

Tropical reforestation & habitat restoration Flora & fauna surveys Wetland mitigation Land use analysis

July 9, 2014

US ARMY CORPS OF ENGINEERS

2014 JUL 10 P 12: 22

WTILLES REGULATORY SECTION RECEIVED

Mr. Sindulfo Castillo
Antilles Regulatory Section
US Army Corps of Engineers
Stop 7½ Antilles Office
400 Fernández Juncos Avenue
San Juan, PR 00901

Re: No Permit Required Notification YFN Yabucoa Solar, LLC Juan Martín Ward PR-53 Yabucoa, Puerto Rico

Dear Mr. Castillo:

YFN Yabucoa Solar, LLC, proposes the sitting, construction and operation of a solar energy project in a parcel of approximately 246 acres located at State Road PR-53, Juan Martín Ward, in the Municipality of Yabucoa. The project site, known as Yabucoa Solar Farm is specifically located at X: 262120.3082 and Y: 224103.7381 (See Figure 1, Wetland Jurisdictional Determination).

The project will have a nameplate capacity of 20 MW AC and consist of 90,072 photovoltaic modules in a 200 generation array. The footprint of the project covers approximately 107.81 acres from the total of 246 acres of the site. Each module will be supported by piles and galvanized steel posts. In addition, the project will include above ground and underground collection lines, gravel/dirt roads, a control and operation building, parking area and on-site power substation. An underground off-site transmission line will be crossing beneath State Road PR-901 finalizing in PREPA's Yabucoa Substation.

According to the Soil Survey of the Humacao Area of Eastern Puerto Rico, nine soil mapping units were identified in the study area: Ad, Aguadilla loamy sand; Cf, Cataño loamy sand; Cr, Coloso silty clay; Me, Maunabo clay; PdF, Pandura-Very stony land complex, 40 to 60 % slopes; PeC2, Pandura clay, 5 to 12 % slopes, eroded; Ta, Talante soils; TeE, Teja gravelly sandy loam, 12 to 40 % slopes; Vw, Vivi loam (Appendix B). Aguadilla loamy sand and Cataño loamy sand are considered to be hydric soils when occurring in depressions and coastal plains respectively. In addition, the following soils are considered hydric in flood plains: Coloso silty clay, Maunabo clay, Talante soils, and Vivi loam.

In relation to the hydrology, the precipitation in this part of the island is within the island's mean average of 70 inches per year. The hydrology of the study area is dominated by local rainfall and runoff from higher areas south and west of the property. Several canals drain the property and adjacent lands eastward. Most of the canals have not been maintained, especially where culverts have been installed. Although the canals are mostly open, several culverts have been installed for crossings. Towards the southeastern portion of site B, a small creek also flows eastward. The creek originates in the mountains south of state road PR-901. Accumulated precipitation in the closest USGS station to the site, for the

last 120 days, (up to June 23, 2014) amounts to approximately 16.2 inches as reported by the USGS Rio Guayanes Hydrologic Unit (http://waterdata.usgs.gov) in a preliminary report.

The project site exhibits typical conditions of pasturelands of the eastern part of Puerto Rico. Vegetation in grazing areas throughout the site is dominated by several grass species including: Guinea grass (Urochloa maxima), Paspalum conjugatum, Paspalum virgatum, Digitaria eriantha, and Eriochloa polystachya. The dominant tree species in open areas are: Spathodea campanulata, Terminalia catappa, and Andira inermis. Semi-open areas include other tree species such as Citharexylum fruticosum, Casearia sylvestris, Tabebuia heterophylla, and Spondias mombin. Several clumps of bamboo (Bambusa vulgaris) also occur on site, especially along a small creek.

Based on considerations of vegetation, soils and hydrology, our investigation of the property found wetland and non-wetland communities in the parcel. Four wetland areas were mapped in Sites A and B (See Wetland Jurisdictional Determination). Although some of them are contiguous, different polygons were assigned depending on the location of the wetland. All of the wetlands are herbaceous and jurisdictional in nature because of the presence of canals that drain into the ocean. Below is a description of each of the wetlands:

Wetland A – This wetland covers approximately 5.13 acres of Site B. It is enclosed for the most part by two canals. The two dominant species are Carib grass and Coco-yam (*Colocasia esculenta*). This area is fenced and most of the fence perimeter is overgrown by woody vegetation.

Wetland B – This wetland covers approximately 5.44 acres of Site B. It is dominated by Cattails, Carib grass and Coco-yam. It is separated from Wetland B by Canal 2. This wetland could be the result of removal of the soil surface for use in another site or water impoundment caused by an existing berm.

**Wetland** C – This wetland covers approximately 9.3 acres of Site B. It is dominated by Carib grass. It is separated to the north from Canal 2 by a dirt and rock fill mound. Wetland C drains into Wetland D by Canal 3.

**Wetland D** – This wetland covers approximately 43.6 acres of Site B. It is dominated by *Cyperus imbricatus*, *Eleocharis interstincta*, and *Eriochloa polystachya* in the northern half. The southeastern section is covered with *Typha*. Ground is very dissected due to the presence of cattle

Several canals and a small creek have been mapped. It is assumed that only if the canal is adjacent to wetlands it is jurisdictional. Below is a description of each of the waters:

Canal 1 – This L-shaped canal originates from a small creek south of Site B. A small bridge on state road PR-901 allows water to flow freely. The canal has a length of 385 m before it joins Canal 2. Width does not exceed 3 m.

Canal 2 – This eastward running canal also originates from a small creek south of PR-901. A bridge crossing is also present. Total length is about 1,534 m. Width averages 2 m. For the most part the channel is covered with emergent vegetation.

Canal 3 – This canal runs across Wetland D and has an approximate length of 418 m. Average width is 2 m. The channel is covered with emergent vegetation.

Canal 4 – This canal is located in the northern perimeter of Site B. It has an approximate length of 518 m. It drains eastward. Emergent vegetation is present.

Canal 5 – This canal is located in Site A along the property boundary with the adjacent tank farm. It has an approximate length of 541 m. It drains towards the southeast. Emergent vegetation is present.

Creek 1 – This creek originates south of PR -901. It seems to be in its natural state. Total length is approximately 847 m with channel width varying from 2 to 4 m. The channel bottom is composed of gravel and sand. Low water flow volumes were observed during the site visits. Well-defined banks are present with woody vegetation developing at the top of the bank.

This study proposes the limits of the USACE jurisdiction over wetlands and waters of the United States found in the project site. Four herbaceous wetland polygons (Wetlands A through D) were identified within the study area. The wetlands comprise 63.5 acres of jurisdictional wetlands. The wetlands have been determined to be jurisdictional since there is a chemical, physical, and biological connection with traditional navigable waters. In addition, jurisdictional waters also include all channel sections adjacent to wetlands and a small, unnamed creek located in the southeast quarter of the property. Finally, no rare, critical or endangered species were observed in the site during fieldwork.

Based on the foregoing, jurisdictional wetlands and the Waters of the U.S. will not be affected or impacted by the proposed project. Therefore, we respectfully request to the U.S. Army Corps of Engineers to issue the corresponding letter indicating that the proposed project is not subject to the Clean Water Act jurisdiction and that a Clean Water Act Section 404 permit is not required. Enclosed please find a copy of the Wetland Jurisdictional Determination and the project layout for your evaluation.

If you have any questions or need further information regarding this project, please contact the undersigned at 787-647-7480 or by email to <a href="mailto:reforest@coqui.net">reforest@coqui.net</a>.

We look forward to receive at your earlier convenience your concurrence with our determination that the project will not affect the Waters of the U.S.

11/4

Alejandro Cubina

c: Mr. Leslie Hufstetler, YFN Yabucoa Solar, LLC

**Enclosures** 



US ARMY CORPS OF ENGINEERS

# WETLAND JURISDICTIONAL DETERMINATION AND ANTILLES REGULATORY SECTION AND

DELINEATION (JD) REPORT FOR YABUCOA SOLAR PARK YABUCOA, PUERTO RICO

#### Submitted to:

U.S. Army Corps of Engineers, Jacksonville District
Antilles Office
400 Fernández Juncos Avenue
San Juan, PR 00901-3299

Submitted by: Reforesta, Inc. PO Box 8972 San Juan, Puerto Rico



# WETLAND JURISDICTIONAL DETERMINATION YABUCOA SOLAR PARK, CAMINO NUEVO WARD YABUCOA, PUERTO RICO

#### **JUNE 2014**

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## WETLAND JURISDICTIONAL DETERMINATION YABUCOA SOLAR PARK, CAMINO NUEVO WARD YABUCOA, PUERTO RICO

#### June 2014

#### SUMMARY

This report describes a Wetland Jurisdictional Determination Study for a parcel of land of approximately 246 acres located in the Camino Nuevo Ward of the Municipality of Yabucoa, Puerto Rico. Access to the property is through highway PR-53. A solar panel plant has been proposed in the study site. The generated energy will be transmitted to the Puerto Rico Electrical and Power Authority (PREPA) grid.

Field data was gathered during four site visits during the month of March 2013 and five visits in May and June 2014. The site is an abandoned sugar cane field, associated to the Central Roig, which has been converted to cattle pasture, with scattered trees. The landscape is primarily flat sloping gradually towards the east towards Lucía beach.

The routine wetland methodology was used to delineate any potential wetlands within the study area. The on-site investigation included an exploratory walk over the entire property and the recording of detailed information regarding the vegetation, soils and the hydrology of the site.

The Corps of Engineers methodology and guidelines were followed for data acquisition (CoE, 1987), including the most recent Caribbean Regional Supplement (2011). Data Forms for Routine Wetland Determination were filled out for each sampling point and are included in Appendix A of this report. Thirty one (31) data points were established during field work. The attached photo shows the location of the points, wetland limits, canals and a creek. The photo has been geo-referenced to geodesic coordinates of Puerto Rico using the North American Datum NAD 1983, Revision of 1997. All data points in the photo can be transferred to the field using this coordinate system and a GPS. Wetland

limits were drawn using a sub-metric GPS for perfect match between the map and the site.

The wetland delineation study shows that there are 63.5 acres of jurisdictional herbaceous wetlands, five canals, and a small unnamed creek.

#### SITE DESCRIPTION AND LAND USE

The site is a parcel of land covering approximately 246 acres, located in the Camino Nuevo ward of the Municipality of Yabucoa. Figure 1 shows a topographic survey of the study site. The parcel is dissected by state road PR-9914. The parcel north of PR-9914 has been designated as Site A, and the, larger, southern tract as Site B.

The site has been under heavy agriculture use for more than a century. These lands were part of the sugar cane fields associated with Central Roig. In the last decades, due to the decline in sugar cane production, the site has been transformed to cattle pastures. Isolated trees are scattered throughout the property, with heavier tree coverage around some water bodies and along some fences.

The site is predominantly flat, with higher elevations (10 to 11 m above msl) in the western and south central portions of Site B. The lowest elevations (1 to 2 m above msl) are found in the eastern third of Site B. Site A also slopes towards the east, ranging from 4 to 3 m above msl. Drainage in Site B is restricted by a fuel tank farm located on the east and state road PR-9914 to the south.

According to the National Wetlands Inventory Map, there are several palustrine emergent wetlands mapped within the study area (Figure 3). The wetland areas are limited to the northeastern corner, and south of the unnamed creek of Site B.

#### **EVALUATION METHOD**

The Routine Wetland Determination method was used to delineate wetland areas in this study. The entire study area and project site were surveyed looking closely at, when present, swamps and wet alluvial land communities within the study area. The following steps were performed during this determination:

- 1. Locate the project area in topographic maps, soil survey and aerial photography.
- 2. Determine whether an atypical situation exists.
- 3. Determine the required number and position of sampling points.
- Characterization parameters:

<u>Vegetation</u>. a) Identify plant community types present, b) determine whether normal environmental conditions are present, c) select representative observation areas, d) characterize each plant community by strata, e) record wetland indicators status of dominant species, f) determine whether hydrophytic vegetation criteria is met.

<u>Soils</u>. Determine whether hydric soils indicators are present at the site.

<u>Hydrology</u>. Examine the observation point for indicators of wetland hydrology at the site.

- 5. Wetland Determination. Examine data form for the observation site and determine whether wetland indicators of all three parameters are, or would normally be, present during a significant portion of the growing season.
- 6. Determine the limits of wetland and upland areas in the property using a GPS.

#### VEGETATION

Vegetation in grazing areas throughout the site is dominated by several grass species including: Guinea grass (*Urochloa maxima*), *Paspalum conjugatum*, *Paspalum virgatum*, *Digitaria eriantha*, and *Eriochloa polystachya*. The dominant tree species in open areas are: *Spathodea campanulata*, *Terminalia catappa*, and *Andira inermis*. Semi-open areas include other tree species such as *Citharexylum fruticosum*, *Casearia sylvestris*, *Tabebuia heterophylla*, and *Spondias mombin*. Several clumps of bamboo (*Bambusa vulgaris*) also occur on site, especially along a small creek.

See the individual data sheets attached in the Appendix of this report for the analysis of the vegetation taken in each sampling point.

#### SOILS

Nine soil mapping units were identified in the study area according to the Soil Survey of the San Juan Area of Puerto Rico (Web Soil Survey, 2013): Ad, Aguadilla loamy sand; Cf, Cataño loamy sand; Cr, Coloso silty clay; Me, Maunabo clay; PdF, Pandura-Very stony land complex, 40 to 60 % slopes; PeC2, Pandura clay, 5 to 12 % slopes, eroded; Ta, Talante soils; TeE, Teja gravelly sandy loam, 12 to 40 % slopes; Vw, Vivi loam (Appendix B).

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#### **HYDROLOGY**

Precipitation in this part of the island is within the island's mean average of 70 inches per year. The hydrology of the study area is dominated by local rainfall and runoff from higher areas south and west of the property. Several canals drain the property and adjacent lands eastward. Most of the canals have not been maintained, especially where culverts have been installed. Although the canals are mostly open, several culverts have been installed for crossings. Towards the southeastern portion of site B, a small creek also flows eastward. The creek originates in the mountains south of state road PR-901.

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#### WETLAND DELINEATION

Based on considerations of vegetation, soils and hydrology, our investigation of the property found wetland and non-wetland communities in the parcel. Four wetland areas were mapped in Sites A and B (Figure 2). Although some of them are contiguous, different polygons were assigned depending on the location of the wetland. All of the wetlands are herbaceous and jurisdictional in nature because of the presence of canals which drain into the ocean. Below is a description of each of the wetlands:

**Wetland A** – This wetland covers approximately 5.13 acres of Site B. It is enclosed for the most part by two canals. The two dominant species are Carib grass and Coco-yam (*Colocasia esculenta*). This area is fenced and most of the fence perimeter is overgrown by woody vegetation.

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#### CONCLUSION

This study proposes the limits of the USACE jurisdiction over wetlands and waters of the United States found in the project site. Four herbaceous wetland polygons (Wetlands A through D) were identified within the study area. The wetlands comprise 63.5 acres of jurisdictional wetlands. The wetlands have been determined to be jurisdictional since there is a chemical, physical, and biological connection with traditional navigable waters. In addition, jurisdictional waters also include all channel sections adjacent to wetlands and a small unnamed creek located in the southeast quarter of the property. Finally, no rare, critical or endangered species were observed in the site during field work.

#### LIST OF PREPARERS

The following people participated in the preparation of this wetland jurisdictional determination:

Mr. Noel Benavides, Field Assistant

Mr. Alejandro Cubiñá, Ecologist

#### REFERENCES

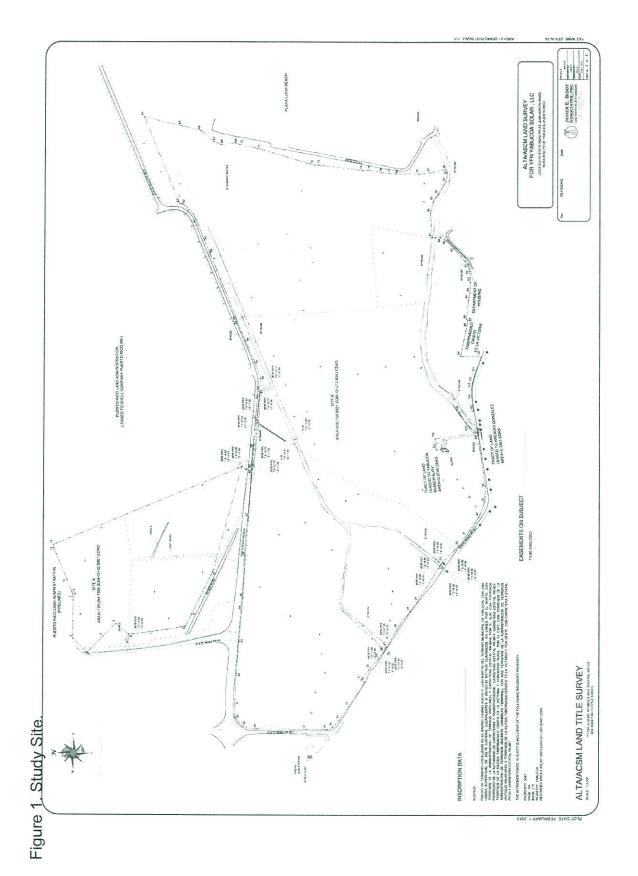
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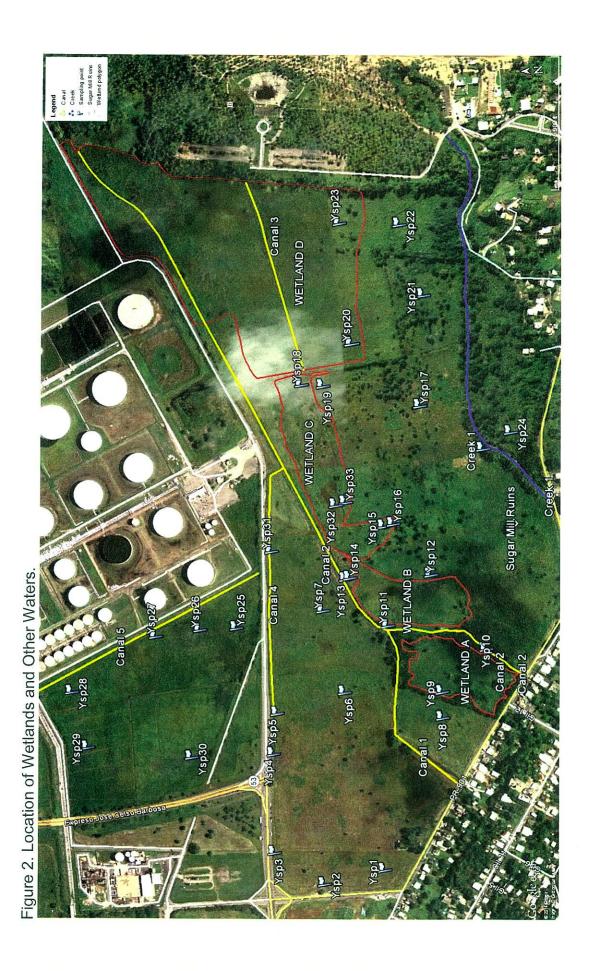
http://plants.usda.gov/java/

http://waterdata.usgs.gov/

http://www.fws.gov/wetlands/

## FIGURES





Estuanne and Marine Deepwater Freshwater Forested/Shrub Nov 28, 2012 Freshwaler Emergent Estuanne and Manne Freshwater Pond Herbaceous Forested/Shrub Non-Digital Wetlands No Data Yabucoa Riparian Digital Digital Lake Other Status This map is by general reference only. The US this and skiddle service is not expondible for the scanacy or currenthess of the base data secure on this map, All preference of the round to use or secondings with the styre medical build on the she shall suppressed the secondings with the styre medical build on M1UB2/AB3L E2F03M National Wetlands Inventory ENUBLX U.S. Fish and Wildlife Service **FEM1A** User Remarks:

Figure 3. National Wetlands Inventory Map.

Figure 4. General Site Photographs.



Photo 1. General view of uplands in Site B.



Photograph 2. General view of Site A.



Photograph 3. View of *Typha* dominated Wetland B.

## **APPENDIX A**

**Data forms for Routine Wetland Determination** 

WETLAND DETERM	INATION DAT	A FORM – Ca	ribbean Islands Region
Project/site: Yabucaq Solar Parl	Municipa	lity/Town: YCL	bucoa Sampling Date: March 7, 201
Applicant/Owner: YFN Yabicog Solo	ar, LLC		PR or USVI: PR or USVI: Sampling Point: VSP1
Investigator(s): A_CODITA	*	Ward/Es	state: <u>Camino NULUO</u>
	65°50'5	9.81	convex, none): $F1a+$ Slope (%):
Are climatic / hydrologic conditions on the site typical for t	his time of year?		
Are Vegetation, Soil, or Hydrology			*Normal Circumstances" present? Yes No
kre Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
			ocations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:	1	Is the Sampled within a Wetlar	Area nd? Yes No
	Alleria	<b>1</b> 58	c),
/EGETATION – Use scientific names of pla	ints.	<del></del>	
Tree Stratum (Plot size:)		minant Indicator	Dominance Test worksheet:
1		100	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2 3			Total Number of Dominant Species Across All Strata: (B)
4. <u></u>			Percent of Dominant Species That Are OBL, FACW, or FAC:
Sepling/Shrub Stratum (Plot size:)	= To	otal Cover	Prevalence Index worksheet:
1		200	Total % Cover of:Multiply by:
2.1			OBL species x 1 =
3			FACW species x 2 =
			FAC species x 3 =
5,			FACU species x 4 =
51	= T	otal Cover	UPL species x 5 =
Herb Stratum (Plot size: )	25	V FACUS	Column Totals: (A) (B)
Passalum Conventum	-30-	FAC	Prevalence Index = B/A =
3. Eliochlos Polystachye	15 1	J TA(W)	Hydrophytic Vegetation Indicators:
Panicom Goun	12 1	1 FACIL	1 Rapid Test for Hydrophytic Vegetation
Dartaria eriantia	10 1	1 FACU	2 - Dominance Test is >50%
Mimose Casta	110 1	1 FACIL	3 - Prevalence Index is ≤3.01
		1 1 1 1	Problematic Hydrophytic Vegetation¹ (Explain)
3.			
Woody Vine Stratum (Plot size:)	100%= T	otal Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			
2			
3			Hydrophytic Vegetation
4	— — — — = Tı	otal Cover	Present? Yes No No

Sampling Point: YSP1

	oth needed to document the indicator or confir	in the absence of indicators.)
Depth Matrix	Redox Features	-g
(inches) Color (moist) %	Color (moist) % Type Loc2	Texture Remarks
0-15 104K3/3 95	1041295 5 C M	LOAMICLAY
		- 0
		8
1-		
Hydric Soil Indicators:	=Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
200 - Control of Science (1990) (1990		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Histic Epipedon (A2)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Black Histic (A3)	Sandy Redox (S5)	Red Parent Material (F21)
Hydrogen Sulfide (A4)	Stripped Matrix (S6) Dark Surface (S7)	Very Shallow Dark Surface (TF12)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Under Call Process Co. No. 1
Remarks:	Table 1	Hydric Soil Present? Yes No
HYDROLOGY		
n i DROLOG i		
NO. OF A CONTROL OF A CONTROL OF THE		
Wetland Hydrology Indicators:		
Wetland Hydrology Indicators: Primary Indicators (minimum of one required	i; check all that apply)	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)	t; check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> </ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Rcots     Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Rcots     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils (C6)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present?  Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present?  Yes 1	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present?  Water Table Present?  Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  6) Geomorphic Position (D2) Shallow Aquitard (D3)
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Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  (B) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Wetl	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  (B) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required and primary Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes 1  Water Table Present? Yes 1  Saturation Present? Yes 1  Saturation Present? Yes 1  (includes capillary fringe)  Describe Recorded Data (stream gauge, mo	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Wetl	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  (B) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required and primary Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes 1  Water Table Present? Yes 1  Saturation Present? Yes 1  Saturation Present? Yes 1  (includes capillary fringe)  Describe Recorded Data (stream gauge, mo	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Wetl	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  (B) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required and primary Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes 1  Water Table Present? Yes 1  Saturation Present? Yes 1  Saturation Present? Yes 1  (includes capillary fringe)  Describe Recorded Data (stream gauge, mo	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Wetl	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  (B) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required and primary Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes 1  Water Table Present? Yes 1  Saturation Present? Yes 1  Saturation Present? Yes 1  (includes capillary fringe)  Describe Recorded Data (stream gauge, mo	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Wetl	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  (B) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required and primary Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6) Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Wetl	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)



Soil pit.



Project/Site: Yabaca Solar Lark Municipality/Town: Yabaca Sampling Date: Ma. Applicant/Owner: YEN Yabaca Solar Lark Ward/Estate: Yawa (No Nueu)  Landform (hillslope, terrace, etc.): Coasta Plain Local relief (concave, convex, none): Flat Slope (%): Lat SOJ 37. 4 Long 06.5 5 CO. 5 Datum NAD 83  Soil Map Unit Name: Plain Long 06.5 5 CO. 5 Datum NAD 83  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 Na 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 feature  Hydrology Present? Yes No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Total Number of Dominant Species That Are OBL, FACW, or FAC: 1. Total Number of Dominant Species That Are OBL, FACW, or FAC: 5. Species Across All Strata: 5. Species Across All	) No
Applicant/Owner: FR YG b Cog Solar LC PR or USVI: R Sampling Point: YST nvestigator(s): A CUB NG Solar LC Ward/Estate: CG W IN D NUE D Landform (hillstope, terrace, etc.): Cog Solar Landform (hillstope, convex, none): Floth Number of Dominant (hillstope, terrace, etc.): Cog Solar Landform (hillstope, convex, none): Floth Number of Dominant (hillstope, terrace, etc.): Cog Solar Landform (hillstope, terrace, etc.): Cog Millstope, etc., etc.	) No
andform (hillstope, terrace, etc.); Coasta Pan Local relief (concave, convex, none); Flat Slope (%): at 18 0 3 3 7 . 4 Long 06 5 5 1 00 . 5 Datum: NAD 83  Soil Map Unit Name: Pe Ca Parcelas Clay Stot 275 Lopes NWI classification: UPLAND  Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (ff no, explain in Remarks.)  Are "Normal Circumstances" present? Yes No (ff needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important feature  Hydrophytic Vegetation Present? Yes No Ves N	No
Long: 0655100.6 Datum: NAD 83  Soll Map Unit Name: Pe Ca Face Ca Day Stotz / Stopes NWI classification: UPLAND 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 (If needed, explain any answers in Remarks.)  SUMMARY OF FINDINGS — Attach site map showing sampling point locations, transects, important feature  Hydrophytic Vegetation Present? Yes No Within a Wetland? Yes No Wetland Hydrology Present? Yes No Within a Wetland? Yes No Tree Stratum (Plot size:    Yes No Wolland Hydrology Present?   Absolute % Cover Species? Status   Status	No
Soil Map Unit Name: Pe C3	No
re Vegetation, Soil, or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No No No Is the Sampled Area within a Wetland? Yes No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No No No No	
Tree Stratum (Plot size:) Absolute	
Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Vegetation Present? Hydrophytic Soil Present? Welland Hydrology Present? Welland Hydrology Present?  Welland Hydrology Present?  Welland Hydrology Present?  Welland Hydrology Present?  Welland Hydrology Present?  Welland Hydrology Present?  Welland Hydrology Present?  Welland Hydrology Present?  Welland Hydrology Present?  Welland?  Welland?  Welland?  Wes	es, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Wetland Hydrology Present?  Yes No Within a Wetland?  Yes No Vital Strate of Dominant Species That Are OBL, FACW, or FAC:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species That Are OBL, FACW, or FAC:	es, etc.
Hydric Soil Present?  Wetland Hydrology Present?  Yes No Within a Wetland?  Yes No Within a Wetl	
/EGETATION – Use scientific names of plants.    Tree Stratum (Plot size:)	
Absolute % Cover Species? Status Dominant Indicator Species? Status Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  = Total Cover	
Tree Stratum (Plot size:)	
3Species Across All Strata:  4	_ (A)
5 = Total Cover	_ (B)
	(A/B)
ONUMBRIO OF STREET	
1 Total % Cover of: Multiply by:	
2 OBL species x 1 =	_
3 FACW species x 2 = FAC species x 3 =	-
4	5
= Total Cover UPL species x 5 =	
Herb Stratum (Plot size: 5 ) Column Totals: 100 (A) 380	(B)
1. Digitaria eriantra 80 1 taco 2. Factum conjugatum 20 V FAC Prevalence Index = B/A = 3.8	
2. tastum con Jagatum	
1 - Rapid Test for Hydrophytic Vegetation	
2 - Dominance Test is >50%	
6 3 - Prevalence Index is ≤3.01	
7 Problematic Hydrophytic Vegetation (Expl	ain)
8	
Woody Vine Stratum (Plot size:)    CO /O = Total Cover	must
1	
3 Hydrophytic	
Vegetation	
= Total Cover Present? Yes No	Y2

	V/27
Sampling Point:	1512

	oth needed to document the indicator or con	min the absence of maleuters.
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type¹ Loc	
U-15 109129/3 100		LOAMYCLA
• • • • • • • • • • • • • • • • • • • •		
3		<del></del>
	=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> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6) 5 cm Mucky Mineral (A7)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
		annos distarba di problemato.
Restrictive Layer (if observed):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks: EARTHWORN	LC DO ECENT	
BRICK FRA	GMENIK	
	2113	
=		
HYDROLOGY		
HYDROLOGY  Wetland Hydrology Indicators:	-	
	d; check all that apply)	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	d; check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one require		
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)	<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li><li>Hydrogen Sulfide Odor (C1)</li></ul>	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rc Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (BFIeld Observations:  Surface Water Present?  Water Table Present?  Yes  Water Table Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (BFIeld Observations:  Surface Water Present?  Water Table Present?  Yes  Water Table Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  [includes capillary fringe)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  [includes capillary fringe)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B)  Field Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  [includes capillary fringe)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Berled Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Berled Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B)  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, m.)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Berled Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Berled Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches): Venitoring well, aerial photos, previous inspection	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)



Soil pit.



General view of the observation point.

#### WETLAND DETERMINATION DATA FORM - Caribbean Islands Region ovcog Solar Project Municipality/Town: Yabucca sampling Date: March 7, 2013 Ward/Estate: Camino nuevo Investigator(s): Landform (hillslope, terrace, etc.): Coastal Plain Local relief (concave, convex, none): + lat Slope (%): 065°50'58.0 Datum Long: Soil Map Unit Name: VW VIVI Loam NWI classification: No \_\_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes 1 Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes 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 Is the Sampled Area Hydric Soil Present? Yes No within a Wetland? Wetland Hydrology Present? Yes Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator % Cover Species? Status Dominance Test worksheet: Tree Stratum (Plot size: \_\_\_\_\_) Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: \_\_\_ = Total Cover Sapling/Shrub Stratum (Plot size: \_\_\_\_\_) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_ UPL species \_\_\_\_ \_\_\_ x 5 = \_\_\_ = Total Cover Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B) Prevalence Index = B/A = \_\_\_ Hydrophytic Vegetation Indicators: \_\_ 1 - Rapid Test for Hydrophytic Vegetation √2 - Dominance Test is >50% \_\_ 3 - Prevalence Index is ≤3.01 Problematic Hydrophytic Vegetation (Explain) 100% = Total Cover Indicators of hydric soil and wetland hydrology must

Remarks:

Woody Vine Stratum (Plot size: \_\_\_\_\_)

be present, unless disturbed or problematic.

Hydrophytic Vegetation Present?

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Profile Description: (Describe to the dep	th needed to document the indicator of	or confirm the absence of indicators.)			
Depth Matrix	Redox Features				
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc Texture Remarks			
0-13 104K4/3 100		SILTYCLAY			
			min- year		
IT C-Otti B-Dti BM	- Dadward Makiii MC Marked Card Card	ins. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.			
Type: C=Concentration, D=Depletion, RM: Hydric Soil Indicators:	=Reduced Matrix, MS=Masked Sand Gra	Indicators for Problematic Hydric Soils <sup>3</sup> :			
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)			
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)			
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)			
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)			
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)				
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	3 Indicators of hydrophytic vacatatics and			
<ul> <li>Muck Presence (A8)</li> <li>Depleted Below Dark Surface (A11)</li> </ul>	Redox Dark Surface (F6) Depleted Dark Surface (F7)	wetland hydrology must be present,	Indicators of hydrophytic vegetation and		
Thick Dark Surface (A11)	Redox Depressions (F8)	unless disturbed or problematic.			
Restrictive Layer (if observed):					
Type:					
Depth (inches):		Hydric Soil Present? Yes No _	1		
Domorko:		,			
VERY COMPAC	TED SOIL				
VERY COMPACEARTHWORM	45				
BRICKFRAGM	ENIK				
HYDROLOGY					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one required	d; check all that apply)	Secondary Indicators (minimum of two rec	quirec		
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)			
High Water Table (A2)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface	e (B8)		
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)			
Water Marks (B1)	Oxidized Rhizospheres on Living	ng Rcots (C3) Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Presence of Reduced Iron (C4)		(C9)		
Drift Deposits (B3)	Recent Iron Reduction in Tiller	Secretary of the second secretary of the second secretary of the second			
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Shallow Aquitard (D3)			
Iron Deposits (B5)	Fiddler Crab Burrows (C10)	FAC-Neutral Test (D5)			
Inundation Visible on Aerial Imagery (B	7) Other (Explain in Remarks)				
Field Observations:	u / 5 0 6 1 1				
n 25 wa 40 20 20 20 3	No V Depth (inches):				
Water Table Present? Yes	NoDepth (inches):	-   N. W 111 - 1 - 1 - 1 - 1 - 2 - 1 - 1 - 1 -	11		
Saturation Present? Yes (includes capillary fringe)	No Depth (inches):	Wetland Hydrology Present? Yes No _	V		
Describe Recorded Data (stream gauge, mo	onitoring well, aerial photos, previous ins	pections), if available:			
Remarks:					





WETLAND DETERM	INATION DA	ATA FORM - Ca	ribbean Islands Reg	jion
Project/Site: Yabycoa Solar Par	Munic	ipality/Town: Yak	00009	Sampling Date: March 7
Applicant/Owner: YFN Yabucog Sol			PR or USVI: PR	17.3
Investigator(s): A. Cubing	1-11/	3	tate: Camino	
Landform (hillslope, terrace, etc.): Coastal Lat: 180240 Long: C	065°50	ocal relief (concave, c	onvex, none): <u>F1q+</u> 	Slope (%):
Soil Map Unit Name: CF, CO OSO ST	ty Cla	4	NWI classifica	ation: <u>Upland</u>
Are climatic / hydrologic conditions on the site typical for	this time of year	Yes No_	(If no, explain in Re	marks.)
Are Vegetation, Soil, or Hydrology	_significantly di	sturbed? Are "	Normal Circumstances" pr	resent? Yes No
Are Vegetation, Soil, or Hydrology	_naturally probl	ematic? (If ne	eded, explain any answer	s in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	p showing s	ampling point le	ocations, transects,	important features, etc.
1/	No	Is the Sampled within a Wetlan	Area	No V
11	v4)14	2.6	9	
VEGETATION – Use scientific names of pla				
Tree Stratum (Plot size:)		Dominant Indicator Species? Status	Dominance Test works	I I
1			Number of Dominant Sp That Are OBL, FACW, o	
2			Total Number of Domina	ant I
3			Species Across All Strat	
4			Percent of Dominant Sp That Are OBL, FACW, o	
Sapling/Shrub Stratum (Plot size:)	=	: Total Cover	Prevalence Index work	sheet:
1			Total % Cover of:	Multiply by:
2			OBL species	x 1 =
3			FACW species	x 2 =
4	E CONTRACTOR OF THE SECOND		C MAN MANAGEMENT N	x 3 =
5			or seekoorto indoorgaaleerios catal consentration	x 4 =
Herb Stratum (Plot size:		= Total Cover	(65) 102(EM) (12(2)(CM) 13)	x 5 =
1. Posalum conjugatum 2. Commeling Viffusa	70	Y FAC N FAC	The second secon	(A) (B) = B/A =
3. Mimosa casta	_15	N FACIN	Hydrophytic Vegetatio	
4			1 - Rapid Test for H	
5			1/2 - Dominance Test	
6			3 - Prevalence Inde	x is ≤3.0° hytic Vegetation¹ (Explain)
7		<del></del>	Problematic Hydrop	nytic vegetation (Explain)
Woody Vine Stratum (Plot size:)		: Total Cover	<sup>1</sup> Indicators of hydric soil be present, unless distu	and wetland hydrology must rbed or problematic.
1,				
2				
			Hydrophytic Vegetation	
4		: Total Cover	Present? Yes	No
Remarks:			L	

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0	u	ı	L.

Sampling Point: VSP +

Profile Description: (Describe to the dep	oth needed to document the indicator o	or confirm the	e absence of indicators.)
DepthMatrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-16 109K3/2 100	<u> </u>	<u> </u>	iltyclay
			7 0
<sup>1</sup> Type: C=Concentration, D=Depletion, RM	=Reduced Matrix, MS=Masked Sand Gra	ins.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:			Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)		Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)		Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)		Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)		Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)		
5 cm Mucky Mineral (A7) Muck Presence (A8)	Depleted Matrix (F3) Redox Dark Surface (F6)		SIndicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)		unless disturbed or problematic.
Restrictive Layer (if observed):			
Type:		١.	Hydric Soil Present? Yes No
Depth (inches):			Tydric Soil Fresent? TesNo
Remarks:	MS PLESENT		
EAZIMWOZ	WS ( RUSCI V (		
HYDROLOGY	WILLIAM TO THE TOTAL THE TOTAL		
Wetland Hydrology Indicators:			the state of the s
Primary Indicators (minimum of one require	ed: check all that apply)		Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Leaves (B9)		Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)		Sparsely Vegetated Concave Surface (B8)
Saturation (A3)	Hydrogen Sulfide Odor (C1)		Drainage Patterns (B10)
Water Marks (B1)	Oxidized Rhizospheres on Liv	ing Roots (C3	The second second second
Sediment Deposits (B2)	Presence of Reduced Iron (C4	- 177 C	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Recent Iron Reduction in Tiller		Geomorphic Position (D2)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)		Shallow Aquitard (D3)
Iron Deposits (B5)	Fiddler Crab Burrows (C10)		FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (E			
Field Observations:		T	
Surface Water Present? Yes	No Depth (inches):		
Water Table Present? Yes			
	No Depth (inches):		d Hydrology Present? Yes No
(includes capillary fringe)	No_v Depth (inches):	_ vvectario	Trydrology 11030itti 103 100g
Describe Recorded Data (stream gauge, m	onitoring well, aerial photos, previous ins	pections), if a	vailable:
Remarks:			



Soil pit.



General view of the observation point.

WETLAND DETERMINATION DATA FORM - Caribbean Islands Region Municipality/Town: Yables \_\_\_\_ Sampling Date: Applicant/Owner: YFA Sampling Point: Ward/Estate: Camino nuevo Investigator(s): Dain Local relief (concave, convex, none): Flat Landform (hillslope, terrace, etc.): \_\_\_\_( Long: 065 50 48.0 \_\_\_\_ Datum: NAD 83 Lat: 18°02 '395 Soil Map Unit Name: Me, Maynabo Clay \_\_\_\_ NWI classification: \_ 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 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? Is the Sampled Area Yes \_\_\_\_\_ No \_\_\_ Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: \_\_\_\_\_) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: Sapling/Shrub Stratum (Plot size: \_\_\_\_\_) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_ x 1 = \_ FACW species \_\_\_\_\_ x 2 = \_\_\_ FAC species x 3 = FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ = Total Cover Herb Stratum (Plot size: Column Totals: \_\_\_ \_\_\_\_ (A) \_\_\_\_ (B) 1. taspalum Coni 2. Mimosa cadte Prevalence Index = B/A = Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must = Total Cover be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: \_\_\_\_\_) Hydrophytic Vegetation Present? = Total Cover Remarks:

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Sampling Point:	YST5	ł

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)			
Depth Matrix Redox Features	_		
(inches) Color (moist) % Color (moist) % Type Loc²	Texture Remarks		
0-16 10YR3/2 100	CLAY		
	M & American Company		
12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0		
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.	Location: PL=Pore Lining, M=Matrix.		
Hydric Soil Indicators:	Indicators for Problematic Hydric Soils <sup>3</sup> :		
Histosol (A1) Sandy Gleyed Matrix (S4)	Stratified Layers (A5)		
Histic Epipedon (A2) Sandy Redox (S5)	Red Parent Material (F21)		
Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7)	Very Shallow Dark Surface (TF12)		
Aydrogen Sunide (A4) Dark Sunide (S7) Organic Bodies (A6) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)		
5 cm Mucky Mineral (A7) — Depleted Matrix (F3)			
Muck Presence (A8) Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and		
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	wetland hydrology must be present,		
Thick Dark Surface (A12)  Redox Depressions (F8)	unless disturbed or problematic.		
Restrictive Layer (if observed):			
Type:			
Depth (inches):	Hydric Soil Present? Yes No		
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators:			
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)		
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)		
High Water Table (A2) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)		
Saturation (A3) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)		
Water Marks (B1) Oxidized Rhizospheres on Living Rco	ts (C3) Dry-Season Water Table (C2)		
Sediment Deposits (B2)  Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)		
Drift Deposits (B3)  Recent Iron Reduction in Tilled Soils (			
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Shallow Aquitard (D3)		
Iron Deposits (B5) Fiddler Crab Burrows (C10)	FAC-Neutral Test (D5)		
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	The House rest (20)		
Field Observations:			
Water Table Present? Yes No Depth (inches):			
Saturation Present? Yes V No Depth (inches): 6' Wi (includes capillary fringe)	etland Hydrology Present? Yes No		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections	s), if available:		
Remarks:			



Soil pit.



General view of the observation point.

WETLAND DETERMINATION DATA FORM - Caribbean Islands Region Municipality/Town: Yabuca Sampling Date: //\a Applicant/Owner: Y7 Ward/Estate: Camino nuevo Investigator(s): PalMocal relief (concave, convex, none): Flat Landform (hillslope, terrace, etc.): \_\_\_ Long: 065°50'46.9 Datum: NAD83 Soil Map Unit Name: \_\_\_\_ NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes \_ \_\_\_\_ (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: \_ % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: 70 = Total Cover Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: \_ Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_\_ FAC species x 3 = FACU species = Total Cover UPL species Herb Stratum (Plot size: Column Totals: \_ (A) \_\_\_\_\_ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: Mimosa caste \_\_ 1 - Rapid Test for Hydrophytic Vegetation Panicum laxum 2 - Dominance Test is >50% \_\_\_ 3 - Prevalence Index is ≤3.01 Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) 100 Indicators of hydric soil and wetland hydrology must = Total Cover be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: Hydrophytic Vegetation Present? = Total Cover Remarks:

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Sampling Point:	1216

Profile Description: (Describe to the depth needed to document the indicator or con	nfirm the absence of indicators.)
Depth Matrix Redox Features	<del></del>
(inches) Color (moist) % Color (moist) % Type Loc	• 1 · · · · · · · · · · · · · · · · · ·
0-17 10YR 3/3 100	- SIHy clay
<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> :
Histosol (A1) Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2) Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3) Stripped Matrix (S6) Hydrogen Sulfide (A4) Dark Surface (S7)	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Hydrogen Sulfide (A4)	Guisi (Explain in Nemairs)
Organic Bodies (A6) Edainy Gleyed Matrix (F2) Depleted Matrix (F3)	
Muck Presence (A8)  — Bedox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)  Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12) Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):	
Туре:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks:	
L	•
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of the control of
Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Water Marks (B1) Oxidized Rhizospheres on Living Re	
Sediment Deposits (B2) Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3) Recent Iron Reduction in Tilled Soil.	ls (C6) Geomorphic Position (D2) Shallow Aguitard (D3)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Iron Deposits (B5) Fiddler Crab Burrows (C10)	► LWC-Mential Legi (D2)
Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks)	<u> </u>
Field Observations:  Surface Water Present? Yes No Depth (inches):	
Water Table Present? Yes No Depth (inches):	
	Wetland Hydrology Present? Yes No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspection	ons), if available:
Remarks:	
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Soil pit.



WETLAND DETERMINATION DATA FORM - Caribbean Islands Region Municipality/Town: Yabucea Sampling Date: Marc Applicant/Owner: Ward/Estate: Camino Nuevo Investigator(s): A. Cubino Landform (hillslope, terrace, etc.): Coa Sta Local relief (concave, convex, none): \_\_f late 50'49.3" Datum: NAD 83 NWI classification: Soil Map Unit Name: No\_\_\_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes 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? Is the Sampled Area Hydric Soil Present? \_ No\_ within a Wetland? Wetland Hydrology Present? Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: \_\_\_\_\_) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: = Total Cover Sapling/Shrub Stratum (Plot size: \_\_\_\_\_) Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_\_ x 1 = \_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_ UPL species \_\_\_\_\_ x 5 = \_\_ = Total Cover Herb Stratum (Plot size Column Totals: \_\_\_\_ (A) Prevalence Index = B/A = \_\_\_ Hydrophytic Vegetation Indicators: FACIL \_\_ 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% 3 - Prevalence Index is ≤3.01 Problematic Hydrophytic Vegetation (Explain) Indicators of hydric soil and wetland hydrology must = Total Cover be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: \_\_\_\_\_) Hydrophytic Vegetation Present? = Total Cover Remarks:

US Army Corps of Engineers

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Sampling Point:	1514

Profile Description: (Describe to the depth	needed to document the indicator or co	nfirm the absence of indicators.)
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type Lo	
10-17 104R3/2 100		LoanyClay
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=F	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> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
		III III III III III III III III III II
Remarks:		
1		
HYDROLOGY	,	
HYDROLOGY  Wetland Hydrology Indicators:		
	check all that apply)	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;	check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)	<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li></ul>	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li><li>Hydrogen Sulfide Odor (C1)</li></ul>	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living R	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Relation (C4)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Reference of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soi	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living R     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soi	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cools (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cools (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cools (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cools (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes No	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Yes Yes Now Yes No	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cools (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present? Yes Now Now Yes Yes Yes Now Yes Yes Yes Now Yes Yes Yes Now Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Yes Yes Now Yes No	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present? Yes Now Now Yes Yes Yes Now Yes Yes Yes Now Yes Yes Yes Now Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No



Soil pit.



#### WETLAND DETERMINATION DATA FORM - Caribbean Islands Region Municipality/Town: Yabuca Sampling Date: PR or USVI: Sampling Point: Applicant/Owner Ward/Estate: Camino nuevo Investigator(s): Landform (hillslope, terrace, etc.): Loastal dain Local relief (concave, convex, none): Flat Long: 065°50'493 Datum: NAD 83 Lat: 1802,28.3 glante Soile NWI classification: Soil Map Unit Name: \_\_\_ (If no, explain in Remarks.) Are climatic / hydrologic conditions on the site typical for this time of year? Yes\_ Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? No Remarks: VEGETATION – Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: \_\_\_\_\_) % Cover Species? Status Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: \_ = Total Cover Sapling/Shrub Stratum (Plot size: \_\_\_\_\_) Prevalence Index worksheet: Total % Cover of: OBL species FACW species 10 FAC species \_ FACU species UPL species = Total Cover Herb Stratum (Plot size: Column Totals: 100 (A) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50% \_\_ 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation (Explain) 100% = Total Cover <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: Hydrophytic Vegetation

= Total Cover

Present?

Remarks:

Sampling Point: YSP8

Profile Description: (Describe to the depth	needed to document the indicator or cor	firm the absence of indicators.)
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (maist) % Type Loc	
0-17 109R3/4 100		SANDICLAY
	<del></del>	<del></del>
		<del></del>
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=R	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> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2) Black Histic (A3)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3) Hydrogen Sulfide (A4)	Stripped Matrix (S6) Dark Surface (S7)	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	Office (Explain in Remarks)
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Туре:	_	
Depth (inches):	<u> </u>	Hydric Soil Present? Yes No
Remarks:		
The rest of the second		
A CONTRACTOR OF THE PROPERTY O		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required;	check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Water Marks (B1)	Oxidized Rhizospheres on Living Rc	ots (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	(C6) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Iron Deposits (B5)	Fiddler Crab Burrows (C10)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7)	Other (Explain in Remarks)	
Field Observations:	1.7	
Surface Water Present? Yes No	Depth (inches):	
Water Table Present? Yes No	Depth (inches):	
Saturation Present? Yes No	Depth (inches): V	Vetland Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, moni	itaring well, pariel photos, provious increatio	ac) if evallable:
Describe Recorded Data (stream gauge, moni	toring well, aerial photos, previous inspectio	ns), if available:
Damarka		
Remarks:		



Soil pit.



General view of the observation point.

WETLAND DETERMINATION DATA	A FORM – Cari	ibbean Islands Region			
Project/Site: Yabucoa Solar Park Municipa	lity/Town: Yab	ocoa sampling Date: March 12, 2013			
Project/Site: Yabucoa Solar Fark Municipality/Town: Yabucoa Sampling Date: March 12, 201  Applicant/Owner: YFN Yabucoa Solar LLC PR or USVI: PR Sampling Point: YSP9					
Investigator(s): A Cubina Ward/Estate: Camino nuevo					
Landform (hillslope, terrace, etc.): COQ StQ DQ N Local relief (concave, convex, none): FQ + to Concave Slope (%):					
Lat: 18 02 28 2 Long: 065°50	~1	Datum: NAD 83			
Soil Map Unit Name: Ta Talante Soil S		NWI classification: Up land			
Are climatic / hydrologic conditions on the site typical for this time of year?	YesNo	(If no, explain in Remarks.)			
Are Vegetation, Soil, or Hydrology significantly distur		Iormal Circumstances" present? Yes No			
Are Vegetation, Soil, or Hydrology naturally problem		eded, explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach site map showing san		cations transects important features etc			
Solvinari or Findings - Attach site map showing san		cations, transects, important reacties, etc.			
Hydrophytic Vegetation Present? Yes No	Is the Sampled A	Area			
Hydric Soil Present? Yes No No	within a Wetland	i? Yes No			
Wetland Hydrology Present? Yes No  Remarks:	L				
regularis.					
1					
VEGETATION – Use scientific names of plants.					
	minant Indicator	Dominance Test worksheet:			
	ecies? Status	Number of Dominant Species			
1		That Are OBL, FACW, or FAC: (A)			
2		Total Number of Dominant			
3		Species Across All Strata: (B)			
5		Percent of Dominant Species			
	otal Cover	That Are OBL, FACW, or FAC: (A/B)			
Sapling/Shrub Stratum (Plot size:)	ordi Govoi	Prevalence Index worksheet:			
1		Total % Cover of: Multiply by:			
2		OBL species x 1 =			
3		FACW species x 2 = FAC species x 3 =			
4	<del></del>	FACU species x 4 =			
	otal Cover	UPL species x 5 =			
Herb Stratum (Plot size:	1 50	Column Totals: (A) (B)			
1. Colocasia esculenta 50	- UBC	Providence in the second secon			
2. Enachloa polystachya DO 9	TACIN	Prevalence Index = B/A =			
3		Hydrophytic Vegetation Indicators:			
4		2 - Dominance Test is >50%			
6		3 - Prevalence Index is ≤3.01			
7,		Problematic Hydrophytic Vegetation¹ (Explain)			
8					
=To	otal Cover	Indicators of hydric soil and wetland hydrology must			
Woody Vine Stratum (Plot size:)		be present, unless disturbed or problematic.			
1					
2		Hydrophytic			
4		Vegetation			
	otal Cover	Present? Yes No			
Remarks:					
2 2	1912	a.			

C	^	11
•	v	ш.

Sampling Point: \SPQ

Profile Description: (Describe to the depth	needed to document the indicator or confir	in the absence of indicators.
Depth <u>Matrix</u>	Redox Features	
(inches) Color (moist) %	Color (moist) % Type Loc2	Texture Remarks
0-4 109/23/, 100		Sandy Clay
14-16 25125/100		Clary
		<u></u>
¹Type: C=Concentration, D=Depletion, RM=Re	educed Matrix MS=Masked Sand Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	sacoca massic, mo-masica dana diams.	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	e
Muck Presence (A8)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)     Thick Dark Surface (A12)	Depleted Dark Surface (F7) Redox Depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
To consular states of a reset should be submitted about the state of t	Redox Depressions (F0)	amess disturbed of problematic.
Restrictive Layer (if observed):		
Туре:		
Depth (inches):	_	Hydric Soil Present? Yes No
Remarks:	ORMS IN TOP 4"	•
EGETHW	SIZMS IN (OI 9	
l .		
HYDROLOGY		
HYDROLOGY  Wetland Hydrology Indicators:		
	heck all that apply)	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	heck all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; c	SONOTO: STUDIE OF BOTH WINDS	SECULO SECULO SECULO SECULO SE SECULO SE SECULO SE
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C4) Thin Muck Surface (C7)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present?  Yes  No	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
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Soil pit.



WETLAND DETERMINATION DATA FORM - Caribbean Islands Region \_\_\_ Sampling Date: Municipality/Town: Applicant/Owner: \_ Sampling Point: \_ Ward/Estate: \_\_C amino nuevo Investigator(s): Landform (hillslope, terrace, etc.): Local relief (concave, convex, none): \_ Soil Map Unit Name: 19, 10, 10, 10, 10 NWI classification: Are climatic / hydrologic conditions on the site typical for this time of year? Yes (If no, explain in Remarks.) Are Vegetation \_\_\_\_\_, Soil \_\_\_\_\_, or Hydrology \_\_\_\_\_ significantly disturbed? Are "Normal Circumstances" present? Yes ( 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? Is the Sampled Area Hydric Soil Present? within a Wetland? Wetland Hydrology Present? Yes No 1 Remarks: VEGETATION - Use scientific names of plants. Absolute Dominant Indicator Dominance Test worksheet: Tree Stratum (Plot size: Status Number of Dominant Species Terminglia catapa FACO That Are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: (B) NL Percent of Dominant Species NC That Are OBL, FACW, or FAC: = Total Cover Prevalence Index worksheet: Sapling/Shrub Stratum (Plot size: Total % Cover of: Multiply by: OBL species FACW species FAC species FACU species \_ = Total Cover UPL species Herb Stratum (Plot size Column Totals: 1 40 Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation \_\_\_ 2 - Dominance Test is >50% \_\_ 3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must 40 = Total Cover be present, unless disturbed or problematic. Woody Vine Stratum (Plot size: Hydrophytic Vegetation Present? = Total Cover Remarks:

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	VCD	100
Sampling Point:	101	

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Depth Matrix	Redox Features	<del></del>		
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
6-18 10423/3 100			SANDYCLAY	
<u> </u>				
			- X	
The state of the s				
<sup>1</sup> Type: C=Concentration, D=Depletion, R	M=Reduced Matrix, MS=Masked Sand Gra	ins.		ore Lining, M=Matrix.
Hydric Soil Indicators:			Indicators for Pro	blematic Hydric Soils³:
Histosol (A1)	Sandy Gleyed Matrix (S4)		Stratified Laye	
Histic Epipedon (A2)	Sandy Redox (S5)		Red Parent Ma	
Black Histic (A3)	Stripped Matrix (S6)			Dark Surface (TF12)
— Hydrogen Sulfide (A4) Organic Bodies (A6)	<pre> Dark Surface (S7) Loamy Gleyed Matrix (F2)</pre>		Other (Explain	in Remarks)
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)			
Muck Presence (A8)	Redox Dark Surface (F6)		<sup>3</sup> Indicators of hydro	phytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)			ogy must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)		unless disturbe	d or problematic.
Restrictive Layer (if observed):				
Type:				
Depth (inches):			Hydric Soil Presen	1? Yes No
Remarks:	THE RESERVE OF THE PROPERTY OF		,	
SHADED ARE	$\gamma$			
THERMARE	H			
HYDROLOGY				
HYDROLOGY  Wetland Hydrology Indicators:				
	ired; check all that apply)		Secondary Indic	ators (minimum of two required)
Wetland Hydrology Indicators:	ired; check all that apply) Water-Stained Leaves (B9)	7	<u>Secondary Indic</u> Surface Soi	
Wetland Hydrology Indicators: Primary Indicators (minimum of one requi			Surface Soi	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi Surface Water (A1)	Water-Stained Leaves (B9)		Surface Soi Sparsely Ve	Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	ng Roots (	Surface Soi Sparsely Ve Drainage Pa	Cracks (B6) getated Concave Surface (B8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one requi  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li><li>Hydrogen Sulfide Odor (C1)</li></ul>		Surface Soi Sparsely Ve Drainage Pe	Cracks (B6) getated Concave Surface (B8) atterns (B10)
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Wetland Hydrology Indicators:  Primary Indicators (minimum of one required of the primary Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge,	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livi Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller Thin Muck Surface (C7) Fiddler Crab Burrows (C10) (B7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	) d Soils (C6)	Surface Soi Sparsely Ve Drainage Pa C3) Dry-Season Saturation \ Geomorphic Shallow Aqı FAC-Neutra	Cracks (B6) getated Concave Surface (B8) atterns (B10) Water Table (C2) //isible on Aerial Imagery (C9) Position (D2) uitard (D3) I Test (D5)
Primary Indicators (minimum of one requi  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery Field Observations: Surface Water Present? Yes Water Table Present? Yes Saturation Present? Yes (includes capillary fringe)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livi Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller Thin Muck Surface (C7) Fiddler Crab Burrows (C10) (B7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	) d Soils (C6)	Surface Soi Sparsely Ve Drainage Pa C3) Dry-Season Saturation \ Geomorphic Shallow Aqı FAC-Neutra	Cracks (B6) getated Concave Surface (B8) atterns (B10) Water Table (C2) //isible on Aerial Imagery (C9) Position (D2) uitard (D3) I Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required of the primary Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge,	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livi Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller Thin Muck Surface (C7) Fiddler Crab Burrows (C10) (B7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	) d Soils (C6)	Surface Soi Sparsely Ve Drainage Pa C3) Dry-Season Saturation \ Geomorphic Shallow Aqı FAC-Neutra	Cracks (B6) getated Concave Surface (B8) atterns (B10) Water Table (C2) //isible on Aerial Imagery (C9) Position (D2) uitard (D3) I Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required of the primary Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge,	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livi Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller Thin Muck Surface (C7) Fiddler Crab Burrows (C10) (B7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	) d Soils (C6)	Surface Soi Sparsely Ve Drainage Pa C3) Dry-Season Saturation \ Geomorphic Shallow Aqı FAC-Neutra	Cracks (B6) getated Concave Surface (B8) atterns (B10) Water Table (C2) //isible on Aerial Imagery (C9) Position (D2) uitard (D3) I Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required of the primary Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge,	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livi Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller Thin Muck Surface (C7) Fiddler Crab Burrows (C10) (B7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	) d Soils (C6)	Surface Soi Sparsely Ve Drainage Pa C3) Dry-Season Saturation \ Geomorphic Shallow Aqı FAC-Neutra	Cracks (B6) getated Concave Surface (B8) atterns (B10) Water Table (C2) //isible on Aerial Imagery (C9) Position (D2) uitard (D3) I Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required of the primary Indicators)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery  Field Observations:  Surface Water Present? Yes  Water Table Present? Yes  Saturation Present? Yes  (includes capillary fringe)  Describe Recorded Data (stream gauge,	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Livi Presence of Reduced Iron (C4 Recent Iron Reduction in Tiller Thin Muck Surface (C7) Fiddler Crab Burrows (C10) (B7) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	) d Soils (C6)	Surface Soi Sparsely Ve Drainage Pa C3) Dry-Season Saturation \ Geomorphic Shallow Aqı FAC-Neutra	Cracks (B6) getated Concave Surface (B8) atterns (B10) Water Table (C2) //isible on Aerial Imagery (C9) Position (D2) uitard (D3) I Test (D5)



Soil pit.



General view of the observation point.

Project/Site: Yabuca Solar Park  Applicant/Owner: A. Cub; Na Investigator(s): A. Waling		ity/Town: <u>Yak</u>	*A A
Landform (hillslope, terrace, etc.): Coasta Dair Lat: 18 02 31, 4 Long: 065	5°50	relief (concave, c	onvex, none): Flat Slope (%):
			. /
Are Vegetation, Soil, or Hydrology signification			Normal Circumstances" present? Yes No No
Are Vegetation, Soil, or Hydrology naturally	y problema	atic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map show	ing sam	npling point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?  Remarks:  No Yes No No No		Is the Sampled within a Wetlar	1
VEGETATION – Use scientific names of plants.		*	
Abso	dute Don	ninant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) <u>% C</u> 1		ecies? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
3			Total Number of Dominant Species Across All Strata: (B)
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)  1	= To	tal Cover	Prevalence Index worksheet:  Total % Cover of: Multiply by:
			OBL species x 1 =
2			FACW species x 2 =
3			FAC species x 3 =
			FACU species x 4 =
D			UPL species x 5 =
Herb Stratum (Plot size: 5 )	= 10	otal Cover	Column Totals: (A) (B)
1. Colocasia esculenta 5	0 7	OBL	Column Totals(A)(B)
2. Priochlog, solystachya 3	0 4	FACW	Prevalence Index = B/A =
4			Hydrophytic Vegetation Indicators:
6			Problematic Hydrophytic Vegetation (Explain)
7			
Woody Vine Stratum (Plot size:)	)O_= To		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			
2			Hydrophytic
3			Hydrophytic Vegetation
4		tol Cover	Present? Yes No
Pemarke	= 10	tal Cover	
Remarks:			

Sampling Point: YSP 1

Profile Des	scription: (Describe	e to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of ir	ndicators.)	
Depth	Matrix		Red	ox Feature:		2.2			
(inches)	Color (moist)	%	Color (moist)	%	Type	Loc2	Texture	Remarks	
0-5	107K-71	100					CLAY_		
38-57-5-57-57-57-57-57-57-57-57-57-57-57-5							7		
	-		,				<u> </u>		
-	-	-0.1		-,				- Michigan Control of the Control of	
								Miles - William	
1Time: C=C	Concentration, D=De	notion DM-D	aduand Matrix, N	- ———	———		21 and an Di	_=Pore Lining, M=Matrix	
	Indicators:	pietion, RM-R	educed Matrix, M	io=iviasked	Sand Gra	ans.		_=Pore Liming, M=Math Problematic Hydric So	
Histoso			Sandy Gley	ad Matrix (	S4)		Stratified La		
C	Epipedon (A2)		Sandy Redo		34)		S- 33 may 1 may 100	: Material (F21)	
	Histic (A3)		Stripped Ma					w Dark Surface (TF12)	
	en Sulfide (A4)		Dark Surfac					ain in Remarks)	
Organic	c Bodies (A6)		Loamy Gley		F2)				
5 cm M	ucky Mineral (A7)		Depleted Ma	atrix (F3)					
/Muck P	Presence (A8)		Redox Dark	Surface (F	6)		<sup>3</sup> Indicators of hy	drophytic vegetation an	d
	ed Below Dark Surfa	ce (A11)	Depleted Da	ırk Surface	(F7)		wetland hyd	Irology must be present,	
Thick D	ark Surface (A12)		Redox Depr	essions (F	8)		unless distu	rbed or problematic.	
Restrictive	Layer (if observed	):					300000000000000000000000000000000000000		
Туре:								, /	
Depth (in	nches):						Hydric Soil Pres	sent? Yes	No
Remarks:							1.1, 2.1.2		
HYDROLO	NGV								
		211							
NAME OF THE PARTY	drology Indicators		3 3 3000 6					W 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
In the state of the state o	icators (minimum of	one required; o	1.09/2.500000 1.2000000	OF TARKS	energy of		7000 07 2	dicators (minimum of tw	o required)
O THE RESERVE THE PARTY OF THE	Water (A1)		and the second second	ined Leave			1 203-00-00-00-00	Soil Cracks (B6)	
	ater Table (A2)		12 (1 t)	auna (B13)			27.	Vegetated Concave Su	ırface (B8)
/Saturat				Sulfide Od	520 S	220 %		Patterns (B10)	
	Marks (B1)		VISIONOS MAGNON	Rhizosphei			- TENANTA - TENA	son Water Table (C2)	00 TO 10 A TO 10 COMMON STATE
S DESTRUCTION	nt Deposits (B2)		Andrew Agent Control	of Reduce	PROFESSION CONTRACTOR	die .		on Visible on Aerial Imag	gery (C9)
Alexander Alexander Control of the C	posits (B3)		10000000 000000	on Reduction		d Soils (C6	- 27	phic Position (D2)	
	lat or Crust (B4)			Surface (				Aquitard (D3)	
	posits (B5)		0.0000000000000000000000000000000000000	ab Burrow			FAC-Net	utral Test (D5)	
	ion Visible on Aerial	Imagery (B7)	Other (Ex	plain in Re	marks)				
Field Obser									
Surface Wa			Depth (in			_			
Water Table	Present?	Yes No	Depth (in	ches):	2	_			
Saturation F		Yes No	Depth (in	iches):	0	_ Wetl	and Hydrology Pre	esent? Yes	No
	pillary fringe) ecorded Data (strean	n gauge monit	oring well periol	photos pr	evious ins	nections)	if available:		
Describe Ne	scorded Data (streat	n gauge, monit	oning wen, aenar	priotos, pre	evious irisį	pectio is),	II avallable.		
Remarks:			1 - 22						



Soil pit.



General view of the observation point.

WETLAND DETERM	NATION DAT	A FORM – Ca	ribbean Islands Region
Project/Site: Labycoa Solar Park	Municipa	lity/Town: Yab	Sampling Date: March 12 20
Applicant/Owner: YFN Yabucag Solar	LLC		PR or USVI: PR sampling Point: VSP12
Investigator(s): A. Cubina.		Ward/Es	state: Camino NJEVO
Landform (hillstope, terrace, etc.):		relief (concave, c	onvex, none): FQ+ Slope (%):
Soil Map Unit Name: Pe Ca, Parcelas	(3)	612905	10005 NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for the	is time of year?	1/	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly distu	rbed? Are	Normal Circumstances" present? Yes V No No
Are Vegetation, Soil, or Hydrology	naturally problem	atic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site man	showing san	nplina point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes Remarks:	No	Is the Sampled within a Wetlar	
VEGETATION – Use scientific names of pla		minant Indicator	Dominance Test worksheet:
1. Sport holder campanuate	<u>% Cover Sp</u>	ecies? Status FACU	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant Species Across All Strata: (B)
4		otal Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  (A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index worksheet:
1	30.00		Total % Cover of: Multiply by:  OBL species x 1 = 0
3			FACW species $35 \times 2 = 70$
4			FAC species
5			FACU species $\underline{55}$ x 4 = $\overline{220}$
Herb Stratum (Plot size:	= T	otal Cover	UPL species $10 \times 5 = 50$
1. Prochlos maring	55 i	FACU	Column Totals: 100 (A) 343 (B)
2 Eriachloa polystechya	15 A	FACW	Prevalence Index = B/A =
3 Mmosacasta	151	) FACIN	Hydrophytic Vegetation Indicators:
4. Fueraria phascoloides	- 10 N		1 - Rapid Test for Hydrophytic Vegetation 2 - Dominance Test is >50%
5. Ipomoed setifera		1 FACW	3 - Prevalence Index is ≤3.0¹
6			Problematic Hydrophytic Vegetation¹ (Explain)
8.			
Woody Vine Stratum (Plot size:)	100% = To	otal Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1 2			
3			Hydrophytic
4			Vegetation
	= To	otal Cover	Present? Yes No
Remarks:	The second secon	2007 AMUSTONIA SKING	The state of the s

-	-		
	n	1	
$\sim$	v	1	_

	Van	1
Sampling Point:	YSK	1d

Profile Description: (Describe to the depth	i needed to document the maicator of ci	orman tre absence of indicators.)
DepthMatrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type Lo	oc <sup>2</sup> Texture Remarks
0-17 104R3/3 100		SANDYCLAY
		<del></del>
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix, MS=Masked Sand Grains	
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	31-41-41-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4
Muck Presence (A8) Depleted Below Dark Surface (A11)	Redox Dark Surface (F6) Depleted Dark Surface (F7)	Indicators of hydrophytic vegetation and
Thick Dark Surface (A12)	Redox Depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
	Redox Depressions (10)	unless disturbed of problematic.
Restrictive Layer (if observed):		
Туре:	a	. /
Depth (inches):		Hydric Soil Present? Yes No
Remarks:	22	
EARTHU	IORMS PRESENT	
,		
HYDROLOGY		
Wetland Hydrology Indicators:	check all that anniv)	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required;		Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living F	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fersence of Reduced Iron (C4)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fersence of Reduced Iron (C4)     Recent Iron Reduction in Tilled So	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fersence of Reduced Iron (C4)     Recent Iron Reduction in Tilled So	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living F Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled So Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (B13)     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Somethin Muck Surface (C7)     Fiddler Crab Burrows (C10)     Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present?  Yes Negaring Ne	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Fauna (B13)     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Some Thin Muck Surface (C7)     Fiddler Crab Burrows (C10)     Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
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Soil pit.



General view of the observation point.

WETLAND DETERMI	NATION DA	ATA FO	RM – Cai	ribbean Islands Region
Project/Site: Yabucoa Solar Park	Munic	ipality/To	wn: Yab	Sampling Date: March 12,
Applicant/Owner: YFN Yabucca Solar	LLC			PR or USVI: PR Sampling Point: Y5P13
Investigator(s): A Cobing			Ward/Es	tate: <u>Camino nuevo</u>
Landform (hillslope, terrace, etc.): Coastal Flat: \802 33.9 Long: Ob	- CIO 01	cal relief	(71)	onvex, none): FICH Slope (%):
Soil Map Unit Name: Ta; Talant Se				NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for thi	is time of year	? Yes	No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology				Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology				eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing s	amplin	a point l	ocations, transects, important features, etc.
			g point i	ocations, transcots, important reatures, etc.
Hydrophytic Vegetation Present? Yes Negative Soil Present? Yes Negative Soil Present? Yes Negative Soil Present? Yes Negative Soil Present?	10		ne Sampled nin a Wetlan	
Remarks:				
Bern Arec	10 44			
VEGETATION – Use scientific names of plan				1
Tree Stratum (Plot size:)	Absolute   <u>% Cover</u>		Indicator Status	Dominance Test worksheet:  Number of Dominant Species
1				That Are OBL, FACW, or FAC: (A)
2	-ev			Total Number of Dominant
3				Species Across All Strata: (B)
4				Percent of Dominant Species
J		Total Co	over	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	***************************************			Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x1 = FACW species x2 = 30
3				FAC species x 3 =
5.				FACU species 70 x4 = 280
51		= Total C	over	UPL species 5 x 5 = 76
Herb Stratum (Plot size:)	Za	Y	FACO	Column Totals: <u>i CO</u> (A) <u>585</u> (B)
1. Urochlog maxima 2. M. mosa caste	15	N	FACIAL	Prevalence Index = B/A = 3.85
3. Precaria physocloides	15	N	NC	Hydrophytic Vegetation Indicators:
4.				1 - Rapid Test for Hydrophytic Vegetation
5				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.0
7	-			Problematic Hydrophytic Vegetation¹ (Explain)
8	100 =	T.1.0		Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)		=   otal Co	over	be present, unless disturbed or problematic.
1				
2				
3				Hydrophytic Vegetation
4		= Total Co		Present? Yes No

-	-	
•	m	
u	u	L.

\	100	7, ~9
Sampling Point:	12	15

Profile Description: (Describe to the depth no	eeded to document the indicator or	confirm the absence of indicators.)
Depth Matrix	Redox Features	
6 1 1 1 1 1 7 1	Color (moist) % Type <sup>1</sup>	Loc Texture Remarks
0-4 10412 3/3 100		SILTYCLAY
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Red	duced Matrix, MS=Masked Sand Grain	ns. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
	_ Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	_ Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Organic Bodies (A6)	Dark Surface (S7) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Type: Fill Rock		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:	-	
HYDROLOGY		
HYDROLOGY  Wetland Hydrology Indicators:		
	eck all that apply)	Secondary Indicators (minimum of two required)
	eck all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; che	- CANDALLIA MARKET IN JOHN PROGRAM	The St.
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; che Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; che  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
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Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; che  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes No  Water Table Present? Yes No  Saturation Present? Yes No  Saturation Present? Yes No	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) g Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; che  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes No  Water Table Present? Yes No  Saturation Present? Yes No  Saturation Present? Yes No	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) g Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)  Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitor)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) g Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)  Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitor)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) g Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)  Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitor)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) g Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; che Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)  Field Observations: Surface Water Present? Yes No Water Table Present? Yes No Saturation Present? Yes No (includes capillary fringe) Describe Recorded Data (stream gauge, monitor)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) g Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Soils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No



Soil pit.



General view of the observation point.

, WETLAND DETERI	MINATION DAT	A FORM – Car	ribbean Islands Region
Project/Site: Yabucag Salar Par	Ł Municipa	ality/Town: Yal	OUCOQ Sampling Date: March 12,20
Applicant/Owner: YFN Yabucaa Sola	1 . 4	Dr. 100 100 100 100 100 100 100 100 100 10	PR or USVI: PR Sampling Point: VSP14
Investigator(s): A. Cubing	,	Ward/Est	tate: <u>Camino nueto</u>
Landform (hillslope, terrace, etc.): Cogsta  Lat: 18 02 33 26 Long: C	1 Plain Loca 206,5°50'		onvex, none): $Flat$ Slope (%):
Soil Map Unit Name: Ta, Talante So	~ I	00/0	NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for		Yes / No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology			Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	an showing sar	mpling point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes  Yes	No No No	Is the Sampled within a Wetlan	Area
Remarks:			,a
VEGETATION – Use scientific names of p	lants.		
Trans Charles (Dieleine		ominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)  1			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant Species Across All Strata:(B)
4			
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)		otal Cover	Prevalence Index worksheet:
1			Total % Cover of: Multiply by:
2			OBL species x 1 =
3			FACW species x 2 = FAC species x 3 =
4			FACU species x 4 =
o	=T	Total Cover	UPL species x 5 =
Hero Stratum (Plot size: )  1. Enoch log polystachys	100 Y	? FACW	Column Totals: (A) (B)
2			Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:
4			1 - Rapid Test for Hydrophytic Vegetation
5		- (2)	2 - Dominance Test is >50%
6			3 - Prevalence Index is ≤3.01
7			Problematic Hydrophytic Vegetation¹ (Explain)
8	10090=T		Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	100 / 0= T	otal Cover	be present, unless disturbed or problematic.
1			
2			
3 4.	<del></del>		Hydrophytic Vegetation
The second secon			Present? Yes No
	= T	otal Cover	11030111

•	~		
	u	z	

Sampling Point: VSPI

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth	Matrix			x Feature		12	T	Demonto
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
							S	
				a				
				-			·	
			The second secon				-	
							:	
1 <del></del>			1 155 12 55				21 22 50	B III M M II
Hydric Soil	oncentration, D=D	epietion, RM=R	educed Matrix, M	S=Masked	a Sand Gra	ains.		=Pore Lining, M=Matrix. Problematic Hydric Solls <sup>3</sup> :
200000			0	al Manager /	0.0			20 Common (1997)
Histosol			Sandy Gleye Sandy Redox		54)		Stratified La	
the state of the state of	oipedon (A2) istic (A3)		Stripped Mat				Control of the contro	Material (F21) w Dark Surface (TF12)
	en Sulfide (A4)	32	On pped Wat				O TO THE MODERATE DESIGNATION OF THE PARTY O	ain in Remarks)
	Bodies (A6)	3	Loamy Gleye		(F2)		Office (Expire	an in Remarks)
	icky Mineral (A7)		Depleted Ma		/			
	esence (A8)	8	Redox Dark		-6)		3Indicators of hy	drophytic vegetation and
	d Below Dark Surfa	ace (A11)	Depleted Da				wetland hydi	rology must be present,
Thick Da	ark Surface (A12)		Redox Depre	essions (F	(8)		unless distur	rbed or problematic.
Restrictive	Layer (if observe	4).			V.		T	
Type:	Layer (II observed	۵).						
A140 60 A100 A100 A100 A100 A100 A100 A100	oboo):		_				Hydric Soil Pres	sent? Yes No
Depth (in						^		tent? TesNO
Remarks:	No soil	In 1=00	Logra x	0 Of	- SUH	600	water	
	100 -011	1001001	· Decare	1	- 01.		,	
HYDROLO	GV		***************************************					
		20.						
-	drology Indicator						0	directors (sciniscos of top required)
Sec	cators (minimum o	rone requirea; c						dicators (minimum of two required)
	Water (A1)		Water-Sta				A COLUMN TO A COLU	Soil Cracks (B6)
-	ater Table (A2)		— Aquatic Fa				A	Vegetated Concave Surface (B8)
Saturation	V 100-011-100-0-100-01-1		— Hydrogen					Patterns (B10)
	larks (B1)					ing Roots (	Marin Marin	son Water Table (C2)
100 NACO (100 NA	nt Deposits (B2)		Presence					n Visible on Aerial Imagery (C9)
Vanco constru	posits (B3)		Recent Iro			d Soils (C6		phic Position (D2)
	at or Crust (B4)		Thin Muck		1000000		Samuel Control of the	Aquitard (D3)
	oosits (B5)		Fiddler Cr		35 35		FAC-Neu	itral Test (D5)
	on Visible on Aeria	I Imagery (B7)	Other (Exp	olain in Re	emarks)			
Field Obser		1/			i.			
Surface Wat	er Present?		Depth (in	ches):	0	-		
Water Table		Yes No			03	-  -		1/
Saturation P (includes car		Yes V No	Depth (in	ches):	$\cup$	_ Wetla	and Hydrology Pre	esent? Yes No No No
	corded Data (strea	m gauge, monit	oring well, aerial	photos, pr	revious ins	pections),	if available:	
Remarks:								



Soil pit.



, WETLAND DETERMINA	ATION D	ATA	FORM	VI – Ca	ribbean Islands Region
Project/Site: Yabycog Solar Park	Mun	icipalit	y/Town:	Yab	Sampling Date: March
Applicant/Owner: YFN Yabuca Solar, L	13	5) 1/			PR or USVI: PR Sampling Point: YSP 15
Investigator(s): A. CUBIRA					tate: Camino nuevo
Landform (hillslope, terrace, etc.): Casta Sa	in			ncave c	onvex none): FIAT Slope (%):
	506	50'	35.	411	Datum: NAO 83
Soil Map Unit Name: Cr. Coloso Silty	Clar	2			NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this I	time of ve	r2 Vo	1 /		
Are Vegetation, Soil, or Hydrology sig					Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology na					
					eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map s	howing	sam	pling p	point le	ocations, transects, important features, etc.
The state of the s			Is the S	Sampled	Area
		- 1		a Wetlan	
					verx
Remarks:					
				-	The second secon
VEGETATION – Use scientific names of plants	2000	***************************************			
	Absolute % Cover		nant Ind		Dominance Test worksheet:
1					Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2					Total Number of Dominant
3					Species Across All Strata: (B)
4					Percent of Dominant Species
5					That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size:)		= Tota	al Cover		Prevalence Index worksheet:
1					Total % Cover of: Multiply by:
2					OBL species x 1 =
3					FACW species x 2 =
4					FAC species x 3 =
5					FACU species x 4 =
Harle Otention (Diet sien)	·	_ = Tot	al Cover	r	UPL species x 5 =
Herb Stratum (Plot size: )	75	Y	F	ACILI	Column Totals: (A) (B)
2. Commeling diffuse	10	N	F	AC	Prevalence Index = B/A =
3. Desmodim adscendens	10	7	T	AC.	Hydrophytic Vegetation Indicators:
4. Luduisia octavalvis	5	N	0	BC	1 - Rapid Test for Hydrophytic Vegetation
5					
6					3 - Prevalence Index is ≤3.01
7					Problematic Hydrophytic Vegetation¹ (Explain)
8	1-2				10.00
Woody Vine Stratum (Plot size:)	100	= Tota	al Cover		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1)					be present, amost assured or problematic.
2		-			
3			388		Hydrophytic
4					Vegetation
		= Tota	al Cover		Present? Yes No No
Remarks:					

	1/	01	フェ	parties.
Sampling Point:	<u> </u>	>		5

Profile Description: (Describe to the depth needed to document the indicator or	confirm the absence of indicators )
Depth Matrix Redox Features	sommit are asserted of managers.
	_oc <sup>2</sup> Texture Remarks
0-21 107R3/1 100	SANDICIAY
	2.1707/04:1
	<del></del>
	Value
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> :
Histosol (A1) Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2) Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3) Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6) Loamy Gleyed Matrix (F2)	
5 cm Mucky Mineral (A7) Depleted Matrix (F3)	3. 10. 1 20. 1 20. 1 20. 1
Muck Presence (A8) Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12) Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):	
Туре:	
Depth (inches):	Hydric Soil Present? Yes / No
Remarks:	
I in	
HYDROLOGY	
HYDROLOGY Wetland Hydrology Indicators:	
Wetland Hydrology Indicators:	Cocondany Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) High Water Table (A2) Water-Stained Leaves (B9) Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li></ul>
Wetland Hydrology Indicators:  Primery Indicators (minimum of one required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9)  High Water Table (A2) Aquatic Fauna (B13)  Saturation (A3) Hydrogen Sulfide Odor (C1)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primery Indicators (minimum of one required; check all that apply)  Surface Water (A1)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Rcots (C3)</li> <li>Dry-Season Water Table (C2)</li> </ul>
Wetland Hydrology Indicators:  Primery Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primery Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2)
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Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No



Soil pit.



General view of the observation point.

WETLAND DETERMIN	NOITA	ATA	FOR	M – Ca	ribbean Islands Region
Project/Site: Yabucog Solar Park	Mun	icipality	y/Towr	Yak	Sampling Date: March [2
Applicant/Owner: YFN Yabucoa Solar, L	ic			1	PR or USVI: PI Sampling Point: YSP [
Investigator(s): A Cobing				Ward/Es	state: <u>Camino Nuevo</u>
Landform (hillslope, terrace, etc.): CASTALP	LAIN	Local re	elief (c		
Lat: 1802'30.3" Long: 0		-	5.	d"	_ Datum: <u>NaD83_</u> ( ) _ ( )
Soil Map Unit Name: CC, COLOSOS, 1-	ty Cla	8			NWI classification: Upland
Are climatic / hydrologic conditions on the site typical for this	s time of yea	ar? Ye	es V	1000	
Are Vegetation, Soil, or Hydrologys	ignificantly	disturb	ed?	Are '	Normal Circumstances" present? Yes No No
Are Vegetation, Soil, or Hydrologyn	aturally pro	blemat	tic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	samı	pling	point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes N Hydric Soil Present? Yes N Wetland Hydrology Present? Yes N Remarks:	o_V	- 1		Sampled a Wetlar	(/
VEGETATION – Use scientific names of plan	ts.				
	Absolute	Domi	inant li	ndicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1)	% Cover		-		Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2	-				Total Number of Dominant
3					Species Across All Strata: (B)
4		,			Percent of Dominant Species
5					That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	-	=   ota	al Cove	er.	Prevalence Index worksheet:
1					Total % Cover of: Multiply by:
2		-			OBL species x1=
3		_			FACW species $\frac{20}{30}$ x 2 = $\frac{40}{90}$
4		1,0			
5					FACU species x 4 = UPL species x 5 =
Herb Stratum (Plot size:)		_= 100	tal Cov	er —	Column Totals: $100$ (A) $330$ (B)
1. Urochloa maxima,	50	1	ī	ACU	(2)
2. Paspalum conjugatum	25	-Y		FAC	Prevalence Index = $B/A = 3 \cdot 3 \circ$
3. Eriochlog 20 ly stachya	20	7		ACW	Hydrophytic Vegetation Indicators:
4. Commeling ditasqu	_5_	N		FAC	1 - Rapid Test for Hydrophytic Vegetation
5					2 - Dominance Test is >50%
6	-				3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)
7					Problematic Hydrophytic Vegetation (Explain)
Woody Vine Stratum (Plot size:)	100	= Tota	al Cove		<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1		-			
2					
3					Hydrophytic
4		The second			Vegetation   Present?   Yes No
Description	_	= Tota	al Cove	er	\$100 P
Remarks:					

Sampling Point: 4SP 16

Profile Description: (Describe to the depth	needed to document the indicator or con	in in the absence of indicators.)
Depth Matrix	Redox Features	<del></del>
(inches) Color (moist) %	Color (maist) % Type Loc	
0-21 104R 3/3 100		LOAMY CLAY
		<del></del>
		<del></del>
1 <del>-</del>		
Type: C=Concentration, D=Depletion, RM=R Hydric Soil Indicators:	educed Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
50 (188 of Art 25 74)		•
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2) Black Histic (A3)	Sandy Redox (S5) Stripped Matrix (S6)	Red Parent Material (F21)
Hydrogen Sulfide (A4)	Shipped Wallix (S6) Dark Surface (S7)	Very Shallow Dark Surface (TF12) Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):	145 × 1	
Type:		
	_	Hudda Oall Danas (O. Van.
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
HYDROLOGY Wetland Hydrology Indicators:		
	check all that apply)	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:	check all that apply) Water-Stained Leaves (B9)	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)		**************************************
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Ro	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Ro     Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roman Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
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Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
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Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes No Saturation Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes No water Table Present? Yes No (includes capillary fringe)  Describe Recorded Data (stream gauge, monice)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes No Saturation Present? Yes No Saturation Present? Yes No Saturation Present? Yes No Saturation Present? Yes No Situration Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes No water Table Present? Yes No (includes capillary fringe)  Describe Recorded Data (stream gauge, monice)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Soil pit.



WETLAND DETERMIN	IATION E	ATA	FOF	RM – Ca	ribbean Islands Region
Project/Site: Yalvicog Solar Project	Mun	iicipalit	ty/Tow	n: Yab	UCOG Sampling Date: March 1
Applicant/Owner: YFN Yaloucog Solar	LIC			F	PR or USVI: PR Sampling Point: YSP 17
Investigator(s): A. Cub, 756					tale: Camino nuevo
Landform (hillslope, terrace, etc.): Coastal Plant Lat: 180227,8" Long: Ob	65°5	Local	relief (d ス子。	concave, c	onvex, none): <u>FLAT</u> Slope (%):
Soil Map Unit Name: T9, 19 anteso	ik				NWI classification:
Are climatic / hydrologic conditions on the site typical for this	s time of yea	ar? Ye	es 1/	No	
Are Vegetation, Soil, or Hydrologys					Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologyn					eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map				noint l	ocations transacts important features etc
	. /	Sam	pinig	pomen	ocations, transects, important reactires, etc.
Hydrophytic Vegetation Present?         YesN           Hydric Soil Present?         YesN           Wetland Hydrology Present?         YesN	o			Sampled n a Wetlar	
Remarks:					
				and the second second second	
VEGETATION - Use scientific names of plan	ts.				
	Absolute			Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)  1		_			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2					Total Number of Dominant
3 4					Species Across All Strata: (B)
5					Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
		= Tota	al Cov	er	
Sapling/Shrub Stratum (Plot size:)					Prevalence Index worksheet:  Total % Cover of: Multiply by:
1	(30)				OBL species x 1 =
3					FACW species $10 \times 2 = 20$
					FAC species x 3 =
5.					FACU species $90 \times 4 = 360$
61	\ <u></u>	= Tof	tal Cov	/er	UPL species x 5 =
Herb Stratum (Plot size:)	90	- <i>V</i>	,	-A C -1	Column Totals: 100 (A) 380 (B)
1. Urochlog making	10	1/		TACU	Prevalence Index = B/A = 3.86
2. M. mosa casta	10	10	Ĩ	71CW	Hydrophytic Vegetation Indicators:
3	ř:	-			1 - Rapid Test for Hydrophytic Vegetation
5					2 - Dominance Test is >50%
6					3 - Prevalence Index is ≤3.01
7					Problematic Hydrophytic Vegetation (Explain)
8		59.0			100 No. 100 No
Woody Vine Stratum (Plot size:)	100%	, Œ Toti	al Cov	er	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		-			
3					Hydrophytic
4.					Vegetation
60		= Tota	al Cov	er	Present? Yes No
Remarks:	- 10 m	10000			

	c	^	ı	1
•	0	u	ı	L.

Sampling Point: <u>YSP17</u>

Profile Description: (Describe to the depth	n needed to document the indicator or conf	firm the absence of indicators.)
Depth Matrix	Redox Features	······································
(inches) Color (moist) %	Color (moist) % Type Loc²	
0-16 104R-44 100	3	LOAMYCLAY
		- A Table Committee of the Committee of
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix MS=Masked Sand Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	todasca matrix, mo-mastica caria crains.	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	3
Muck Presence (A8)     Depleted Below Dark Surface (A11)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Thick Dark Surface (A11)	Depleted Dark Surface (F7) Redox Depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
	Nedax Bepressions (1.6)	amos distarbed of problemate.
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		****
Primary Indicators (minimum of one required;	check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Surface Soft Cracks (Bb) Sparsely Vegetated Concave Surface (B8)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Oparisery regetated concave our lace (Bb) Drainage Patterns (B10)
Water Marks (B1)	Oxidized Rhizospheres on Living Roo	
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils	AND SECOND SECON
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Source of the Control
		Shallow Adultard (D3)
Iron Deposits (B5)		Shallow Aquitard (D3)  FAC-Neutral Test (D5)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Shahow Adultara (D3) FAC-Neutral Test (D5)
	Fiddler Crab Burrows (C10)	
Inundation Visible on Aerial Imagery (B7)	Fiddler Crab Burrows (C10) Other (Explain in Remarks)	
Inundation Visible on Aerial Imagery (B7) Field Observations:	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches):	
Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Notes Table Present? Yes Notes Table Present?	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Notes a continuous Notes	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  o Depth (inches): o Depth (inches): W	FAC-Neutral Test (D5)  /etland Hydrology Present? Yes No
Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Notes Table Present? Yes Notes Table Present? Yes Notes Table Present? Yes Notes Table Present?	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  o Depth (inches): o Depth (inches): W	FAC-Neutral Test (D5)  /etland Hydrology Present? Yes No
Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Noter Table Present? Yes Note Table Present? Yes Yes Note Table Present? Yes	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  o Depth (inches): o Depth (inches): W	FAC-Neutral Test (D5)  /etland Hydrology Present? Yes No
Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Notes a continuous Notes	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  o Depth (inches): o Depth (inches): W	FAC-Neutral Test (D5)  /etland Hydrology Present? Yes No
Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Noter Table Present? Yes Note Table Present? Yes Yes Note Table Present? Yes	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  o Depth (inches): o Depth (inches): W	FAC-Neutral Test (D5)  /etland Hydrology Present? Yes No
Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Noter Table Present? Yes Note Table Present? Yes Yes Note Table Present? Yes	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  o Depth (inches): o Depth (inches): W	FAC-Neutral Test (D5)  /etland Hydrology Present? Yes No
Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Noter Table Present? Yes Note Table Present? Yes Yes Note Table Present? Yes	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  o Depth (inches): o Depth (inches): W	FAC-Neutral Test (D5)  /etland Hydrology Present? Yes No
Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N.  Water Table Present? Yes N.  Saturation Present? Yes N.  (includes capillary fringe)  Describe Recorded Data (stream gauge, mon	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  o Depth (inches): o Depth (inches): W	FAC-Neutral Test (D5)  /etland Hydrology Present? Yes No



Soil pit.



WETLAND DETERMINATION	DATA	FORM - Ca	ribbean Islands Region
Project/Site: Yabucoa Solar Project Mu	ınicipali	ty/Town: Yak	OUCOS Sampling Date: March 13 2013
Applicant/Owner: YFN Yaboog Solar, LI	LC		PR or USVI: PR or USVI: Sampling Point: YSP 18
Investigator(s): A CUBITA		Ward/E	state: Camino nseso
19 01 75 10	Local	1 1	convex, none): Flat Slope (%):
To Tala 1 80 T		1 1 1	_ Datum: NAD 83 NWI classification: PEM IC
		1/ 1/	11111 Oldoomodion.
Are climatic / hydrologic conditions on the site typical for this time of ye			(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologysignificantly			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologynaturally pro-			eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	g sam	pling point l	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes No		Is the Sampled within a Wetla	
VECTATION Libraria difference of plants		ē	
VEGETATION – Use scientific names of plants.	_		Doubles Today date to
Absolute	r Spe	inant Indicator cies? Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3			Total Number of Dominant Species Across All Strata: (B)
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	_ = 1 ot	al Cover	Prevalence Index worksheet:
1			Total % Cover of:Multiply by:
2			OBL species x 1 =
3			FACW species x 2 =
4	-		FAC species x 3 =
5			FACU species x 4 = UPL species x 5 =
Herb Stratum (Plot size:)	_= 10	tal Cover	Column Totals: (A) (B)
1. Eriochloa polystachya 100		FACU	Prevalence Index = B/A =
3			Hydrophytic Vegetation Indicators:
4			1 - Rapid Test for Hydrophytic Vegetation
5			2 - Dominance Test is >50%
6			3 - Prevalence Index is ≤3.0¹
7			Problematic Hydrophytic Vegetation' (Explain)
Woody Vine Stratum (Plot size:)	<u>o</u> = Tot	al Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2	-		
3			Hydrophytic
4			Vegetation
-	_ = Tot	al Cover	Present? Yes No No
Remarks:			

	USDIO
Sampling Point:	10110

1 220 123 123 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	h needed to document the indicator or cor	and appearance of management,
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type Loc	
03 1012/2 100		SANDY CLAY.
5-18 GLEY 1 3/02 100		Sandy CLAY
75		
¹Type: C=Concentration, D=Depletion, RM=	Reduced Matrix MS=Masked Sand Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	reduced matrix, Mo-Masked Sand Grains.	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
WET B	NT POT SATURATED	
HYDROLOGY		
Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:	check all that apply)	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one required	PROPERTY AND MANY MANAGEMENT	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one required)  Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li><li>Hydrogen Sulfide Odor (C1)</li></ul>	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) cots (C3) Dry-Season Water Table (C2)
Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Primary Indicators (minimum of one required;  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roman Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils     Thin Muck Surface (C7)     Fiddler Crab Burrows (C10)     Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Primary Indicators (minimum of one required;  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roman Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils     Thin Muck Surface (C7)     Fiddler Crab Burrows (C10)     Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Primary Indicators (minimum of one required;  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roman Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils     Thin Muck Surface (C7)     Fiddler Crab Burrows (C10)     Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) oots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes Naturation Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe) Describe Recorded Data (stream gauge, mor	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes Naturation Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe) Describe Recorded Data (stream gauge, mor	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe) Describe Recorded Data (stream gauge, mor	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe) Describe Recorded Data (stream gauge, mor	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe) Describe Recorded Data (stream gauge, mor	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Ro Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)



Soil pit.



General view of the observation point.

WETLAND DETERMINATION	I DATA FORM – Ça	ribbean Islands Region
Project/Site: Yabucag Solar Park M	lunicipality/Town: <u>Ya</u>	bucog Sampling Date: YSP 19
Applicant/Owner: YFN Yaboog Solar, LL	C	PR or USVI: PR Sampling Point: March 13,2013
Investigator(s): A CODITA		state: Caminonueur
Landform (hillslope, terrace, etc.): $\frac{\text{Cogs}}{\text{Cogs}}$ Long: $\frac{\text{Cogs}}{\text{Cogs}}$		convex, none): F19+ Slope (%):
Soil Map Unit Name: Ta Talante Soils		NWI classification: UPLAND
Are climatic / hydrologic conditions on the site typical for this time of	vear? Yes V No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significant		"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally p		eeded, explain any answers in Remarks.)
Allerbasian Victoria III.		•
SUMMARY OF FINDINGS – Attach site map showing	ig sampling point l	locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes No  Yes No	Is the Sampled within a Wetla	
VEGETATION – Use scientific names of plants.	Denvis and Indiana	Damin and Tark underhant
	e Dominant Indicator er Species? Status	Dominance Test worksheet:  Number of Dominant Species
<u>1.</u>	-	That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
4		Percent of Dominant Species
5	= Total Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size: 15 )	_= Total Cover	Prevalence Index worksheet:
1. M. mosa pigra 30	TAC 18	Total % Cover of:Multiply by:
2		OBL species x 1 =
3		FACW species x 2 =
4		FAC species x 3 =
5	<del>,</del>	FACU species x 4 =
Herb Stratum (Plot size: 5 )	= Total Cover	UPL species x 5 =
1. Friochlospolystachys 50	Y. FACW	Column Totals: (A) (B)
2 Pasalum Virgatum 50	Y FACW	Prevalence Index = B/A =
3		Hydrophytic Vegetation Indicators:
4		1 - Rapid Test for Hydrophylic Vegetation
5		2 - Dominance Test is >50%
6		3 - Prevalence Index is ≤3.0¹
7		Problematic Hydrophytic Vegetation¹ (Explain)
8		
Woody Vine Stratum (Plot size:)  1	= Total Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2		
3		Hydrophytic
4		Vegetation Present? Yes No
	= Total Cover	163
Remarks:		

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	.,	

Profile Desc	ription: (Descr	ibe to the d	enth neede	d to docum	nent the in	ndicator o	or confirm	the absence of	indicators )		
Depth	Matri		op noodo		x Features		or commi	Tuto absortee of	maioacor 3.7		
(inches)	Color (moist	)%	Color	(moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Rema	arks	
0-18	10TR 3/3	3 100						SANDYCLA	S		
									·		
	-		_			-		1			
		-	_					·			
	•					4					
	()	10									
10000											
					0	West and the second	A	2			
¹Type: C=Cc	oncentration, D=I	Depletion R	M=Reduced	Matrix MS	=Masked	Sand Gra	ine	2l ocation:	PL=Pore Lining, N	A-Matriy	
Hydric Soil I		sopronon, n	rrodused	matrix, we	- musicu	ound on			Problematic Hy		
Histosol	(A1)		Sa	indy Gleyer	d Matrix (S	64)		Stratified	Layers (A5)		
Histic Ep	ipedon (A2)			ndy Redox		*			nt Material (F21)		
Black His	stic (A3)		St	ripped Matr	ix (S6)			Very Shall	low Dark Surface	(TF12)	
	n Sulfide (A4)		8-1-20	rk Surface				Other (Ex	plain in Remarks	)	
	Bodies (A6)			amy Gleye		=2)					
	cky Mineral (A7) esence (A8)		(C)	pleted Mat dox Dark s		e.v		Sin disators of	hydrophytic veget	totion and	
755 NO 20	i Below Dark Sur	face (A11)	10000	pleted Dar					ydrology must be		
The state of the s	rk Surface (A12)		-	dox Depre		5 3			turbed or problem		
	ayer (if observe									1000000	
	.ayer (II observe	a):									/
Туре:	L \.								10 11	1/	
Depth (inc	ines):							Hydric Soil Pr	esent? Yes	No_ <u>/</u>	
Remarks:											
HYDROLO	GY				All and their and a second						
	Irology Indicato	rc.									-
	ators (minimum		rad: chack a	II that apply	۵			Secondary	Indicators (minim	um of two roqui	rod)
	Water (A1)	or one requi		Water-Stai		c (P0)			Soil Cracks (B6		reu)
	ter Table (A2)			Aquatic Fa				St.	ly Vegetated Con		<b>38</b> \
Saturatio	100000000000000000000000000000000000000		-	Hydrogen (				The state of the s	ge Patterns (B10)		50)
Water Ma			-	Oxidized R			na Roots (		ason Water Table		
n	t Deposits (B2)			Presence of					tion Visible on Ae		3)
	osits (B3)			Recent Iron				4, 150,000,000,000	orphic Position (D		
	t or Crust (B4)		Va 5-	Thin Muck			,	El Oracle	v Aquitard (D3)	-,	
	osits (B5)			Fiddler Cra		200000000000000000000000000000000000000			eutral Test (D5)		
	on Visible on Aer	al Imagery		Other (Exp							
Field Observ	ations:					020		-			
Surface Water	er Present?	Yes	No	Depth (inc	:hes):		_				
Water Table	Present?	Yes	No_V	Depth (inc							/
Saturation Pr	esent?	Yes		Depth (inc			200	and Hydrology P	resent? Yes	No V	
(includes cap											
Describe Red	orded Data (stre	am gauge, i	monitoring w	ell, aerial p	hotos, pre	vious insp	pections),	if available:			
									naul		
Remarks:											



Soil pit.



General view of the observation point.

WETLAND DETERMINATION DAT	ra Form – Cari	ibbean Islands Region	
Project/Site: Yabuca Solar Park Municipi	ality/Town: Yab	Sampling Date: Man	-ch 13,2013
Applicant/Owner: YFN Yabucog Solar, LLC		R or USVI; PIZ Sampling Point: YS	Pao
Investigator(s): A CUBINA	Ward/Esta	ate: <u>Camino Nueva</u>	
Landform (hillslope, terrace, etc.): Coastal Plain Loca		onvex, none): F(a+ Slope (%):	
Lat: 18°02'32, 24" Long: 65°50'2	2.17"	Datum: NAO 83	
Soil Map Unit Name: Ta Talante Soils		NWI classification: PEM1C	-
Are climatic / hydrologic conditions on the site typical for this time of year?	YesNo	(If no, explain in Remarks.)	
Are Vegetation, Soil, or Hydrology significantly distu	urbed? Are "N	Normal Circumstances" present? Yes No	)
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If nee	eded, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing sa	mpling point lo	cations, transects, important features	s, etc.
Hydrophytic Vegetation Present? Yes No	T		
Hydric Soil Present? Yes No	Is the Sampled A	V	
Wetland Hydrology Present? Yes No	within a Wetland	d? Yes No	
Remarks:			
VEGETATION – Use scientific names of plants.			
	ominant Indicator pecies? Status	Dominance Test worksheet:	
1		Number of Dominant Species That Are OBL, FACW, or FAC:	(A)
2		Total Number of Dominant	* *
3		Species Across All Strata:	(B)
4		Percent of Dominant Species	
5		That Are OBL, FACW, or FAC:	(A/B)
Sapling/Shrub Stratum (Plot size:)	Total Cover	Prevalence Index worksheet:	
1,		Total % Cover of: Multiply by:	
2		OBL species x 1 =	
3		FAC species x 2 =	
4		FAC species x 3 = FACU species x 4 =	_
S	Total Cover	UPL species	
Herb Stratum (Plot size:	The state of the s	Column Totals: (A)	_ (B)
1. Eriochlog Polystachya 30	1 TAKW OBI	Provolence Index - B/A -	
2. Cyperus impricatud 30 \\ 3. Eleocharis interstincta 20 \\	000	Prevalence Index = B/A =	
4. Commeling ciffusa 10 N	J FAC	1 - Rapid Test for Hydrophylic Vegetation	
5. M. Karia SP. 10 1	0	2 - Dominance Test is >50%	
6		3 - Prevalence Index is ≤3.01	
7		Problematic Hydrophytic Vegetation (Explain	۱)
8		Designation of the state of the	
Woody Vine Stratum (Plot size:)	fotal Cover	'Indicators of hydric soil and wetland hydrology m be present, unless disturbed or problematic.	lust
1			
2			
3		Hydrophytic	
4		Vegetation Present? Yes No No No	
= T	Total Cover		
TOTAL IS.			
			1

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3	u	IL.

Sampling Point: <u>YSP2</u>0

Section (Mark)	needed to document the indicator or confirm	in the absolute of maleuters./
Depth Matrix	Redox Features	× × × × × × × × × × × × × × × × × × ×
(inches) Color (moist) %	Color (moist) % Type Loc2	Texture Remarks
0-5 10423/2 100		SANDYCLAY
5-25 GLEY 1 3/104 100		SANPY CLAY
. //		
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Re	educed 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> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Organic Bodies (A6)	Dark Surface (S7) Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		nyana san masani. Tas na
Pissected	terrain	
FISACCATO		
HYDROLOGY		
HYDROLOGY Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:	theck all that apply)	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; c	CONTRACTOR	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)	Water-Stained Leaves (B9)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living Rcots</li> </ul>	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Try-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Try-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; c)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; comparison of the primary Indicators (Minimum of one required; comparison of the primary Indicators (Minimum of the	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required of the primary Indicators (minimum of one requir	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of the primary Indicators (m	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (Malagorian of the primary	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Uestimate (B9)  Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of the primary Indicators (m	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Uestimate (B9)  Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of the primary Indicators (m	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Uestimate (B9)  Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (Malagorian of the primary	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Uestimate (B9)  Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of the primary Indicators (m	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Uestimate (B9)  Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of the primary Indicators (m	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Uestimate (B9)  Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of the primary Indicators (m	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Uestimate (B9)  Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of one required; compared of the primary Indicators (minimum of the primary Indicators (m	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Uestimate (B9)  Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)





WETLAND DETERMINATION	ON DATA	FORM - Çai	ribbean Islands	Region	
Project/Site: Yabscog Solar Park	Municipality	vTown: Yal	90C0Q	Sampling D	ate: March 13,
Applicant/Owner: YFN Yabuca Solar Li	332	F	1 1:	Sampling P	oint: YSP21
Investigator(s): A CUBINA		Ward/Es	tate: Camir	ONJEUD	
Landform (hillslope, terrace, etc.): $\frac{C9.54a}{D9.54}$ D/G Lat: $\frac{1802.36.8}{D9.54}$ Long: $\frac{065}{D9.54}$	Local re		onvex, none): <u>FL</u> _ Datum: <u>NGD</u>	83	20 South AST 1 Tong ( G) Thomas
Soil Map Unit Name: VW, VIV, Loam			NWI cla	ssification:	PLAND
Are climatic / hydrologic conditions on the site typical for this time	of year? Ye	No	(If no, explain		
Are Vegetation, Soil, or Hydrology significa	antly disturbe	ed? Are "	Normal Circumstand	es" present? Ye	sNo
Are Vegetation, Soil, or Hydrology naturally	y problemati	c? (If ne	eded, explain any ar	nswers in Remark	S.)
SUMMARY OF FINDINGS - Attach site map show	ing samp	lina point le	ocations, transe	ects. importai	nt features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes No	_	s the Sampled within a Wetlan	Area	No	
VEGETATION – Use scientific names of plants.	luta Damir	cont Indicates	Dominance Test	workshoot:	
1	over Spec		Dominance Test  Number of Domina That Are OBL, FA	ant Species	(A)
2			Total Number of D Species Across Al		(B)
5	*	Cover	Percent of Domina That Are OBL, FA		(A/B)
Sapling/Shrub Stratum (Plot size:)	- 01	-,	Prevalence Index		
1. Mimosa pigna 15	0 14	- FAC		r of: M	
2			OBL species FACW species		
3			FAC species		
5			FACU species _		
5	$\frac{300}{500}$ = Tota	al Cover	UPL species	x 5 =	
1. Erischler Polystachya 70 2. Paspalum Viregtum 2	0 4	FACW	Acceptable of the responsibilities of the responsibilities of the	(A) ndex = B/A =	(B)
	5 N	FACW	Hydrophytic Veg		
4.			1 - Rapid Tesi	t for Hydrophytic \	/egetation
5			2 - Dominance		
6			3 - Prevalence		
7			Problematic H	lydrophytic Vegeta	ation' (Explain)
8	9-		Indicators of hydr	is sail and wetland	d bydrology must
Woody Vine Stratum (Plot size:)  1	<u>0/o</u> = Tota	Cover	be present, unless		
2					
3			Hydrophytic	SON COM	
4			Vegetation Present?	Yes	No
	= Tota	l Cover			803
Remarks:		,			

Sampling Point: YSP2 |

Profile Description: (Describe to the depth needed to document the indicator or of	confirm the absence of indicators \
Depth Matrix Redox Features	committee absence of indicators.)
	oc <sup>2</sup> Texture Remarks
0-18 10723/3 100	SandyClay
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains	21
Hydric Soil Indicators:	s. <sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1) Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2) Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3) Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6) Loamy Gleyed Matrix (F2)	
5 cm Mucky Mineral (A7) Depleted Matrix (F3)	(a.
Muck Presence (A8) Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox Depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
	unless distarbed of problematic.
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Remarks: EARTHWORMS PRESENT	
21.10.11.00.1.3.1.20.30.4	
HYDROLOGY	
60000000	
Wetland Hydrology Indicators:	Concepton in directors (existence of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li></ul>
Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Water-Stained Leaves (B9) High Water Table (A2) Aquatic Fauna (B13) Saturation (A3) Hydrogen Sulfide Odor (C1)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:         Primary Indicators (minimum of one required; check all that apply)         Surface Water (A1)       Water-Stained Leaves (B9)         High Water Table (A2)       Aquatic Fauna (B13)         Saturation (A3)       Hydrogen Sulfide Odor (C1)         Water Marks (B1)       Oxidized Rhizospheres on Living         Sediment Deposits (B2)       Presence of Reduced Iron (C4)         Drift Deposits (B3)       Recent Iron Reduction in Tilled States (C7)         Iron Deposits (B5)       Fiddler Crab Burrows (C10)         Inundation Visible on Aerial Imagery (B7)       Other (Explain in Remarks)         Field Observations:         Surface Water Present?       Yes       No       Depth (inches):         Water Table Present?       Yes       No       Depth (inches):         Saturation Present?       Yes       No       Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Rcots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) oils (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No



Soil pit.



WETLAND DETERMINATION D.	ATA	FOF	RM – Çai	ribbean Islands Region
Project/Site: Yaby Coa Solar Park Muni	cipality	y/Tow	n: Yal	oucoa sampling Date: March 17, 2013
				PR or USVI: PR Sampling Point: YSP22
Investigator(s): A Colombia			_ Ward/Es	tate: Cammo nuevo
Lat: 1802 28.011 Long: 065°50	ocal re	elief (d	concave, c	onvex, none): FCA ( Slope (%):
Soil Map Unit Name: Vw. Viv. Leam				NWI classification: UPCAND
Are climatic / hydrologic conditions on the site typical for this time of year	r? Ye	s <u>/</u>	No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology significantly d	disturb	ed?	Аге "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology naturally prob	olemati	ic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing	samp	oling	g point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes No V  Yes No V  No V	1		Sampled n a Wetlan	
VEGETATION – Use scientific names of plants.			<del>-</del>	
Absolute				Dominance Test worksheet:
Tree Stratum (Plot size:)				Number of Dominant Species That Are OBL, FACW, or FAC:(A)
3				Total Number of Dominant Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	= Tota	l Cov	rer	Prevalence Index worksheet:
1				Total % Cover of: Multiply by:
2				OBL species x 1 =
3				FACW species x 2 =
4				FAC species x 3 =
5				FACU species x 4 =
	= Tota	al Cov	ver	UPL species x 5 =
Herb Stratum (Plot size:	Y	<u>ī</u>	Acw	Column Totals: (A) (B)
2				Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:
3		_		1 - Rapid Test for Hydrophytic Vegetation
4				2 - Dominance Test is >50%
5				3 - Prevalence Index is ≤3.01
6		- 600	1970	Problematic Hydrophytic Vegetation (Explain)
7		_		
8	= Tota	l Cov	/er	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1				
2				
3				Hydrophytic
4				Vegetation Present? Yes No
	= Tota	l Cov	rer	200 C C C C C C C C C C C C C C C C C C
Remarks:				
				1

~	~	

Depth Matrix	Redox Features	
(inches) Color (mojst) %	Color (moist) % Type Lo	c <sup>2</sup> Texture Remarks
0-19 1042 3/4		SANOVCIAU
<del></del>		T
<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> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6) 5 cm Mucky Mineral (A7)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	
Sufficiency Willerar (A7) Muck Presence (A8)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
Postrictive Lover (if shorring)	9	
Restrictive Layer (if observed):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:	FARTHWORMS AZESEN	
IVDBOLOGY		- <del>-</del>
Wetland Hydrology Indicators:	vahoak all that apphi	Secondary ladicators (minimum of two years)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required	CANADO MARIA DE JOSE MARIA	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li><li>Hydrogen Sulfide Odor (C1)</li></ul>	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required.  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living R</li> </ul>	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) tcots (C3) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living R</li> <li>Presence of Reduced Iron (C4)</li> </ul>	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Reresence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Represence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
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Wetland Hydrology Indicators:  Primary Indicators (minimum of one required of surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Cots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
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Wetland Hydrology Indicators:  Primary Indicators (minimum of one required)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  Situration Present? Yes N  Includes capillary fringe)  Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required of surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)  Describe Recorded Data (stream gauge, mor	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living R Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soi Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Coots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Is (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes

# Photos of Sample Point 22



Soil pit.



General view of the observation point.

WETLAND DETERMI	NATION E	DATA FORM –, Ca	ribbean Islands Region
Project/Site: Yabocoa Solar Park	Mun	icipality/Town: Yak	Sampling Date: March 1
Applicant/Owner: YFN Yabucog Sola	U. LLC	\$	PR or USVI: P12 Sampling Point: YSP 2
Investigator(s): A. Cubing			state: Colmino Nuevo
Landform (hillslope, terrace, etc.):		Local relief (concave, c	convex, none): +(a+ Slope (%):
Lat: 18 02 32.0" Long: C		0013.6"	_ Datum: NAD 83
	( )	. /	NWI classification:
Are climatic / hydrologic conditions on the site typical for thi		Report Anna Control of the Control o	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology  Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes No eded, explain any answers in Remarks.)
			Denis de partir o la resta de la companyo del companyo del companyo de la companyo de la companyo de la companyo del comp
SUMMARY OF FINDINGS – Attach site map	snowing	sampling point i	ocations, transects, important features, etc.
Hydric Soil Present?  Wetland Hydrology Present?  Yes  N	lo lo	Is the Sampled within a Wetlar	
Remarks:			
i i			
VEGETATION – Use scientific names of plan	its.	,	
•	Absolute	Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:) 1	% Cover	Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			Species Across All Strata: (B)
4 5			Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
		= Total Cover	100 20
Sabilito/Stirub Stratum (Plot Size)			Prevalence Index worksheet:
1 2.			OBL species x 1 =
3		,	FACW species x 2 =
4			FAC species x 3 =
5	-0.		FACU species x 4 =
·-		= Total Cover	UPL species x 5 =
Herb Stratum (Plot size:)	ſ.,		Column Totals: (A) (B)
1. Eleochours interstructe	60	9 031	
2. En ochlor polystachya	<u>TO</u>	y Trecw	Prevalence Index = B/A =
3			Hydrophytic Vegetation Indicators:
4			1 - Rapid Test for Hydrophytic Vegetation
5			2 - Dominance Test is >50%
6	-,,		3 - Prevalence Index is ≤3.01
7	-		Problematic Hydrophytic Vegetation¹ (Explain)
8	Too		
Woody Vine Stratum (Plot size:)	100	= Total Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1		<del></del>	
2			
3			Hydrophytic Vegetation
4		- Total Cours	Present? Yes No
Remarks:	_	= Total Cover	

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0	u	1	L.

	Vann
Sampling Point:	12173

	n needed to document the indicator or confir	in the absence of indicators.)
Depth Matrix	Redox Features	,
(inches) Color (moist) %	Color (moist) % Type Loc2	Texture Remarks
0-10 10422/1 100		
10-17 GLEY /N		
		-
	27.87	W. W
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=F	Peduced Matrix MS-Macked Sand Crains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	veduced Matrix, Mo-Masked Sarid Grains.	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	<sup>3</sup> Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Туре:	<u></u>	
Depth (inches):	<u></u>	Hydric Soil Present? Yes No
Remarks:	4 1 2	
Spane	nted soils	
	4 2013	
HYDROLOGY		
Wetland Hydrology Indicators:	check all that apply)	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required;	Water ax 1 San Dr. Awar School Common	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one required: Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Bydrogen Sulfide Odor (C1)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roots	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roots     Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Rcots     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils (C	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
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Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Rcots     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils (C     Thin Muck Surface (C7)     Fiddler Crab Burrows (C10)     Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)  Describe Recorded Data (stream gauge, mon	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)  Describe Recorded Data (stream gauge, mon	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)  Describe Recorded Data (stream gauge, mon	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)  Describe Recorded Data (stream gauge, mon	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required;  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  (includes capillary fringe)  Describe Recorded Data (stream gauge, mon	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rcots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wet	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)



Soil pit.



WETLAND DETERMINATION DATA	A FORM – Cari	ibbean Islands Region
Project/Site: Yabycoa Solat Park Municipa	dity/Town: Yak	Sampling Date: March 17, 2013
Applicant/Owner: YFN 190000 Solas Park,		R or USVI: PIZ_ Sampling Point: 45P 24
Investigator(s):	Ward/Esta	ate: Camuno Nuevo
Landform (hillslope, terrace, etc.): (COCSTO DOLO Local Lat: 18 02 22 0) Long: (COS 50 50 6	relief (concave, co	nvex, none): Flat Slope (%):
Soil Map Unit Name: VW VIVI Locan		NWI classification: PEM IA
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 distur		Iormal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrologynaturally problem	natic? (If nee	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing san	npling point lo	cations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No  No  No  No  No  No  No  No  No  No	Is the Sampled A	
Remarks:		
VEGETATION – Use scientific names of plants.		
	minant Indicator	Dominance Test worksheet:
	ecies? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2		Total Number of Dominant
3		Species Across All Strata: (B)
5.		Percent of Dominant Species That Are OBL, FACW, or FAC:(A/B)
	otal Cover	The second control of Collection Control of Second
Sapling/Shrub Stratum (Plot size:)		Prevalence Index worksheet:  Total % Cover of: Multiply by:
1		
2		FACW species $(CC)$ x2 = $(CC)$
4		FAC species x 3 =
5		FACU species 40 x 4 = 160
	otal Cover	UPL species x 5 =
Herb Stratum (Plot size:)  1	Y. FACIN	Column Totals: $(A)$ $(A)$ $(B)$
2. Harricum Maximum 40	7 FACU	Prevalence Index = B/A =
3,		Hydrophytic Vegetation Indicators:
4		1 - Rapid Test for Hydrophytic Vegetation
5		2 - Dominance Test is >50%
6,		3 - Prevalence Index is ≤3.01
		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8	etal Causas	Indicators of hydric soil and wetland hydrology must
<u>Woody Vine Stratum</u> (Plot size:)	Service Control of the Control of th	be present, unless disturbed or problematic.
1,		
2		10.40
3		Hydrophytic Vegetation
4	otal Cover	Present? Yes No No
Remarks:		
		9

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J	u	ı	L.

Profile Description: (Describe to the depth	n needed to document the indicator or confir	m the absence of indicators )
Depth Matrix	Redox Features	in are absence of malouters.
(inches) Color (moist) %	Color (moist) % Type Loc <sup>2</sup>	Texture Remarks
000 1000		CLAY
0-16 101244		
		*
		* ( <del></del>
		8 ( <del></del>
		· (************************************
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=F	Reduced Matrix MS=Masked Sand Grains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators:	The state of the s	Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	31 de la companya de
Muck Presence (A8) Depleted Below Dark Surface (A11)	<ul><li>Redox Dark Surface (F6)</li><li>Depleted Dark Surface (F7)</li></ul>	<sup>3</sup> Indicators of hydrophytic vegetation and wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
		amess distarbed of problematic.
Restrictive Layer (if observed):		
Type:	<del></del>	
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
	0 0	0-10
	Compacte	D 7017
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required;	check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)		
High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	<ul> <li>Surface Soil Cracks (B6)</li> <li>Sparsely Vegetated Concave Surface (B8)</li> </ul>
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Water Marks (B1)	Oxidized Rhizospheres on Living Roots	
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (C	
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	Shallow Aquitard (D3)
Iron Deposits (B5)	Fiddler Crab Burrows (C10)	FAC-Neutral Test (D5)
Inundation Visible on Aerial Imagery (B7)		
Field Observations:		
Surface Water Present? Yes No	O Depth (inches):	
Water Table Present? Yes No		
Saturation Present? Yes No		tland Hydrology Present? Yes No
(includes capillary fringe)	Depth (inches): Wel	
Describe Recorded Data (stream gauge, mon	o Depth (inches): Well itoring well, aerial photos, previous inspections)	
Describe Recorded Data (stream gauge, mon		
Describe Recorded Data (stream gauge, mon Remarks:		
		, , , , , , , , , , , , , , , , , , , ,
		, , , , , , , , , , , , , , , , , , , ,





General view of the observation point.

WETLAND DETERMIN	ATION D	ATA F	ORM - Ca	ribbean Islands Region
			own: You	10
Applicant/Owner: YN Yalacoa Sal	C5, L	LC		PR or USVI: Sampling Point:
Investigator(s): A. Cubina			Ward/Es	tate: Camino Nuew
Landform (hillslope, terrace, etc.): COCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCOCO				onvex, none):
Soil Map Unit Name: CF-Cc OSO SILT				NWI classification: UP Cind
Are climatic / hydrologic conditions on the site typical for this	1			
Are Vegetation, Soil, or Hydrologysi				Normal Circumstances" present? Yes No
				eded, explain any answers in Remarks.)
Are Vegetation, Soil, or Hydrologyn				
SUMMARY OF FINDINGS - Attach site map s	showing	sampli	ng point le	ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes V No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks:			the Sampled thin a Wetlan	
VEGETATION – Use scientific names of plant				
Tree Stratum (Plot size:)			nt Indicator s? Status	Dominance Test worksheet:
1			-	Number of Dominant Species That Are OBL, FACW, or FAC:(A)
2				Total Number of Dominant Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
Coalling Obsub Charters (Diet sies)		= Total C	Cover	Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:)				Total % Cover of: Multiply by:
1 2.				OBL species x 1 =
3.				FACW species 10 x2= 20
4.			_	FAC species 30 x3 = 90
5	32-30-30			FACU species x 4 =
		= Total	Cover	UPL species x 5 =
Herb Stratum (Plot size:	0.0	./	-11	Column Totals: 40 (A) 10 (B)
1. Commelina dittusa	10		- FAC	Prevalence Index = B/A = 2.75
2. Mimosa Pigica	10	N	TAC	Prevalence Index = B/A =  Hydrophytic Vegetation Indicators:
3. Eriochlow Doly Stackya	->	$\sim$	THE	1 - Rapid Test for Hydrophytic Vegetation
4. Cyperus elecans !		_~	FACU	2- Dominance Test is >50%
5		-		3 - Prevalence Index is ≤3.0
6		-		Problematic Hydrophytic Vegetation (Explain)
7		9		
Woody Vine Stratum (Plot size:)	40	= Total (	Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1				
2			_	
3			_	Hydrophytic
4		-	_	Vegetation Present? Yes No
		= Total (	Cover	
Remarks: 60% exposed s	1132			

-	-			
	63	п	в	

	cription: (Describe)		i liceaca lo doca		ilaicatoi c		i tile appelled of file	
Depth	Matrix		Redo	ox Features	S			
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-10	10423/3	80	10424/4	20	12M		CLAY	
10-21	104/23/2	80	10425/4	30	12M		SILTYCLAY	/
				-			10	
		<del></del>				-	(F)	
-								
¹Type: C=C	Concentration, D=Depl	letion, RM=I	Reduced Matrix, M	S=Masked	Sand Gra	ins.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Indicators for Pi	oblematic Hydric Soils <sup>3</sup> :
Histoso	(A1)		Sandy Gleye	ed Matrix (8	S4)		Stratified Lay	vers (A5)
Histic E	pipedon (A2)		Sandy Redo	x (S5)			Red Parent I	Vlaterial (F21)
Transport of the second	listic (A3)		Stripped Ma					Dark Surface (TF12)
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	en Sulfide (A4)		Dark Surface				Other (Expla	in in Remarks)
10 10 10 10 10 10 10 10 10 10 10 10 10 1	Bodies (A6)		Loamy Gley		F2)			
A CONTRACTOR OF THE PERSON OF	ucky Mineral (A7) resence (A8)		Depleted Ma		·6/		3 Indicators of hyd	Irophytic vegetation and
200000 00000000000000000000000000000000	ed Below Dark Surface	- (Δ11)	Redox Dark Depleted Da				100 € 100 E	plogy must be present,
9 10 10 00 00 00 00 00 00 00 00 00 00 00	ark Surface (A12)	(((1))	Redox Depr				a Summing Sum	ped or problematic.
( <del></del>	181 9						T	and the second s
	Layer (if observed):							
Type:								10 11 11
	nches):						Hydric Soil Prese	
Remarks:	1.01	1. Cont	man for	- h	20.00	0 h	elew 14	/ (
	Defi	etech	There is 1)	e in	5//-	C ET	11000	
HADBOLO	NCV							
			5)					
Wetland Hy	drology Indicators:		ž.	LA				
Wetland Hy Primary Indi	vdrology Indicators: cators (minimum of o	ne required:					The second secon	icators (minimum of two required)
Wetland Hy Primary Indi Surface	rdrology Indicators: cators (minimum of o Water (A1)	ne required:	Water-Sta	ined Leave	28 93		Surface S	oil Cracks (B6)
Wetland Hy Primary Indi Surface High Wa	rdrology Indicators: cators (minimum of oi Water (A1) ater Table (A2)	ne required:	Water-Sta	ined Leave auna (B13)	)		Surface S Sparsely	oil Cracks (B6) /egetated Concave Surface (B8)
Wetland Hy Primary Indi Surface High Wa	rdrology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3)	ne required:	Water-Sta Aquatic Fa Hydrogen	ained Leave auna (B13) Sulfide Oc	) dor (C1)		Surface S Sparsely V Drainage	oil Cracks (B6) /egetated Concave Surface (B8) Patterns (B10)
Wetland Hy Primary Indi Surface High Wa Saturati Water M	rdrology Indicators: cators (minimum of oi Water (A1) ater Table (A2) ion (A3) Marks (B1)	ne required:	<ul><li>Water-Sta</li><li>Aquatic Fa</li><li>Hydrogen</li><li>Oxidized</li></ul>	ained Leave auna (B13) Sulfide Od Rhizosphei	) dor (C1) res on Livi	,9 <del>70</del>	Surface S Sparsely V Drainage (C3) Dry-Seaso	oil Cracks (B6) /egetated Concave Surface (B8) Patterns (B10) on Water Table (C2)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime	rdrology Indicators: cators (minimum of oi Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2)	ne required:	Water-Sta Aquatic Fi Hydrogen Oxidized	nined Leave auna (B13) Sulfide Od Rhizosphei of Reduce	) dor (C1) res on Livi d Iron (C4	)	Surface S Sparsely \ Drainage (C3) Dry-Seaso Saturation	oil Cracks (B6) /egetated Concave Surface (B8) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9)
Wetland Hy Primary Indi Surface High Water M Water M Sedime Drift De	rdrology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3) Warks (B1) ont Deposits (B2) posits (B3)	ne required:	Water-Sta Aquatic Fi Hydrogen Oxidized Presence Recent Iro	nined Leave auna (B13) Sulfide Oc Rhizospher of Reduce on Reduction	) dor (C1) res on Livir d Iron (C4 on in Tilled	)	Surface S Sparsely \ Drainage Dry-Seaso Saturation Geomorph	oil Cracks (B6) /egetated Concave Surface (B8) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Ma	rdrology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3) Warks (B1) what Deposits (B2) uposits (B3) at or Crust (B4)	ne required:	Water-Sta Aquatic Fi Hydrogen Oxidized Presence Recent Ird Thin Muck	ained Leave auna (B13) Sulfide Od Rhizosphei of Reduce on Reduction	) dor (C1) res on Livi d Iron (C4 on in Tilled C7)	)	Surface S Sparsely \ Drainage Dry-Sease Saturation Geomorph Shallow A	oil Cracks (B6) //egetated Concave Surface (B8) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3)
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Wetland Hy Primary Indi Surface High Water M Sedime Drift De Algal March Individual Iron Dep Inundati Field Obser Surface Water Table	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) iposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In rvations: ter Present? Ye	magery (B7) es N es N	Water-Sta Aquatic Fi Hydrogen Oxidized   Presence Recent Ird Thin Much Fiddler Cr Other (Ex	ained Leave auna (B13) Sulfide Oc Rhizospher of Reduce on Reduction Surface (reab Burrow plain in Re arches):	dor (C1) res on Livir d Iron (C4 on in Tilled C7) s (C10) marks)	) I Soils (Co	Surface S Sparsely N Drainage (C3) Dry-Sease Saturation Geomorph Shallow A FAC-Neut	oil Cracks (B6)  /egetated Concave Surface (B8)  Patterns (B10) on Water Table (C2)  Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5)
Wetland Hy Primary Indi  Surface High Wa Saturati Water M Sedime Drift De Algal Ma Iron De Inundati Field Obser Surface Wat Water Table Saturation F	rdrology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3) Warks (B1) int Deposits (B2) iposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In rvations: ter Present? Present? Ye	magery (B7) es N es N	Water-Sta Aquatic Fi Hydrogen Oxidized Presence Recent Ird Thin Much Fiddler Cr Other (Ex	ained Leave auna (B13) Sulfide Oc Rhizospher of Reduce on Reduction Surface (reab Burrow plain in Re arches):	dor (C1) res on Livir d Iron (C4 on in Tilled C7) s (C10) marks)	) I Soils (Co	Surface S Sparsely N Drainage (C3) Dry-Sease Saturation Geomorph Shallow A FAC-Neut	oil Cracks (B6) //egetated Concave Surface (B8) Patterns (B10) on Water Table (C2) Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal M Iron Dep Inundati Field Obser Surface Wat Water Table Saturation F (includes ca	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) iposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In rvations: ter Present? Ye	magery (B7) es N es N	Water-Sta Aquatic Fi Hydrogen Oxidized I Presence Recent Irc Thin Much Fiddler Cr Other (Ex Depth (in	ained Leave auna (B13) Sulfide Oc Rhizosphei of Reduce on Reductio c Surface (c rab Burrow plain in Re aches): aches):	dor (C1) res on Livir d Iron (C4) on in Tilled (C7) s (C10) marks)	) I Soils (Cr	Surface S Sparsely N Drainage (C3) Dry-Seaso Saturation Geomorph Shallow A FAC-Neut	oil Cracks (B6)  /egetated Concave Surface (B8)  Patterns (B10) on Water Table (C2)  Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal M Iron Dep Inundati Field Obser Surface Wat Water Table Saturation F (includes ca	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) iposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In rvations: ter Present? Present? Vie	magery (B7) es N es N	Water-Sta Aquatic Fi Hydrogen Oxidized I Presence Recent Irc Thin Much Fiddler Cr Other (Ex Depth (in	ained Leave auna (B13) Sulfide Oc Rhizosphei of Reduce on Reductio c Surface (c rab Burrow plain in Re aches): aches):	dor (C1) res on Livir d Iron (C4) on in Tilled (C7) s (C10) marks)	) I Soils (Cr	Surface S Sparsely N Drainage (C3) Dry-Seaso Saturation Geomorph Shallow A FAC-Neut	oil Cracks (B6)  /egetated Concave Surface (B8)  Patterns (B10) on Water Table (C2)  Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal M Iron Dep Inundati Field Obser Surface Wat Water Table Saturation F (includes ca	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) iposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In rvations: ter Present? Present? Vie	magery (B7) es N es N	Water-Sta Aquatic Fi Hydrogen Oxidized I Presence Recent Irc Thin Much Fiddler Cr Other (Ex Depth (in	ained Leave auna (B13) Sulfide Oc Rhizosphei of Reduce on Reductio s Surface ( rab Burrow plain in Re aches): aches):	dor (C1) res on Livir d Iron (C4) on in Tilled (C7) s (C10) marks)	) I Soils (Cr	Surface S Sparsely N Drainage (C3) Dry-Seaso Saturation Geomorph Shallow A FAC-Neut	oil Cracks (B6)  /egetated Concave Surface (B8)  Patterns (B10) on Water Table (C2)  Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Mandati Iron Dep Inundati Field Obser Surface Wat Water Table Saturation F (includes ca Describe Re	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) iposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In rvations: ter Present? Present? Vie	magery (B7) es N es N	Water-Sta Aquatic Fi Hydrogen Oxidized I Presence Recent Irc Thin Much Fiddler Cr Other (Ex Depth (in	ained Leave auna (B13) Sulfide Oc Rhizosphei of Reduce on Reductio s Surface ( rab Burrow plain in Re aches): aches):	dor (C1) res on Livir d Iron (C4) on in Tilled (C7) s (C10) marks)	) I Soils (Cr	Surface S Sparsely N Drainage (C3) Dry-Seaso Saturation Geomorph Shallow A FAC-Neut	oil Cracks (B6)  /egetated Concave Surface (B8)  Patterns (B10) on Water Table (C2)  Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Mandati Iron Dep Inundati Field Obser Surface Wat Water Table Saturation F (includes ca Describe Re	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) iposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In rvations: ter Present? Present? Vie	magery (B7) es N es N	Water-Sta Aquatic Fi Hydrogen Oxidized I Presence Recent Irc Thin Much Fiddler Cr Other (Ex Depth (in	ained Leave auna (B13) Sulfide Oc Rhizosphei of Reduce on Reductio s Surface ( rab Burrow plain in Re aches): aches):	dor (C1) res on Livir d Iron (C4) on in Tilled (C7) s (C10) marks)	) I Soils (Cr	Surface S Sparsely N Drainage (C3) Dry-Seaso Saturation Geomorph Shallow A FAC-Neut	oil Cracks (B6)  /egetated Concave Surface (B8)  Patterns (B10) on Water Table (C2)  Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5)
Wetland Hy Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Mandati Iron Dep Inundati Field Obser Surface Wat Water Table Saturation F (includes ca Describe Re	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) iposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In rvations: ter Present? Present? Vie	magery (B7) es N es N	Water-Sta Aquatic Fi Hydrogen Oxidized I Presence Recent Irc Thin Much Fiddler Cr Other (Ex Depth (in	ained Leave auna (B13) Sulfide Oc Rhizosphei of Reduce on Reductio s Surface ( rab Burrow plain in Re aches): aches):	dor (C1) res on Livir d Iron (C4) on in Tilled (C7) s (C10) marks)	) I Soils (Cr	Surface S Sparsely N Drainage (C3) Dry-Seaso Saturation Geomorph Shallow A FAC-Neut	oil Cracks (B6)  /egetated Concave Surface (B8)  Patterns (B10) on Water Table (C2)  Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5)
Primary Indi Surface High Wa Saturati Water M Sedime Drift De Algal Male Inundati Field Obser Surface Wal Water Table Saturation F (includes ca Describe Re	drology Indicators: cators (minimum of or Water (A1) ater Table (A2) ion (A3) Marks (B1) int Deposits (B2) iposits (B3) at or Crust (B4) posits (B5) ion Visible on Aerial In rvations: ter Present? Present? Vie	magery (B7) es N es N	Water-Sta Aquatic Fi Hydrogen Oxidized I Presence Recent Irc Thin Much Fiddler Cr Other (Ex Depth (in	ained Leave auna (B13) Sulfide Oc Rhizosphei of Reduce on Reductio s Surface ( rab Burrow plain in Re aches): aches):	dor (C1) res on Livir d Iron (C4) on in Tilled (C7) s (C10) marks)	) I Soils (Cr	Surface S Sparsely N Drainage (C3) Dry-Seaso Saturation Geomorph Shallow A FAC-Neut	oil Cracks (B6)  /egetated Concave Surface (B8)  Patterns (B10) on Water Table (C2)  Visible on Aerial Imagery (C9) nic Position (D2) quitard (D3) ral Test (D5)

, WETLAND DETER	MINATION DA	TA FORM - Ca	aribbean Islands Region
Project/Site: Yabucoa Solar Par	Municip	ality/Town: YCC	bocog Sampling Date: 15P2
Applicant/Owner: YFN Yabucco Sola	•		PR or USVI: PR Sampling Point MA 122
nvestigator(s): A Cobina	7		Estate: Camino Nine 20
andform (hillslope, terrace, etc.): Casa			convex, none): FICi+ Slope (%):
	65°50'4	9	Datum: NAOSS
Soil Map Unit Name: <u>CC-Colesa Sil</u>	tyclay		NWI classification: L'PLANO
are climatic / hydrologic conditions on the site typical for	this time of year?	Yes_ No_	(If no, explain in Remarks.)
re Vegetation, Soil, or Hydrology	significantly dist		"Normal Circumstances" present? Yes No
re Vegetation, Soil, or Hydrology			eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site ma	ap showing sa	mpling point	locations, transects, important features, etc.
Hydrophytic Vegetation Present?	No		
	No	Is the Sample	
Wetland Hydrology Present? Yes	No L	within a Wetla	and? Yes No
Remarks:			
CATTLE GRAZIN	16		
COETATION II			
EGETATION – Use scientific names of pl	25-77 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2		
Tree Stratum (Plot size:		ominant Indicator pecies? Status	Dominance Test worksheet:
			Number of Dominant Species That Are OBL, FACW, or FAC: (A)
).			That Are OBL, FACW, or FAC:(A)
3.			Total Number of Dominant
1.			Species Across All Strata:(B)
5.			Percent of Dominant Species
		otal Cover	That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)			Prevalence Index worksheet:
			Total % Cover of: Multiply by:
2			OBL species x 1 =
3			FACW species x 2 =
1			FAC species
j			FACU species x 4 =
Herb Stratum (Plot size:	=	Total Cover	UPL species x 5 =
1. Commelina Ciffusa	20	of EN	Column Totals:
Pasalum conjuction	70	TAC	Prevalence Index = B/A =3_0
Tasparen Carros State	<u> </u>	- FAC	Hydrophytic Vegetation Indicators:
•			1 - Rapid Test for Hydrophytic Vegetation
•			2 - Dominance Test is >50%
5			3 - Prevalence Index is ≤3.01
5			
5		otal Court	
5		otal Cover	3 - Prevalence Index is ≤3.01
5		otal Cover	3 - Prevalence Index is ≤3.01 Problematic Hydrophytic Vegetation1 (Explain) Indicators of hydric soil and wetland hydrology must
6	<u> </u>	otal Cover	3 - Prevalence Index is ≤3.01 Problematic Hydrophytic Vegetation1 (Explain) Indicators of hydric soil and wetland hydrology must
5	<u> </u>	otal Cover	Problematic Hydrophytic Vegetation (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
6	<u> </u>	otal Cover	Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic Vegetation
5	<u>+6</u> =T	otal Cover	3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain) ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Hydrophytic

Sampling Point: <u>YSP2</u>6

Profile Description: (Describe to the depth	. Hodada to document the manager of comme	·
Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type¹ Loc²	Texture Remarks
0-21 19423/3 60	+1218 40 RM	CLAV
below 8"	10423/1 30 17	1,
	<del></del>	
Trans Commission Benefities BM-5	Dadward Mahijir MC-Marked Cand Crains	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Type: C=Concentration, D=Depletion, RM=F Hydric Soil Indicators:	Reduced Matrix, MS=Wasked Sand Grains.	Indicators for Problematic Hydric Soils <sup>3</sup> :
9000 N 9000 NO	Sandy Clayed Matrix (SA)	Stratified Layers (A5)
Histosol (A1) Histic Epipedon (A2)	Sandy Gleyed Matrix (S4) Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	action (michigan transfer
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Type:		
Depth (inches):		Hydric Soil Present? Yes No
		Trydric ddir i tesenici. Tes E No
Remarks:		
HYDROLOGY		
HYDROLOGY  Wetland Hydrology Indicators:		
Wetland Hydrology Indicators:	check all that apply)	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required:	2000 S. CHI O AM MARKATA	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required:	Water-Stained Leaves (B9) Aquatic Fauna (B13)	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li><li>Hydrogen Sulfide Odor (C1)</li></ul>	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roots	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roots     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils (C	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roots     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Solls (C	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roots     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils (Carthin Muck Surface (C7)     Fiddler Crab Burrows (C10)     Other (Explain in Remarks)  Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes No	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present? Yes Now Saturation Present? Yes Now Saturation Present? Yes Now Now Saturation Present? Yes Now Now Saturation Present? Yes Now Now Yes Now Now Yes Now Now Yes Yes Yes Now Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wei	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present? Yes Now Saturation Present? Yes Now Saturation Present? Yes Now Now Saturation Present? Yes Now Now Saturation Present? Yes Now Now Yes Now Now Yes Now Now Yes Yes Yes Now Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present? Yes Now Saturation Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wei	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
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Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present? Yes Now Saturation Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wei	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present? Yes Now Saturation Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wei	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes Now Water Table Present? Yes Now Saturation Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wei	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Primary Indicators (minimum of one required:  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes Now Water Table Present? Yes Now Water T	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roots Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Wei	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETERMI	NATION D	ATA FO	RIVI – Car	ribbean Islands Region
Project/Site: 1ab)coa Selar Park	Muni	cipality/Tov	vn: Kab	Sampling Date: MA, 22, 26
Applicant/Owner: YFN YOUCOG Solo	5,46	<u> </u>	F	PR or USVI: P2 Sampling Point: 45P27
Investigator(s): A. Cubiria			_ Ward/Est	tate: Campo Nuevo
Landform (hillslope, terrace, etc.): Cccs.4ce.1 Lat: 18°02'47, 36°N Long: 6	plain 1 5 50	ocal relief (	concave, co	onvex, none):
Soil Map Unit Name:			,	NWI classification: UPCANP
Are climatic / hydrologic conditions on the site typical for th	is time of yea	r? Yes_L	No_	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology	significantly o	disturbed?	Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	naturally prob	olematic?	(If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map	showing	samplin	g point lo	ocations, transects, important features, etc.
Hydric Soil Present? Yes	No No	withi	e Sampled In a Wetlan	
VEGETATION – Use scientific names of pla		Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2				Total Number of Dominant
3				Species Across All Strata: (B)
5				Percent of Dominant Species That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size:)		= Total Co	ver	Prevalence Index worksheet:
1.				Total % Cover of:Multiply by:
2				OBL species x 1 =
3				FACW species x 2 =
4				FAC species x 3 =
5			-	FACU species x 4 =
61		= Total Co	over	UPL species x 5 =
Herb Stratum (Plot size:	10	4.3	T=0 -	Column Totals: (A) (B)
1 Commelina diffus		N	TAV	Book to the BA
2. taskalum vilatum		19	TACU	Prevalence Index = B/A =
3. Eleusmeindite	- 5	19	-ACC	Hydrophytic Vegetation Indicators:
4. Paspalum Conjectum			- HC	1 - Rapid Test for Hydrophytic Vegetation
51				2 - Dominance Test is >50%
6				3 - Prevalence Index is ≤3.01
7				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8				
Woody Vine Stratum (Plot size:) 1		= Total Co	ver	¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2				
3.				Hydrophytic
4				Vegetation /
		= Total Co	ver	Present? Yes No
Remarks: 45% expose	1001			
is it exposes	T 2011			

-	-	

Profile Description: (Describe to the depth needed to document the indicator or confirm	in the absence of indicators.)
Depth Matrix Redox Features	3000
(inches) Color (moist) % Color (moist) % Typ 31 Loc2	Texture Remarks
0-23 104K9/2 90 104R4/6 10 D	1 COUNT CIGY
16-23 10425/2 80 10425/2 20 RM	clav
<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> :
Histosol (A1) Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2) Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3) Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6) Loamy Gleyed Matrix (F2) 5 cm Mucky Mineral (A7) Depleted Matrix (F3)	
Sun Macky Milliotat (viv) Supreted Math (1.5) Muck Presence (A8) Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12) Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):	
Type:	
Depth (inches):	Hydric Soil Present? Yes No
Demositie:	174110 2011110001111 110
Depletion below 16"	
tepletion below 10	
,	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required: check all that apply)	Secondary Indicators (minimum of two required) Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required: check all that apply)  Surface Water (A1) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) High Water Table (A2) Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) High Water Table (A2) Water-Stained Leaves (B9) Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required: check all that apply)  Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required: check all that apply)  Surface Water (A1) Water-Stained Leaves (B9)  High Water Table (A2) Aquatic Fauna (B13)  Saturation (A3) Hydrogen Sulfide Odor (C1)  Water Marks (B1) Oxidized Rhizospheres on Living Roots	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) s (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)  Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) s (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) High Water Table (A2) Aquatic Fauna (B13) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Water Marks (B1) Sediment Deposits (B2) Presence of Reduced Iron (C4) Prift Deposits (B3)  Recent Iron Reduction in Tilled Soils (C	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required: check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required: check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required: check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) S (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)

WETLAND DETERMI	INATION D	ATA FORM - Car	ribbean Islands Region
Project/Site: 16/2000 Solar Park Applicant/Owner: YFN Yalucoc Solar Investigator(s): A Cubing	Munic		Sampling Date: MAY 29, 2014 PR or USVI: P. 2 Sampling Point: YSP28 tate: Ctyning Nievo
Landform (hillslope, terrace, etc.): COCS CL Lat: 180253.580 Long: 69	5°50'4	ocal relief (concave, co	onvex, none): F(C() Slope (%):
Are climatic / hydrologic conditions on the site typical for the			And the state of t
Are Vegetation, Soil, or Hydrology			Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology			eded, explain any answers in Remarks.)
	A STATE OF THE STA		ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes	No No No	Is the Sampled within a Wetlan	Area
VEGETATION – Use scientific names of pla	nts.		
Tree Stratum (Plot size:) 1)	% Cover	Dominant Indicator Species? Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant Species Across All Strata:  (B)
5		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:
1			Total % Cover of:         Multiply by:           OBL species         x 1 =           FACW species         x 2 =           FAC species         x 3 =           FACU species         x 4 =
Herb Stratum (Plot size: 51)  1. Passaclum Canjugatum	1 -	= Total Cover	UPL species
2			Hydrophytic Vegetation Indicators: 1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%3 - Prevalence Index is ≤3.0¹
7			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Woody Vine Stratum (Plot size:)  1	60	= Total Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2			Hydrophytic Vegetation Present? Yes No
Remarks:	/	= Total Cover	
to % exposec	1 501		

Sampling Point: YSF 28

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator o	or confirm	n the absence of indicators.)
Depth	Matrix		Redo	x Feature	S		
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Remarks
0-14	107123/4	100					LCAMYCLAY
14-24	10423/2	80	10424/6	20	RM		CLAU
			•				
					**************************************		
¹Type: C=Cd	oncentration, D=Depl	etion RM=R	educed Matrix M	S=Masker	Sand Gra	ins	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil I							Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Sandy Gleye	d Matrix (	S4)		Stratified Layers (A5)
12	pipedon (A2)		Sandy Redo				Red Parent Material (F21)
Black Hi	stic (A3)		Stripped Mat	rix (S6)			Very Shallow Dark Surface (TF12)
Hydroge	n Sulfide (A4)		Dark Surface				Other (Explain in Remarks)
Artistantia de la compansión de la compa	Bodies (A6)		Loamy Gleye		F2)		
	cky Mineral (A7)		Depleted Ma	The state of the s	-0)		3,
	esence (A8)	(844)	Redox Dark				Indicators of hydrophytic vegetation and
	d Below Dark Surface irk Surface (A12)	(A11)	Depleted Da Redox Depreted				wetland hydrology must be present, unless disturbed or problematic.
The same sections			Redox Depre	25310115 (1	0)		arriess disturbed or problematic.
Restrictive I	.ayer (if observed):						
Type:			<del></del>				
Depth (inc	ches):						Hydric Soil Present? Yes No
Remarks:							
HYDROLO	GY						
Wetland Hyd	drology Indicators:						
Primary India	ators (minimum of or	ne required:	check all that app	y)			Secondary Indicators (minimum of two required)
Surface	Water (A1)		Water-Sta	ined Leav	es (B9)		Surface Soil Cracks (B6)
High Wa	ter Table (A2)		Aquatic Fa	auna (B13	)		Sparsely Vegetated Concave Surface (B8)
Saturation	on (A3)		Hydrogen	Sulfide O	dor (C1)		Drainage Patterns (B10)
Water M	arks (B1)		Oxidized I	Rhizosphe	res on Livi	ing Roots	(C3) Dry-Season Water Table (C2)
Sedimer	t Deposits (B2)		Presence	of Reduce	ed Iron (C4	l)	Saturation Visible on Aerial Imagery (C9)
Drift Dep	osits (B3)		Recent Iro	n Reducti	on in Tilled	d Soils (C	6) Geomorphic Position (D2)
Algai Ma	t or Crust (B4)		Thin Muck	Surface (	(C7)		Shallow Aquitard (D3)
Iron Dep	osits (B5)		Fiddler Cr	ab Burrow	/s (C10)		FAC-Neutral Test (D5)
Inundati	on Visible on Aerial Ir	nagery (B7)	Other (Ex	plain in Re	emarks)		
Field Obser	vations:		/				
Surface Wate	er Present? Ye	es No	Depth (in	ches):		_	
Water Table	Present? Ye	es No	Depth (in	ches):			1/
Saturation Pr	resent? Ye	es No	Depth (in	ches):		Wetl	land Hydrology Present? Yes No
(includes cap		action man	toring well periol	nh otan nr	oui au a in a	nostions\	if available:
Describe Re	corded Data (stream	gauge, mon	toring well, aerial	pnotos, pr	evious ins	pections),	II available.
Remarks:							
1							

WETLAND DETERMIN	IATION D	ATA FORM – Ça	ribbean Islands Region
Project/Site: Yabucaa Solar Park	Munic	ipality/Town: Yak	Sampling Date: May 24, 24
Applicant/Owner: YFN Yabacca Sola	J. LLC	F	PR or USVI: Sampling Point: \SP 29
Investigator(s): A. CUDITA		Ward/Es	tate:
Landform (hillslope, terrace, etc.): Coc Stal 2 Lat: 18°02'52, 85°N Long: 65	5°50'4	ocal relief (conçave, c	onvex, none): <u>FLQ +</u> Slope (%): _ Datum: <u>NADB3</u>
Soil Map Unit Name: Www-Vi Viloam			NWI classification: UPLAND
Are climatic / hydrologic conditions on the site typical for this	s time of year	? YesNo	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrologys	ignificantly di	sturbed? Are "	Normal Circumstances" present? Yes 1 No
Are Vegetation, Soil, or Hydrology r	aturally probl	ematic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing s	sampling point le	ocations, transects, important features, etc.
./			,
Hydric Soil Present? Yes N		Is the Sampled within a Wetlar	•
Remarks:			
CATTLE 60	AZIN	lG	
VEGETATION – Use scientific names of plan	ts.		
		Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)  1)		Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2.			
3.			Total Number of Dominant Species Across All Strata:  (B)
4.			200
5		T-1-1 0	Percent of Dominant Species That Are OBL, FACW, or FAC:
Sapling/Shrub Stratum (Plot size:		Total Cover	Prevalence Index worksheet:
1. Mimosa Piggs	30	Y HAC	Total % Cover of: Multiply by:
2			OBL species x 1 =
3			FACW species x 2 =
4			FAC species x 3 =
5			FACU species x 4 =
5		= Total Cover	UPL species x 5 =
Herb Stratum (Plot size:)  1. USP VM CONJUCCTON	95	4 FAC	Column Totals: (A) (B)
2 Commeling Outuss		N HAC	Prevalence Index = B/A =
3			Hydrophytic Vegetation Indicators:
4			1 - Rapid Test for Hydrophytic Vegetation2 - Dominance Test is >50%
5			
6			3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)
7			Problematic Hydrophytic Vegetation (Explain)
8			Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)		= Total Cover	be present, unless disturbed or problematic.
1			
2			
3			Hydrophytic
4			Vegetation Present? Yes No
	=	Total Cover	
Remarks:			

	pth needed to document the indicator or c	onlim the absence of indicators.)
epth Matrix nches) Color (moist) %	Redox Features  Color (moist) % Type <sup>1</sup> L	oc <sup>2</sup> Texture Remarks
7-12 10003/2 (15)	104125/8 10 RM	
- 00 107K/3 10	1010/8 10 24	Sityclay
	I=Reduced Matrix, MS=Masked Sand Grains	
dric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4) Organic Bodies (A6)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6) 5 cm Mucky Mineral (A7)	Loamy Gleyed Matrix (F2) Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
strictive Layer (if observed):		
strictive Layer (il observed).		
Typo:		
Type:	<del></del>	Undels Call Presents - Van - Na 5
Type: Depth (inches): emarks:		Hydric Soll Present? Yes No
Depth (inches): marks:		Hydric Soll Present? Yes No
Depth (inches):marks:		Hydric Soll Present? Yes No
Depth (inches):		
Depth (inches): marks:  DROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one require		Secondary Indicators (minimum of two requir
Depth (inches): marks:  DROLOGY  Stland Hydrology Indicators: mary Indicators (minimum of one require	Water-Stained Leaves (B9)	Secondary Indicators (minimum of two requir Surface Soil Cracks (B6)
Depth (inches): marks:  DROLOGY  etland Hydrology Indicators: mary Indicators (minimum of one require , Surface Water (A1) , High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Secondary Indicators (minimum of two requir — Surface Soil Cracks (B6) — Sparsely Vegetated Concave Surface (B
Depth (inches):	<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li><li>Hydrogen Sulfide Odor (C1)</li></ul>	Secondary Indicators (minimum of two requir Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B Drainage Patterns (B10)
Depth (inches):	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living I</li> </ul>	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3) Dry-Season Water Table (C2)
DROLOGY  Itland Hydrology Indicators:  mary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4)	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B)  Drainage Patterns (B10)  Roots (C3)  Saturation Visible on Aerial Imagery (C9)
DROLOGY  Interest of the second of the secon	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Sils (C6)  Geomorphic Position (D2)
Depth (inches):	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7)	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  sils (C6)  Geomorphic Position (D2)  Shallow Aquitard (D3)
Depth (inches):	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)
DROLOGY  Itland Hydrology Indicators: mary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  sils (C6)  Geomorphic Position (D2)  Shallow Aquitard (D3)
DROLOGY  Itland Hydrology Indicators: mary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (Bild Observations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living II Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  sils (C6)  Geomorphic Position (D2)  Shallow Aquitard (D3)
DROLOGY  Itland Hydrology Indicators: mary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (Bild Observations: Iface Water Present?  Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  sils (C6)  Geomorphic Position (D2)  Shallow Aquitard (D3)
DROLOGY  Interpretation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Bater County of the Co	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living II Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)
DROLOGY  Interpretation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Base (B4) (B4) (B4)  Interpretation (B5)  I	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living I Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  sils (C6)  Geomorphic Position (D2)  Shallow Aquitard (D3)
DROLOGY  Interpretation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B1)  Indicators (B1)  Indicators (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B1)  Indicators (B2)  Indicators (B3)  Indicators (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B1)  Indicators (B4)  Indicators (B5)  Inundation Visible on Aerial Imagery (B1)  Indicators (B3)  Indicators (B4)  Indicators (B3)  Indicators (B3)  Indicators (B4)  Indicato	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living II Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
DROLOGY  Stland Hydrology Indicators: mary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (Beld Observations: rface Water Present? Interest Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living II Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two requires and surface Soil Cracks (B6)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (Becomes and surface (Becomes and surface)  Proof (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitand (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
DROLOGY  Stland Hydrology Indicators: mary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (Based Water Present?  Inter Table Present?  Inter Table Present?  Inter Table Recorded Data (stream gauge, marks)  Seribe Recorded Data (stream gauge, marks)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living II Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
DROLOGY  Stland Hydrology Indicators: mary Indicators (minimum of one require) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (Beld Observations: rface Water Present? Interest Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living II Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No
DROLOGY  Interpretation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Based Water Present?  Iter Table Present?  Interpretation (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Based Water Present?  Iter Table Present?  Iter Table Present?  Interpretation Present?  Interpretation Present?  Iter Table Recorded Data (stream gauge, manual procession of the present o	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living II Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Sc Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): No Depth (inches):	Secondary Indicators (minimum of two requir  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B  Drainage Patterns (B10)  Roots (C3)  Dry-Season Water Table (C2)  Saturation Visible on Aerial Imagery (C9)  Shallow Aquitard (D3)  FAC-Neutral Test (D5)  Wetland Hydrology Present? Yes No

WETLAND DETERMIN	NATION D	ATA FORM - Ça	ribbean Islands Regi	
Project/Site: 1abycaa, Solar Park	Muni	cipality/Town: Yak	DUC OCC S	Sampling Date: May 29, 2014
Applicant/Owner: YFN Yabicaa Salas, 1	LLC		PR or USVI: S	Sampling Point: YSP 30
Investigator(s): A Cubinci		Ward/Es	tate: <u>Camino</u>	Nueva
Landform (hillslope, terrace, etc.): Coastal 1  Lat: 18°02'45: 72°N Long: 6	2 ain 1	ocal relief (concave, c	onvex, none): <u>Fla+</u> _ Datum: <u>NAD 83</u>	Slope (%):
	1 010		NWI classificat	1-1-0
Are climatic / hydrologic conditions on the site typical for thi	s time of yea	/		
Are Vegetation, Soil, or Hydrologys	significantly of	disturbed? Are	Normal Circumstances" pre	esent? Yes Description No
Are Vegetation, Soil, or Hydrology r	aturally prob	olematic? (If ne	eded, explain any answers	in Remarks.)
SUMMARY OF FINDINGS - Attach site map	showing	sampling point le	ocations, transects, i	important features, etc.
	0 1	Is the Sampled within a Wetlar		_ No
VEGETATION – Use scientific names of plan	ts.			
Tree Stratum (Plot size:) 1)		Dominant Indicator Species? Status	Dominance Test worksh Number of Dominant Spe That Are OBL, FACW, or	ecies
3	100		Total Number of Dominar Species Across All Strata	
5	•	= Total Cover	Percent of Dominant Spe That Are OBL, FACW, or	
Sapling/Shrub Stratum (Plot size:)	10	1/1 -	Prevalence Index works	sheet:
1. Min105021915	10	N HAC	Total % Cover of:	
2			The Designation of the Control of th	x 1 =
3	-	A CONTRACTOR OF THE CONTRACTOR	FACW species	x 3 =
4	-		FAC species	The state of the s
0	10	= Total Cover		x 5 =
Herb Stratum (Plot size:)	100	- Total Cover		(A) (B)
1. Tagailum conjuscitum	_100_	I TAC	Prevalence Index =	= B/A =
3.			Hydrophytic Vegetation	
4.			1 - Rapid Test for Hy	drophytic Vegetation
5			2 - Dominance Test i	s >50%
6.			3 - Prevalence Index	
7				ytic Vegetation <sup>1</sup> (Explain)
8.				
Woody Vine Stratum (Plot size:)  1.	100	= Total Cover	Indicators of hydric soil a be present, unless disturt	and wetland hydrology must bed or problematic.
2.				
3.			Hydrophytic	
4			Vegetation Present? Yes	No
		= Total Cover	Lieseiit: 162	NO
Remarks:				

Compling Doint:	YSP30
Sampling Point:	10, 10.

Depth Matrix	Redox Features		
(inches) Color (moist) %		Loc <sup>2</sup> Texture	Remarks
0-19 104124/3 95	10425/8 5 RM		
		The Control of the Co	
Type: C=Concentration D=Depletion RM	======================================	s <sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
lydric Soil Indicators:	Troadood Mathir, Mo Maskod Carla Crair		r Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified	
Histic Epipedon (A2)	Sandy Redox (S5)	CONTRACTOR OF THE PROPERTY OF	ent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	And the second second	llow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (E)	rplain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)		
_ 5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	<b>8</b> 0 0 00 0	
Muck Presence (A8)	Redox Dark Surface (F6)		hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)		ydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless dis	turbed or problematic.
Restrictive Layer (if observed):			
Туре:			1
Depth (inches):		Hydric Soil Pr	esent? Yes No
emarks:			
Remarks:			
YDROLOGY			
YDROLOGY Vetland Hydrology Indicators:	d: abook all that apply)	Secondary	Indicators (minimum of two required
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require			
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1)	Water-Stained Leaves (B9)	Surfac	e Soil Cracks (B6)
YDROLOGY  Vetland Hydrology Indicators:  Vrimary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	Surfac Sparso	e Soil Cracks (B6) sly Vegetated Concave Surface (B8)
TDROLOGY  Vetland Hydrology Indicators:  Inimary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li><li>Hydrogen Sulfide Odor (C1)</li></ul>	Surfac Sparso Draina	e Soil Cracks (B6) Bly Vegetated Concave Surface (B8) ge Patterns (B10)
YDROLOGY  Vetland Hydrology Indicators:  Vrimary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	<ul> <li>Water-Stained Leaves (B9)</li> <li>Aquatic Fauna (B13)</li> <li>Hydrogen Sulfide Odor (C1)</li> <li>Oxidized Rhizospheres on Living</li> </ul>	Surfac Sparse Draina Roots (C3) Dry-Se	e Soil Cracks (B6) Bly Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2)
VDROLOGY Vetland Hydrology Indicators: Inimary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)	Surfac Sparse Draina Roots (C3) Satura	e Soil Cracks (B6) bly Vegetated Concave Surface (B8) ge Patterns (B10) ason Water Table (C2) tion Visible on Aerial Imagery (C9)
VDROLOGY Vetland Hydrology Indicators: Verimary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S	Surfac Sparse Draina Roots (C3) Dry-Se Satura colls (C6) Geom-	e Soil Cracks (B6) bly Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2)
YDROLOGY Vetland Hydrology Indicators: Primary Indicators (minimum of one require Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled S     Thin Muck Surface (C7)	Surfac Sparso Draina Roots (C3) Dry-Se Satura soils (C6) Geom Shallo	e Soil Cracks (B6) bly Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
POROLOGY  Vetland Hydrology Indicators:  rimary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surfac Sparso Draina Roots (C3) Dry-Se Satura soils (C6) Geom Shallo	e Soil Cracks (B6) bly Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2)
YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surfac Sparso Draina Roots (C3) Dry-Se Satura soils (C6) Geom Shallo	e Soil Cracks (B6) bly Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Bit in the company of the comp	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surfac Sparso Draina Roots (C3) Dry-Se Satura soils (C6) Geom Shallo	e Soil Cracks (B6) bly Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Billing of Company)  Surface Water Present?  Yes	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surfac Sparso Draina Roots (C3) Dry-Se Satura soils (C6) Geom Shallo	e Soil Cracks (B6) bly Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3)
YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Brield Observations:  Surface Water Present?  Ves  Water Table Present?  Yes  Ves  Ves  Ves  Verimination Visible on Verimination Vesion Ves  Ves  Ves  Ves	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Surfac Sparso Draina Roots (C3) Dry-Se Satura Geom Shallo FAC-N	e Soil Cracks (B6)  ely Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Briefled Observations:  Surface Water Present?  Vater Table Present?  Yes  Saturation Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surfac Sparso Draina Roots (C3) Dry-Se Satura soils (C6) Geom Shallo	e Soil Cracks (B6)  ely Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Berield Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Surfac Sparso Sparso Draina Roots (C3) Dry-Se Satura Soils (C6) Geom FAC-N  Wetland Hydrology R	e Soil Cracks (B6)  ely Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (BField Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  Saturation Present?  Yes  Includes capillary fringe)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Surfac Sparso Sparso Draina Roots (C3) Dry-Se Satura Soils (C6) Geom FAC-N  Wetland Hydrology R	e Soil Cracks (B6)  ely Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (BField Observations: Surface Water Present? Water Table Present? Yes Saturation Present? Yes includes capillary fringe) Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Surfac Sparso Sparso Draina Roots (C3) Dry-Se Satura Soils (C6) Geom FAC-N  Wetland Hydrology R	ely Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (BField Observations:  Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  Saturation Present?  Yes  Includes capillary fringe)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Surfac Sparso Sparso Draina Roots (C3) Dry-Se Satura Soils (C6) Geom FAC-N  Wetland Hydrology R	e Soil Cracks (B6)  ely Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Billion Observations: Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  includes capillary fringe) Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Surfac Sparso Sparso Draina Roots (C3) Dry-Se Satura Soils (C6) Geom FAC-N  Wetland Hydrology R	e Soil Cracks (B6)  ely Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Billied Observations: Surface Water Present?  Vater Table Present?  Ves  Includes capillary fringe)  Describe Recorded Data (stream gauge, modeling to the requirement of the control of the contro	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Surfac Sparso Sparso Draina Roots (C3) Dry-Se Satura Soils (C6) Geom FAC-N  Wetland Hydrology R	e Soil Cracks (B6)  ely Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one require  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (Billed Observations: Surface Water Present?  Water Table Present?  Yes  Saturation Present?  Yes  includes capillary fringe)  Describe Recorded Data (stream gauge, more	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled S Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  No Depth (inches): Depth (inches):	Surfac Sparso Sparso Draina Roots (C3) Dry-Se Satura Soils (C6) Geom FAC-N  Wetland Hydrology R	e Soil Cracks (B6)  ely Vegetated Concave Surface (B8) ge Patterns (B10) eason Water Table (C2) tion Visible on Aerial Imagery (C9) orphic Position (D2) w Aquitard (D3) leutral Test (D5)

WETLAND DETERMINAT	ION DATA	FORIVI - Cal	ribbean islands Region
Project/Site: Yalascaa, Salar Park	Company of the second of the s	ty/Town: Yak	170
Applicant/Owner: YAN Yabocca Solai	LLC	F	PR or USVI: Sampling Point: 457
Investigator(s): A.Cobina			tate: Camino Nuevo
Landform (hillslope, terrace, etc.): CCASTAL DIA Lat: 18°0238.82°N Long: 65°	LID Local I	10 / 10. 1	onvex, none):
Soil Map Unit Name: Cr-Colosa Silt	y cla	V -	NWI classification: UPLAND
Are climatic / hydrologic conditions on the site typical for this time	e of year? Ye	es_t/_ No	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology signifi	icantly disturb	oed? Are "	Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology nature	ally problema	tic? (If ne	eded, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map sho	wing sam	pling point lo	ocations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  No 1  Yes No 1  No 2  Remarks:		Is the Sampled within a Wetlan	1
VEGETATION – Use scientific names of plants.			
		inant Indicator cies? Status	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant Species Across All Strata: (B)
4			Percent of Dominant Species
5			That Are OBL, FACW, or FAC: (A/B)
Sapling/Shrub Stratum (Plot size:)	= l ot	al Cover	Prevalence Index worksheet:
1			Total % Cover of:Multiply by:
2			OBL species x1 =
3			FACW species x2 = 30
4			FACT species $x_3 = $ FACT species $x_4 = 260$
5			17100 species X +
Herb Stratum (Plot size:)	= 10	tal Cover	UPL species Column Totals: (A) 240 (B)
1. Eléusine moice 6	25 4	FACU	
2. Erioch log Polydigehya 1	5 N	TACIN	Prevalence Index = B/A = 377
3. Digitaria chiaris	CN	J UPL	Hydrophytic Vegetation Indicators:
4			1 - Rapid Test for Hydrophytic Vegetation
5			2 - Dominance Test is >50%
6			3 - Prevalence Index is ≤3.0¹
7			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
8	= Tot	al Cover	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2			
3			Hydrophytic
4			Vegetation
	= Tot	al Cover	Present? Yes No
Remarks:	Ded	SEI	
10/0 000	160	\ \ \	1

~	-	п	

Depth Matrix	Redox Features	
(inches) Color (moist) %	Color (moist) % Type¹ Loc²	1 -/
0-14 107123/3 95	10423/8 5 RM	_ leanyclas
		21 Di Don Units Mandris
Type: C=Concentration, D=Depletion, RM=F Hydric Soil Indicators:	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix. Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	
_ 5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	
_ Muck Presence (A8)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Dark Surface (F7) Redox Depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
Restrictive Layer (if observed):	0. A 13	
Туре:		
Depth (inches):		Hydric Soll Present? Yes No
YDROLOGY		
Vetland Hydrology Indicators:	check all that apply)	Secondary Indicators (minimum of two required
Vetland Hydrology Indicators: Primary Indicators (minimum of one required:		
Vetland Hydrology Indicators: Primary Indicators (minimum of one required: Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
Vetland Hydrology Indicators: Primary Indicators (minimum of one required: Surface Water (A1) High Water Table (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li></ul>
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)	<ul><li>Water-Stained Leaves (B9)</li><li>Aquatic Fauna (B13)</li><li>Hydrogen Sulfide Odor (C1)</li></ul>	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
Vetland Hydrology Indicators:  rimary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roc	<ul> <li>Surface Soil Cracks (B6)</li> <li>Sparsely Vegetated Concave Surface (B8)</li> <li>Drainage Patterns (B10)</li> <li>Dry-Season Water Table (C2)</li> </ul>
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roc     Presence of Reduced Iron (C4)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roc     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roc     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Solls     Thin Muck Surface (C7)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Rod Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7) ield Observations:	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roc     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils     Thin Muck Surface (C7)     Fiddler Crab Burrows (C10)     Other (Explain in Remarks)	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Vater Table Present? Yes N  Saturation Present? Yes N	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roc     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils     Thin Muck Surface (C7)     Fiddler Crab Burrows (C10)     Other (Explain in Remarks)  O Depth (inches):     Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Sield Observations:  Surface Water Present? Yes N  Vater Table Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N	Water-Stained Leaves (B9)     Aquatic Fauna (B13)     Hydrogen Sulfide Odor (C1)     Oxidized Rhizospheres on Living Roc     Presence of Reduced Iron (C4)     Recent Iron Reduction in Tilled Soils     Thin Muck Surface (C7)     Fiddler Crab Burrows (C10)     Other (Explain in Remarks)  O Depth (inches):     Depth (inches):	Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10)  ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
High Water Table (A2) Saturation (A3) Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3) Algal Mat or Crust (B4) Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Water Table Present? Yes N Saturation Present? Yes N Signal Section (A2)	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N  Includes capillary fringe)  Describe Recorded Data (stream gauge, mon	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N  Sincludes capillary fringe)  Describe Recorded Data (stream gauge, mon	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Vetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Vater Table Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N  Surface Water Present? Yes N	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one required:  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N  Saturation Present? Yes N  Concludes capillary fringe)  Describe Recorded Data (stream gauge, money	Water-Stained Leaves (B9) Aquatic Fauna (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres on Living Roc Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils Thin Muck Surface (C7) Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches):	Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) ots (C3) Dry-Season Water Table (C2) Saturation Visible on Aerial Imagery (C9) (C6) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5)

/ WETLAND DETERM	INATION D	ATA FORM - Ca	ıribbean Islands Regi	on
Project/Site: / Glaceg Solar Park	Munic	cipality/Town:	))(OC s	Sampling Date: May 30, 2014
Applicant/Owner: YFN Yabucaa Sola			PR or USVI: P. R. s	1 / 17
Investigator(s): A. Cubinci			state: Carnir	The state of the s
	<u>Dlain</u> L		convex, none): Flat Datum: NAD83	Slope (%):
Soil Map Unit Name: CC-CO OSO S		av		ion: URAND
Are climatic / hydrologic conditions on the site typical for the		/ /		
Are Vegetation, Soil, or Hydrology	1970			esent? Yes No
Are Vegetation, Soil, or Hydrology	TV 475		eeded, explain any answers	
SUMMARY OF FINDINGS - Attach site map	showing s	sampling point	ocations, transects, i	important features, etc.
Hydric Soil Present? Yes ✓	No No No	Is the Sampled within a Wetla		_ No
VEGETATION – Use scientific names of pla		Dominant Indicator	Dominance Test worksh	poet:
Tree Stratum (Plot size:) 1	% Cover	Species? Status	Number of Dominant Spe That Are OBL, FACW, or	ecies
2			Total Number of Dominar Species Across All Strata	
4 5			Percent of Dominant Spec That Are OBL, FACW, or	
Sapling/Shrub Stratum (Plot size:)			Prevalence Index works	
1			Total % Cover of:	
2			OBL species	
3			FACW species	The state of the s
4			FAC species	
5			FACU species	
Herb Stratum (Plot size:)	-7	= Total Cover	UPL species	X 5 (B)
1. Eria hlor polystachya 2. Pasalum Visactum	$-\frac{+c}{20}$	+ACW		
3. Commelier diffuss	5	FAC	Hydrophytic Vegetation	Indicators:
4. Liebilica CHaralis	5	OBE	1 - Rapid Test for Hy	drophytic Vegetation
5.			2 - Dominance Test is	s >50%
6.			3 - Prevalence Index	is ≤3.0 <sup>1</sup>
7.			Problematic Hydroph	ytic Vegetation <sup>1</sup> (Explain)
8				
Woody Vine Stratum (Plot size:) 1)		= Total Cover	Indicators of hydric soil a be present, unless disturb	and wetland hydrology must bed or problematic.
2				
3.			Hydrophytic	
4.			Vegetation	V
		Total Cover	Present? Yes	No
Remarks:			1	

-	-	

Depth Matrix (inches) Color (moist) %	Redox Features  Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks
0-11 10,23/2 80	10425/8 20 RM	SILTYCUAU
11-18 10423/1 75	10425/1 25 D	
<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> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
Black Histic (A3) Hydrogen Sulfide (A4)	Stripped Matrix (S6) Dark Surface (S7)	Very Shallow Dark Surface (TF12)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	Other (Explain in Remarks)
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	
Muck Presence (A8)	Redox Dark Surface (F6)	3Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	wetland hydrology must be present,
Thick Dark Surface (A12)	Redox Depressions (F8)	unless disturbed or problematic.
Restrictive Layer (if observed):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No
Remarks:		
HYDROLOGY		
Wetland Hydrology Indicators:		
Primary Indicators (minimum of one required	; check all that apply)	Secondary Indicators (minimum of two required)
Surface Water (A1)	Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
High Water Table (A2)	Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
Saturation (A3)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Water Marks (B1)	Oxidized Rhizospheres on Living Root	s (C3) Dry-Season Water Table (C2)
Sediment Deposits (B2)	Presence of Reduced Iron (C4)	Saturation Visible on Aerial Imagery (C9)
Drift Deposits (B3)	Recent Iron Reduction in Tilled Soils (	C6) Geomorphic Position (D2)
Algal Mat or Crust (B4)	Thin Muck Surface (C7)	
	THIT WILCK SUITAGE (C7)	Shallow Aquitard (D3)
Iron Deposits (B5)	Fiddler Crab Burrows (C10)	Shallow Aquitard (D3) FAC-Neutral Test (D5)
	Fiddler Crab Burrows (C10)	
Iron Deposits (B5)	Fiddler Crab Burrows (C10) Other (Explain in Remarks)	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7	Fiddler Crab Burrows (C10)  Other (Explain in Remarks)	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7  Field Observations:  Surface Water Present? Yes N	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  lo Depth (inches): Depth (inches):	FAC-Neutral Test (D5)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7  Field Observations:  Surface Water Present? Yes N  Water Table Present? Yes N  Saturation Present? Yes N	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  lo Depth (inches): Depth (inches):	
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7 Field Observations:  Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Depth (inches):	FAC-Neutral Test (D5)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7 Field Observations:  Surface Water Present? Yes N Water Table Present? Yes N Saturation Present? Yes N (includes capillary fringe)	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  lo Depth (inches): Depth (inches):	FAC-Neutral Test (D5)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7 Field Observations:  Surface Water Present? Yes No Section Present?	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Depth (inches):	FAC-Neutral Test (D5)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No start Table Present? Yes Yes Ye	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Depth (inches):	FAC-Neutral Test (D5)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No start Table Present? Yes Yes Ye	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Depth (inches):	FAC-Neutral Test (D5)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No start Table Present? Yes Yes Ye	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Depth (inches):	FAC-Neutral Test (D5)
Iron Deposits (B5) Inundation Visible on Aerial Imagery (B7) Field Observations: Surface Water Present? Yes No start Table Present? Yes Yes Ye	Fiddler Crab Burrows (C10) Other (Explain in Remarks)  Depth (inches): Depth (inches): Depth (inches): Depth (inches):	FAC-Neutral Test (D5)

/ . VEILAND DEIERIVI	INA HON L	ATA FORWI - OC	iribbean islands Region
Applicant/Owner: YFN Yabucaa Sol			PR or USVI: PR Sampling Point: YSP-33
Investigator(s): A (a) DITG		Contract to	state: CAMINONUEVO
	5°5012 +y Cla	33.39°W	convex, none): + 14+ Slope (%):
Are climatic / hydrologic conditions on the site typical for t	his time of year	ar? Yes_ & No_	(If no, explain in Remarks.)
Are Vegetation, Soil, or Hydrology			"Normal Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	_naturally pro	blematic? (If n	eeded, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site ma	showing	sampling point	ocations, transects, important features, etc.
Hydric Soil Present? Yes	No No No	Is the Sampled within a Wetla	i
VEGETATION – Use scientific names of pla		Dominant Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:) 1		Species? Status	Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
2			Total Number of Dominant Species Across All Strata: (B)
5.		= Total Cover	Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet:
Sapling/Shrub Stratum (Plot size:)			Total % Cover of: Multiply by:
2.			OBL species x 1 =
3			FACW species x 2 =
4.			FAC species x 3 =
5			FACU species x 4 =
0		= Total Cover	UPL species x 5 =
Herb Stratum (Plot size:)  1	30	Y FAC	Column Totals:(A)(B)
2. Passalum VIIStim	30	4. FACIL	Prevalence Index = B/A =
3. Erichles Delystechye.		TACIL	16-17-17-17-17-17-17-17-17-17-17-17-17-17-
4. Commeling difficult	10	N FAC	1 - Rapid Test for Hydrophytic Vegetation
5.	_ + -		2 - Dominance Test is >50%
			3 - Prevalence Index is ≤3.01
6			Problematic Hydrophytic Vegetation¹ (Explain)
7 8			
8	0	= Total Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1			
2			Hudronbutio
3			Hydrophytic Vegetation
4			Present? Yes No
		= Total Cover	

Sampling Point: V933

Profile Description: (Describe to the deposite Depth Matrix	Redox Features	
(inches) Color (moist) %		Loc <sup>2</sup> Texture , Remarks
0-13 104123/3 90	10412416 10 RM	Siltycky
3-23 10423/3 80	10412+16 20 12M	Clerk J
		Section 19 Community Commu
Type: C=Concentration, D=Depletion, RM=	Reduced Matrix, MS=Masked Sand Grains	s. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
lydric Soil Indicators:		Indicators for Problematic Hydric Soils <sup>3</sup> :
Histosol (A1)	Sandy Gleyed Matrix (S4)	Stratified Layers (A5)
Histic Epipedon (A2)	Sandy Redox (S5)	Red Parent Material (F21)
_ Black Histic (A3)	Stripped Matrix (S6)	Very Shallow Dark Surface (TF12)
Hydrogen Sulfide (A4)	Dark Surface (S7)	Other (Explain in Remarks)
Organic Bodies (A6)	Loamy Gleyed Matrix (F2)	
5 cm Mucky Mineral (A7)	Depleted Matrix (F3)	3
Muck Presence (A8)	Redox Dark Surface (F6)	Indicators of hydrophytic vegetation and
Depleted Below Dark Surface (A11) Thick Dark Surface (A12)	Depleted Dark Surface (F7) Redox Depressions (F8)	wetland hydrology must be present, unless disturbed or problematic.
	Redox Depressions (Fo)	uniess disturbed of problematic.
estrictive Layer (if observed):		
Туре:		
Depth (inches):		Hydric Soil Present? Yes No
De	pletion below 13	
	pletim below 13	
/DROLOGY	pletim below 13	
YDROLOGY Vetland Hydrology Indicators:	1	Secondary Indicators (minimum of two required
/DROLOGY /etland Hydrology Indicators:	1	Secondary Indicators (minimum of two required Surface Soil Cracks (B6)
/DROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required	: check all that apply)	Surface Soil Cracks (B6)
/DROLOGY Vetland Hydrology Indicators: rimary Indicators (minimum of one required _ Surface Water (A1)	i: check all that apply) Water-Stained Leaves (B9)	Surface Soil Cracks (B6)
/DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one required Surface Water (A1) High Water Table (A2)	i: check all that apply)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
/DROLOGY /etland Hydrology Indicators: rimary Indicators (minimum of one required Surface Water (A1) High Water Table (A2) Saturation (A3)	I: check all that apply)  Water-Stained Leaves (B9)  Aquatic Fauna (B13)  Hydrogen Sulfide Odor (C1)	<ul><li>Surface Soil Cracks (B6)</li><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>
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# APPENDIX B

Soil Narrative from Soil Survey of Humacao Area of Eastern Puerto Rico



Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Humacao Area, Puerto Rico Eastern Part

Yabucoa Solar, LLC



## **Preface**

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://soils.usda.gov/sqi/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (http://offices.sc.egov.usda.gov/locator/app? agency=nrcs) or your NRCS State Soil Scientist (http://soils.usda.gov/contact/state offices/).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Soil Data Mart Web site or the NRCS Web Soil Survey. The Soil Data Mart is the data storage site for the official soil survey information.

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## **How Soil Surveys Are Made**

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the

individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

#### This product is generated from the USDA-NRCS certified data as of misunderstanding of the detail of mapping and accuracy of soil line imagery displayed on these maps. As a result, some minor shifting The soil surveys that comprise your AOI were mapped at 1:20,000. Please rely on the bar scale on each map sheet for accurate map placement. The maps do not show the small areas of contrasting The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background Enlargement of maps beyond the scale of mapping can cause Soil Survey Area: Humacao Area, Puerto Rico Eastern Part Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: UTM Zone 20N NAD83 Natural Resources Conservation Service soils that could have been shown at a more detailed scale. Map Scale: 1:9,900 if printed on A size (8.5" × 11") sheet. Date(s) aerial images were photographed: 2004 MAP INFORMATION Warning: Soil Map may not be valid at this scale. Version 5, Oct 15, 2012 of map unit boundaries may be evident. the version date(s) listed below. Web Soil Survey URL: Survey Area Data: Source of Map: measurements. Streams and Canals Interstate Highways Short Steep Slope Very Stony Spot Special Line Features Major Roads Local Roads US Routes Wet Spot Other Gully Other Political Features Cities Water Features Transportation MAP LEGEND : { ‡ 1 > Severely Eroded Spot Area of Interest (AOI) Miscellaneous Water Closed Depression Marsh or swamp Perennial Water Mine or Quarry Soil Map Units Rock Outcrop Special Point Features **Gravelly Spot** Sandy Spot Saline Spot Slide or Slip Borrow Pit **Gravel Pit** Lava Flow Sodic Spot Stony Spot Spoil Area Area of Interest (AOI) Clay Spot Sinkhole Blowout Landfill $\boxtimes$ Soils

### Map Unit Legend

Humacao Area, Puerto Rico Eastern Part (PR689)					
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI		
Ad	Aguadilla loamy sand	0.3	0.1%		
Cf	Catano loamy sand	11.7	4.6%		
Cr	Coloso silty clay	58.5	23.1%		
Me	Maunabo clay	38.5	15.2%		
NOTCOM	No Digital Data Available	0.2	0.1%		
PdF	Pandura-Very stony land complex, 40 to 60 percent slopes	1.7	0.7%		
PeC2	Parcelas clay, 5 to 12 percent slopes, eroded	21.1	8.3%		
Та	Talante soils	63.8	25.2%		
TeE	Teja gravelly sandy loam, 12 to 40 percent slopes	0.6	0.2%		
Vw	Vivi loam	56.7	22.4%		
Wa	Wet alluvial land	0.0	0.0%		
Totals for Area of Interes	t	253.3	100.0%		

## Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified

by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

#### Humacao Area, Puerto Rico Eastern Part

#### Ad—Aguadilla loamy sand

#### Map Unit Setting

Landscape: Coastal plains, river valleys

Elevation: 0 to 200 feet

Mean annual precipitation: 43 to 85 inches Mean annual air temperature: 65 to 89 degrees F

Frost-free period: 365 days

#### Map Unit Composition

Aguadilla and similar soils: 98 percent Minor components: 2 percent

#### **Description of Aguadilla**

#### Setting

Landform: Coastal plains

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear Parent material: Sandy sediments

#### Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95

to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Very low (about 2.0 inches)

#### Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 6s

Hydrologic Soil Group: A

#### Typical profile

0 to 8 inches: Loamy sand 8 to 58 inches: Sand

#### **Minor Components**

#### Bajura

Percent of map unit: 2 percent Landform: Depressions

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Dip Down-slope shape: Concave, linear

Across-slope shape: Concave, linear Across-slope shape: Linear, concave

#### Cf—Catano loamy sand

#### Map Unit Setting

Landscape: Coastal plains, river valleys

Elevation: 0 to 60 feet

Mean annual precipitation: 20 to 70 inches Mean annual air temperature: 67 to 89 degrees F

Frost-free period: 365 days

#### Map Unit Composition

Catano and similar soils: 95 percent Minor components: 5 percent

#### **Description of Catano**

#### Setting

Landform: Coastal plains

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Beach sand deposits

#### Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95

to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 50 percent Available water capacity: Low (about 4.5 inches)

#### Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 6s

Hydrologic Soil Group: A

#### Typical profile

0 to 8 inches: Loamy sand 8 to 60 inches: Sand

#### **Minor Components**

#### Reparada

Percent of map unit: 5 percent Landform: Coastal plains

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

#### Cr-Coloso silty clay

#### Map Unit Setting

Landscape: River valleys Elevation: 0 to 1,600 feet

Mean annual precipitation: 43 to 73 inches Mean annual air temperature: 65 to 89 degrees F

Frost-free period: 365 days

#### Map Unit Composition

Coloso and similar soils: 95 percent Minor components: 5 percent

#### **Description of Coloso**

#### Setting

Landform: Flood plains

Landform position (two-dimensional): Footslope Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Stratified alluvial deposits

#### Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches Drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to

0.14 in/hr)

Depth to water table: About 24 to 48 inches

Frequency of flooding: Occasional Frequency of ponding: None

Available water capacity: Moderate (about 8.9 inches)

#### Interpretive groups

Farmland classification: Prime farmland if drained

Land capability (nonirrigated): 2w

Hydrologic Soil Group: D

#### Typical profile

0 to 7 inches: Silty clay 7 to 60 inches: Silty clay loam

#### **Minor Components**

#### Bajura

Percent of map unit: 5 percent

Landform: Flood plains

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Dip Down-slope shape: Concave, linear

Across-slope shape: Linear, concave

#### Me-Maunabo clay

#### Map Unit Setting

Landscape: River valleys Elevation: 0 to 50 feet

Mean annual precipitation: 43 to 90 inches Mean annual air temperature: 65 to 89 degrees F

Frost-free period: 365 days

#### Map Unit Composition

Maunabo and similar soils: 90 percent Minor components: 10 percent

#### **Description of Maunabo**

#### Setting

Landform: Flood plains

Landform position (two-dimensional): Footslope Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Fine textured sediments

#### Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to

moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 18 to 42 inches

Frequency of flooding: Frequent Frequency of ponding: None

Available water capacity: High (about 10.1 inches)

#### Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability (nonirrigated): 3w

Hydrologic Soil Group: D

#### Typical profile

0 to 10 inches: Clay 10 to 39 inches: Clay

39 to 48 inches: Sandy loam

#### **Minor Components**

#### Bajura

Percent of map unit: 10 percent

Landform: Flood plains

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Dip Down-slope shape: Concave, linear Across-slope shape: Linear, concave

#### NOTCOM—No Digital Data Available

#### Map Unit Composition

Notcom: 100 percent

#### **Description of Notcom**

Properties and qualities

#### PdF—Pandura-Very stony land complex, 40 to 60 percent slopes

#### Map Unit Setting

Landscape: Mountain ranges Elevation: 600 to 3,000 feet

Mean annual precipitation: 36 to 85 inches Mean annual air temperature: 45 to 81 degrees F

Frost-free period: 150 to 365 days

#### **Map Unit Composition**

Pandura and similar soils: 70 percent

Very stony land: 30 percent

#### **Description of Pandura**

#### Setting

Landform: Mountain slopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Mountainflank

Down-slope shape: Concave, convex Across-slope shape: Convex, linear Parent material: Weathered materials

#### Properties and qualities

Slope: 40 to 60 percent

Depth to restrictive feature: 12 to 20 inches to paralithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high

(0.06 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Very low (about 2.6 inches)

#### Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 7e Hydrologic Soil Group: D

#### Typical profile

0 to 3 inches: Loam

3 to 19 inches: Sandy loam

19 to 35 inches: Weathered bedrock

#### **Description of Very Stony Land**

#### Setting

Landform: Ridges

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Mountainflank

Down-slope shape: Concave, convex Across-slope shape: Convex, linear

#### Properties and qualities

Slope: 40 to 60 percent

Depth to restrictive feature: 40 inches to lithic bedrock

Drainage class: Excessively drained

Capacity of the most limiting layer to transmit water (Ksat): Very high (19.98 in/hr)

Available water capacity: Very low (about 2.0 inches)

#### Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 8s

Hydrologic Soil Group: A

#### Typical profile

0 to 60 inches: Fragmental material

#### PeC2—Parcelas clay, 5 to 12 percent slopes, eroded

#### Map Unit Setting

Landscape: Uplands Elevation: 200 to 600 feet

Mean annual precipitation: 80 to 90 inches Mean annual air temperature: 75 to 79 degrees F

Frost-free period: 365 days

#### Map Unit Composition

Parcelas and similar soils: 100 percent

#### **Description of Parcelas**

#### Setting

Landform: Alluvial fans

Landform position (two-dimensional): Toeslope, footslope Landform position (three-dimensional): Base slope, side slope

Down-slope shape: Linear, convex

Across-slope shape: Linear

Parent material: Fine textured sediments

#### Properties and qualities

Slope: 5 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to

0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: High (about 11.4 inches)

#### Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability (nonirrigated): 3e

Hydrologic Soil Group: D

#### Typical profile

0 to 7 inches: Clay 7 to 31 inches: Clay 31 to 60 inches: Clay

#### Ta—Talante soils

#### Map Unit Setting

Landscape: River valleys Elevation: 0 to 200 feet

Mean annual precipitation: 75 to 90 inches Mean annual air temperature: 75 to 81 degrees F

Frost-free period: 365 days

#### Map Unit Composition

Talante and similar soils: 90 percent Minor components: 10 percent

#### **Description of Talante**

#### Setting

Landform: Flood plains

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Talf

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Medium to coarse textured sediments

#### Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.57 to 1.98 in/hr)

Depth to water table: About 18 to 42 inches

Frequency of flooding: Occasional Frequency of ponding: None

Available water capacity: Low (about 3.1 inches)

#### Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability (nonirrigated): 3w

Hydrologic Soil Group: D

#### Typical profile

0 to 4 inches: Clay loam

4 to 10 inches: Sandy clay loam

10 to 18 inches: Loam

18 to 40 inches: Loamy sand 40 to 58 inches: Coarse sand

#### **Minor Components**

#### Fortuna

Percent of map unit: 10 percent

Landform: Flood plains

Landform position (two-dimensional): Footslope Landform position (three-dimensional): Tread

Down-slope shape: Concave Across-slope shape: Linear

#### TeE—Teja gravelly sandy loam, 12 to 40 percent slopes

#### Map Unit Setting

Landscape: Mountain ranges Elevation: 50 to 300 feet

Mean annual precipitation: 80 to 90 inches Mean annual air temperature: 77 to 81 degrees F

Frost-free period: 365 days

#### **Map Unit Composition**

Teja and similar soils: 100 percent

#### Description of Teja

#### Setting

Landform: Mountain slopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Mountainflank

Down-slope shape: Concave, linear, convex

Across-slope shape: Linear, convex Parent material: Gravelly residuum

#### Properties and qualities

Slope: 12 to 40 percent

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to very

high (0.06 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water capacity: Very low (about 0.6 inches)

#### Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 7s Hydrologic Soil Group: D

#### Typical profile

0 to 6 inches: Gravelly sandy loam 6 to 14 inches: Gravelly sandy loam 14 to 18 inches: Unweathered bedrock

#### Vw-Vivi Ioam

#### Map Unit Setting

Landscape: River valleys Elevation: 0 to 50 feet

Mean annual precipitation: 43 to 90 inches Mean annual air temperature: 65 to 89 degrees F

Frost-free period: 365 days

#### Map Unit Composition

Vivi and similar soils: 98 percent Minor components: 2 percent

#### **Description of Vivi**

#### Setting

Landform: Flood plains

Landform position (two-dimensional): Footslope Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Coarse to medium textured stratified sediments

#### Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: Occasional Frequency of ponding: None

Available water capacity: Moderate (about 8.9 inches)

#### Interpretive groups

Farmland classification: Prime farmland if irrigated

Land capability (nonirrigated): 2s

Hydrologic Soil Group: B

#### Typical profile

0 to 14 inches: Loam

14 to 20 inches: Very fine sandy loam

20 to 30 inches: Loam 30 to 36 inches: Sand 36 to 60 inches: Sandy loam

#### Minor Components

#### Bajura

Percent of map unit: 2 percent

Landform: Flood plains

Landform position (two-dimensional): Toeslope Landform position (three-dimensional): Dip Down-slope shape: Concave, linear Across-slope shape: Linear, concave

#### Wa-Wet alluvial land

#### Map Unit Setting

Elevation: 0 to 10 feet

Mean annual precipitation: 55 to 65 inches Mean annual air temperature: 77 to 79 degrees F

Frost-free period: 365 days

#### Map Unit Composition

Wet alluvial land and similar soils: 100 percent

#### **Description of Wet Alluvial Land**

#### Setting

Landform: Flood plains

#### Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Very poorly drained Depth to water table: About 0 inches Frequency of flooding: Frequent

Frequency of ponding: Frequent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 0.0 inches)

#### Interpretive groups

Farmland classification: Not prime farmland Land capability (nonirrigated): 8w Hydrologic Soil Group: D

#### Typical profile

0 to 60 inches: Variable

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