



Clean Water Act Section 404: Site Visit/Case Development

For inspections authorized pursuant to Clean Water Act sections 308 and 404 (33 U.S.C. §§ 1318 and 1344)

This report includes only factual information gained by documentation, onsite observations, and/or onsite interviews.

Inspector Name(s) Seika Robinson	Time In	12:00 PM	Start Date	January 24, 2023
	Time Out	2:20PM	End Date	January 24, 2023

Inspector's Organization

Organization Requesting Inspection (if different)

Inspection Type Inspection Status

Site Name

Site Address*

City* County* State* Zip Code*

Mailing Address*

City* County* State* Zip Code*

Latitude* Longitude*

Estimated Size of Site (acres) Is there a home on the site? Yes No

Inspector Signature **SEIKA ROBINSON** Digitally signed by SEIKA ROBINSON Date: 2023.04.28 12:25:26 -04'00' Date

Supervisor Signature **MARCO FINOCCHIARO** Digitally signed by MARCO FINOCCHIARO Date: 2023.04.28 13:18:03 -04'00' Date



Clean Water Act Section 404: Site Visit/Case Development

For inspections authorized pursuant to Clean Water Act sections 308 and 404 (33 U.S.C. §§ 1318 and 1344)

Site Name	MW Mayagüez, LLC (hereinafter as "MW Mayagüez")	Start Date	January 24, 2023
		End Date	January 24, 2023
Inspection Purpose	Initial site visit		
Opening Conference			
<input checked="" type="checkbox"/> Presentation of Inspector Credentials			
Name and Title (Use N/A if owner/operator not available to join the inspection)			
Inspector, Seika Robinson, presented credentials to Virgilio Casiano Santiago, operator on behalf of MW Mayagüez.			
<input type="checkbox"/> Opening Conference			
Name of person authorizing access if applicable			
Mr. Virgilio Casiano Santiago, on behalf of MW Mayagüez, authorized in person access to property to conduct the inspection the day of the visit.			
Notes from Opening Conference			
After arriving to the site on January 24, 2023, EPA met with Mr. Virgilio Casiano Santiago. EPA-WPS explained the purpose of the inspection, EPA and the Corps role with regulating wetlands under the CWA, and what areas would be inspected.			
<input type="checkbox"/> Access Issues if Any			
Describe			
N/A			
Inspection Observations and Sample Collection			
Site Owner/Site Operator/Responsible Party (Name, title and contact information)			
Site Owner: MW Mayagüez LLC, Salvador Yapur; [REDACTED] Site Operator: Tamrio Group Inc.; Hector Del Rio Diaz, [REDACTED]			
Additional Persons Present at Inspection			
Irvin Alicea Toro, Construction worker on behalf of MW Mayagüez; Hector Del Río Diaz, Tamrio Group Inc.; and Sofia Olivero-Lora, EPA Region 2			
General Site Characteristics (layout of property, etc.)			
The property is comprised of a 5.53- acre parcel located to the east of the Puerto Rico State Highway PR-2 at km. 148. The northern part of the property adjoins with Caño Boquilla, a tributary of Bahía de Mayagüez which is considered a navigable water under the CWA. At the time of the inspection, work was taking place at the majority of the western part of the parcel.			
Purpose and Need for Discharge of Dredged and/or Fill Material			
According to MW Mayagüez, the purpose of the fill material is to stabilize ground for construction of a warehouse.			
Site Overview (Past inspections, site description, permits, etc.)			
U.S. Army Corps of Engineers conducted an inspection of the Property on October 19, 1994. A cease and desist order was issued by the U.S. Army Corps of Engineers in 1994 to Interiores del Oeste, Inc. for potential filling of approximately four acres of herbaceous freshwater wetland for construction activities in the property. Site has current Construction NPDES General Permit (ID #PRR1000FC) effective on 10/06/2022.			



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Site Name	MW Mayagüez, LLC (hereinafter as "MW Mayagüez")	Start Date	January 24, 2023
		End Date	January 24, 2023
Scope of Inspection (Areas inspected or not inspected)			
EPA walked the site and conducted an inspection around the work boundaries. See Attachment A for details of the inspection findings.			



Clean Water Act Section 404: Site Visit/Case Development

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Site Name	MW Mayagüez, LLC (hereinafter as "MW Mayagüez")	Start Date	January 24, 2023
		End Date	January 24, 2023
Environmental Conditions (e.g., wind, rain, smoke, dust, temperature, snow)			
January 24, 2023: Temperatures were in the 80s-90s (degrees in F); partially cloudy; dry season.			
Field Work Conducted			
<p>During the inspection, EPA collected GPS data (see Attachment A), photographs (see Attachment B), and handwritten notes. Observations were recorded during the dry season and under normal conditions as per Antecedent Precipitation Tool analysis.</p> <p>EPA started the inspection at the northwestern corner of the Site. Adjoining the property EPA observed a perennial stream channel, Caño Boquilla, flowing west to a culvert beneath the State Highway PR-2. At the northern and northeastern parts of the property silt fences were haphazardly placed at the limit of the disturbance. Ponding, standing water and algal mats could be observed at both sides of the silt fences (in and out of construction work boundaries).</p> <p>EPA observed several flags on the property which said "wetland limit", MW Mayagüez informed EPA that a wetland delineation was done in the property prior to work commencement. Two soil pits were dug on the eastern part of the property. Soil Pit 1 was dug in impacted fill area on the "upland" area according to MW Mayagüez delineation and approximately 5 feet away from wetland delineation flag. Located within a highly disturbed area, Soil Pit 1 had up to 14 inches of fill material, inhibiting EPA's capacity to evaluate indicators for both hydric soils and hydrophytic vegetation. Nevertheless, high water table (at 7 inches) could be observed in Soil Pit 1 with water continuously seeping in from pit walls (see Attachment B for photolog of observations). At Soil Pit 2, vegetation was also cleared but multiple positive hydrology and hydric soil indicators were observed (see Attachment C for wetland data forms).</p>			
Closing Conference			
Documents Received and/or Requested During the Inspection			
Wetland delineation documents were requested but not provided at the time of the inspection.			
Compliance Assistance Provided (If any)			
N/A			
Observations Relayed to Site Owner/Operator			
N/A			
Actions Taken by Owner/Operator During the Inspection (If any)			
N/A			
Potential Issues of Concern Including Regulatory Citations			
Potential areas of jurisdictional wetlands may be present on the site that were potentially filled with several inches to over a foot of fill material. A forensic delineation would be required for a more accurate delineation of the Site.			
Attachments*			
<input checked="" type="checkbox"/> Maps and Sketches <input checked="" type="checkbox"/> Photographs (including location) and Photo Log <input checked="" type="checkbox"/> Other (SSIP, Wetlands Delineation Forms, etc.)			



Clean Water Act Section 404: Site Visit/Case Development

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Site Name	MW Mayagüez, LLC (hereinafter as "MW Mayagüez")	Start Date	January 24, 2023
		End Date	January 24, 2023
Attachment A: Map with GPS Points; Attachment B: Photolog; Attachment C: Wetland Data Forms			
Additional Notes			
None.			

Attachment A: Map with GPS Points

MW Mayagüez LLC (18.244700, -67.159850)
Tax parcel 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Legend

Parcel Boundary

Soil Pit Data Points (1/24/2023)

Work Boundary Data Points (1/24/2023)

Attachment B: Photolog

CWA 404 Inspection

Mini Warehouse Mayagüez

**Tax parcel number 207-015-554-33 in the Municipality
of Mayagüez, Puerto Rico**

January 24, 2023



Date: 1/24/3023

Time: 11:40 AM

Photographer: Seika Robinson

Photo ID: P1240328

Description: Construction permit sign at the entrance of the property.

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/24/2023

Time: 11:40 AM

Photographer: Seika Robinson

Photo ID: P1240328

Description: View of construction activities taking place at the property.

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/24/2023

Time: 12:09 PM

Photographer: Seika Robinson

Photo ID: P1240331

Description: View from west to east on the northern work boundary.

Red arrow showing location of Caño Boquilla.

Blue arrow showing work boundary.

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/24/2023

Time: 12:11 PM

Photographer: Seika Robinson

Photo ID: P1240333

Description: View of Caño Boquilla from the western property boundary. Picture depicts culvert at PR-2 N road.

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/24/2023

Time: 12:12 PM

Photographer: Seika Robinson

Photo ID: P1240337

Description: Construction lining and aggregate material at the northern boundary of the property. Ponding can be observed.

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/24/2023

Time: 12:14 PM

Photographer: Seika Robinson

Photo ID: P1240340

Description: Inundated areas at the northern border of the property. Ponding and algal mats can be observed.

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/24/2023

Time: 12:20 PM

Photographer: Seika Robinson

Photo ID: P1240346

Description: Silt fences and northeastern work boundary.

Iron rod with flagging of what appears to be a point marking a wetland delineation.



Date: 1/24/2023

Time: 12:20 PM

Photographer: Seika Robinson

Photo ID: P1240347

Description: Close up of iron rod with flagging of what appears to me a point (#12) marking a wetland delineation.



Date: 1/24/2023
Time: 12:22 PM
Photographer: Seika Robinson
Photo ID: P1240348

Description: Eastern work boundary.

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/24/2023

Time: 1:24 PM

Photographer: Seika Robinson

Photo ID: P1240354

Description: Fill material between silt fences at the eastern part of the property.

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/23/24

Time: 1:38 PM

Photographer: Seika Robinson

Photo ID: P1240358

Description: Soil Pit 1 water table and red arrow showing water continuously seeping into the pit.

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/24/2023

Time: 1:43 PM

Photographer: Seika Robinson

Photo ID: P1240360

Description: High water table can be observed at
Soil Pit 1

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/24/2023
Time: 1:54 PM
Photographer: Seika Robinson
Photo ID: P124364
Description: Soil Pit 2

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/24/2023
Time: 2:02 PM
Photographer: Seika Robinson
Photo ID: P1240366
Description: Soil sample at Sol Pit 2.

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico



Date: 1/24/2023

Time: 2:18 PM

Photographer: Seika Robinson

Photo ID: P1240370

Description: Saturation observed at the bottom of Soil Pit 2.

Tax parcel number 207-015-554-33 in the Municipality of Mayagüez, Puerto Rico

Attachment C: Wetland Data Forms

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Caribbean Islands Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	Requirement Control Symbol EXEMPT <i>(Authority: AR 335-15, paragraph 5-2a)</i>
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Project/Site: Tax parcel number 207-015-554-33-000 Municipality/Town: Mayagüez Sampling Date: 1/24/2023
 Applicant/Owner: MW Mayagüez, LLC PR or USVI: PR Sampling Point: 1
 Investigator(s): Seika Robinson Ward/Estate: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____
 Lat: 18.244749 Long: -67.159794 Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 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 _____ No <u>X</u> Hydric Soil Present? Yes _____ No <u>X</u> Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
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Remarks:
 The area has been significantly disturbed by earthmoving construction activities. A forensic delineation would be required for a more accurate determination.

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
<u>Herb Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
6. _____	_____	_____	_____	
7. _____	_____	_____	_____	
8. _____	_____	_____	_____	
_____ =Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ =Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: _____ (A)
 Total Number of Dominant Species Across All Strata: _____ (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: _____ (A/B)

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 = _____
 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 Vegetation¹ (Explain)
¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes _____ No X

Remarks:
 Vegetation was cleared and fill placed on top within weeks before site visit.

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-14	7.5YR 4/6	100						Rock mix with red soils

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Organic Bodies (A6) <input type="checkbox"/> 5 cm Mucky Mineral (A7) <input type="checkbox"/> Muck Presence (A8) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (F22) <input type="checkbox"/> Other (Explain in Remarks)
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Rocks _____ Depth (Inches): _____ 14 _____	Hydric Soil Present? Yes _____ No <u>X</u>
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Remarks:
 The soil pit could not be dug below 14-inches in depth. The dense concentration of rock material would not allow EPA to penetrate the soil any further with shovels only. More advance digging equipment would be required for a more accurate reading of the area.

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)			Secondary Indicators (minimum of two required)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input checked="" type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Fiddler Crab Burrows (C10)	<input type="checkbox"/> FAC-Neutral Test (D5)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)				

Field Observations: Surface Water Present? Yes _____ No _____ Depth (inches): _____ Water Table Present? Yes <u>X</u> No _____ Depth (inches): <u>7</u> Saturation Present? Yes _____ No _____ Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No _____
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
 Data was recorded with photography and measured with a ruler. GPS data points of the location of the soil pits were taken with a Tremble device.

Remarks:
 The pit was dug approximately 110-feet south of Caño Boquilla.

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Caribbean Islands Region See ERDC/EL TR-07-24; the proponent agency is CECW-CO-R	Requirement Control Symbol EXEMPT (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: MW Mayagüez - Mini Warehouses Municipality/Town: Mayagüez Sampling Date: 1/24/2023
 Applicant/Owner: _____ PR or USVI: PR Sampling Point: 2
 Investigator(s): Seika Robinson Ward/Estate: _____
 Landform (hillside, terrace, etc.): _____ Local relief (concave, convex, none): _____ Slope (%): _____
 Lat: 18.244241 Long: -67.159034 Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation X, Soil X, or Hydrology _____ significantly disturbed? Are "Normal Circumstances" present? Yes _____ No X
 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 <u>X</u> No _____ Hydric Soil Present? Yes <u>X</u> No _____ Wetland Hydrology Present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Remarks:	

VEGETATION – Use scientific names of plants.

<u>Tree Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
<u>Sapling/Shrub Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
3. _____	_____	_____	_____	
4. _____	_____	_____	_____	
5. _____	_____	_____	_____	
_____ =Total Cover				
<u>Herb Stratum</u> (Plot size: <u>5</u>)	Absolute % Cover	Dominant Species?	Indicator Status	
1. <u>Xanthosoma sagittifolium</u>	10	No	FACW	
2. <u>Mimosa peltita</u>	10	No	FAC	
3. <u>Vigna juruana</u>	5	No	UPL	
4. <u>Rhynchospora holoschoenoides</u>	15	Yes	OBL	
5. <u>Physalis angulata</u>	20	Yes	FAC	
6. <u>Commelina diffusa</u>	20	Yes	FAC	
7. <u>Mikania porosa</u>	1	No	FAC	
8. _____	_____	_____	_____	
81 =Total Cover				
<u>Woody Vine Stratum</u> (Plot size: _____)	Absolute % Cover	Dominant Species?	Indicator Status	
1. _____	_____	_____	_____	
2. _____	_____	_____	_____	
_____ =Total Cover				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percent of Dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)

Prevalence Index worksheet:

	Total % Cover of:	Multiply by:
OBL species	<u>15</u>	x 1 = <u>15</u>
FACW species	<u>10</u>	x 2 = <u>20</u>
FAC species	<u>51</u>	x 3 = <u>153</u>
FACU species	<u>0</u>	x 4 = <u>0</u>
UPL species	<u>5</u>	x 5 = <u>25</u>
Column Totals:	<u>81</u> (A)	<u>213</u> (B)
Prevalence Index = B/A = <u>2.63</u>		

Hydrophytic Vegetation Indicators:
 _____ 1 - Rapid Test for Hydrophytic Vegetation
X 2 - Dominance Test is >50%
X 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 Vegetation Present? Yes X No _____

Remarks:

SOIL

Sampling Point: 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-2	10YR 4/2	98	10YR 3/2	2	C	PL	Loamy/Clayey	Faint redox concentrations
2-6	5Y 3/1	80	10YR 4/2	20	C	PL/M	Loamy/Clayey	Distinct redox concentrations
6-14	10Y 4/1	100					Mucky Loam/Clay	

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

²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Organic Bodies (A6) <input checked="" type="checkbox"/> 5 cm Mucky Mineral (A7) <input type="checkbox"/> Muck Presence (A8) <input checked="" type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12)			<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Dark Surface (S7) <input checked="" type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input checked="" type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input checked="" type="checkbox"/> Redox Depressions (F8)			Indicators for Problematic Hydric Soils³: <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> Red Parent Material (F21) <input type="checkbox"/> Very Shallow Dark Surface (F22) <input type="checkbox"/> Other (Explain in Remarks)		
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³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

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

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (minimum of one is required; check all that apply)			Secondary Indicators (minimum of two required)		
<input type="checkbox"/> Surface Water (A1)	<input type="checkbox"/> Water-Stained Leaves (B9)	<input type="checkbox"/> Surface Soil Cracks (B6)			
<input type="checkbox"/> High Water Table (A2)	<input type="checkbox"/> Aquatic Fauna (B13)	<input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)			
<input type="checkbox"/> Saturation (A3)	<input type="checkbox"/> Hydrogen Sulfide Odor (C1)	<input type="checkbox"/> Drainage Patterns (B10)			
<input type="checkbox"/> Water Marks (B1)	<input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3)	<input checked="" type="checkbox"/> Dry-Season Water Table (C2)			
<input type="checkbox"/> Sediment Deposits (B2)	<input type="checkbox"/> Presence of Reduced Iron (C4)	<input type="checkbox"/> Saturation Visible on Aerial Imagery (C9)			
<input type="checkbox"/> Drift Deposits (B3)	<input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6)	<input checked="" type="checkbox"/> Geomorphic Position (D2)			
<input type="checkbox"/> Algal Mat or Crust (B4)	<input type="checkbox"/> Thin Muck Surface (C7)	<input type="checkbox"/> Shallow Aquitard (D3)			
<input type="checkbox"/> Iron Deposits (B5)	<input type="checkbox"/> Fiddler Crab Burrows (C10)	<input checked="" type="checkbox"/> FAC-Neutral Test (D5)			
<input type="checkbox"/> Inundation Visible on Aerial Imagery (B7)	<input type="checkbox"/> Other (Explain in Remarks)				

Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Depth (inches): <u>15</u> Saturation Present? Yes <input type="checkbox"/> No <input type="checkbox"/> Depth (inches): _____ (includes capillary fringe)	Wetland Hydrology Present? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:
 Data was recorded with photography and measured with a ruler. GPS data points of the location of the soil pits were taken with a Tremble device.

Remarks:
 The pit was dug approximately 260-feet south of Caño Boquilla.