		Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size:) 1	% Cover	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC:  0	(A)
2.					` ,
3	_			Total Number of Dominant Species Across All Strata:  2	(B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 0	(A/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8				OBL species 0 x 1 = 0	_
		= Total Co	ver	FACW species $\frac{5}{5}$ $\times 2 = \frac{10}{10}$	_
50% of total cover:	20% of	total cover	:	FAC species $0$ $x = 0$	-
Sapling/Shrub Stratum (Plot size:)				7.5	-
1					_
2				01 L Species x 0	
3				Column Totals: 100 (A) 410	(B)
4				Prevalence Index = B/A = 4.1	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8.					
		= Total Cov			\
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Expla	III)
Herb Stratum (Plot size: 30'x30' )	2070 01	10101 00101		1	
1. Schizachyrium scoparium	60	Υ	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology r be present, unless disturbed or problematic.	nust
2. Heterotheca subaxillaris	20	Y	UPL	Definitions of Four Vegetation Strata:	
3. Uniola paniculata	15	N	FACU	Definitions of Four Vegetation Strata.	
4. Paspalum monostachyum	5	N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6	
			171011	more in diameter at breast height (DBH), regardle height.	ess of
5					
6				Sapling/Shrub – Woody plants, excluding vines than 3 in. DBH and greater than 3.28 ft (1 m) tall	
7				than 3 m. DBH and greater than 3.26 it (1 m) tall	•
8				Herb - All herbaceous (non-woody) plants, rega	rdless
9				of size, and woody plants less than 3.28 ft tall.	
10				Woody vine - All woody vines greater than 3.28	∃ft in
11				height.	
12					
	100				
50% of total cover: <u>50</u>	20% of	total cover	: <u>20                                    </u>		
Woody Vine Stratum (Plot size:)					
1					
2					
3					
4					
5				Hydrophytic	
		= Total Cov	ver .	Vegetation	
50% of total cover:	20% of	total cover	:	Present? Yes No X	
Remarks: (If observed, list morphological adaptations bel	ow).			1	
Dominant hydrophytic vegetation was r	•	ant			
Dominant hydrophytic vegetation was i	ioi prese	511L.			

Sampling Point: UD26BPH\_SJI

SOIL Sampling Point: UD26BPH\_SJI

	Matrix		Red	ox Feature	S		n the absence o			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remarks	
0-18	10YR 7/2	100					Sand			
	-	<del>-</del>			-					
				_						
	-									
	-									
<u> </u>		- Infirm DM D	Andrea al Martela N				21	D. Daniel Co	NA NA-1-	
	oncentration, D=Deplicators: (Application)					ains.	Indicators f		ning, M=Matr	
_		Jabie io ali Li				DD C T I			-	Julis .
Histosol	pipedon (A2)		Polyvalue B Thin Dark S				· <del>-</del>	uck (A9) <b>(LF</b> uck (A10) <b>(L</b>		
<b>=</b>	istic (A3)		Loamy Mucl							MLRA 150A,E
=	en Sulfide (A4)		Loamy Gley	•	. , .	• • •		•	, .	(LRR P, S, T
	d Layers (A5)		Depleted Ma		,				oamy Soils (	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	6)			A 153B)	·	
	ucky Mineral (A7) <b>(L</b>		Depleted Da		` ,			rent Materia		
	resence (A8) <b>(LRR l</b>		Redox Depr	•	8)				Surface (TF	12)
_	uck (A9) <b>(LRR P, T)</b>		☐ Marl (F10) <b>(</b>	•			U Other (E	Explain in R	emarks)	
= '	d Below Dark Surfac	ce (A11)	Depleted Oc		•	•	<b>-</b> \ 3			
=	ark Surface (A12)	MI DA 150A\	Iron-Mangai					-	ophytic vege gy must be p	
	rairie Redox (A16) <b>(</b> Jucky Mineral (S1) <b>(</b>		Umbric Surf			, 0)		-	gy must be p I or problema	
_	Gleyed Matrix (S4)	LKK 0, 3)	Reduced Ve			0A. 150B)		ss distuibed	i di pidbieilia	auc.
_	Redox (S5)		Piedmont FI							
_	d Matrix (S6)						RA 149A, 153C,	153D)		
_	ırface (S7) <b>(LRR P,</b> 3	S, T, U)	<u>—</u>	J	·	, ,		,		
Restrictive	Layer (if observed)	):								
Type:										
	ches):						Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:			<u> </u>				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:	ches):	s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	<u>No_X</u>
Type: Depth (in temarks:		s not pres	  ent.				Hydric Soil F	resent?	Yes	No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	resent?	Yes	_ No <u>X</u>
Type: Depth (in emarks:		s not pres	 ent.				Hydric Soil F	Present?	Yes	_ No <u>X</u>
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	. No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in Remarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in temarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X
Type: Depth (in emarks:		s not pres	ent.				Hydric Soil F	Present?	Yes	No X

Project/Site: San Jose Island  Applicant/Owner: Port of Corpus Chrise Investigator(s): BPH  Landform (hillslope, terrace, etc.): Barrier is Subregion (LRR or MLRA): LRR T / MLR Soil Map Unit Name: Beaches  Are climatic / hydrologic conditions on the site of the Vegetation N, Soil N, or Hydrologic Are Vegetation N, or Hydrologic Are Vegetati	Section Section Seland - hillslope Local r A 150B Lat: 27.864854  typical for this time of year? Years  Section Local r Local r Section Local r Local r Section Local r Local r Section Local	n, Township, Range: N/A  relief (concave, convex, none): Convex  Long: -97.038137  NWI classific  as X No (If no, explain in Fixed? Are "Normal Circumstances" process.	Sampling Point: UD27BPH_SJI  Slope (%): 10-12 Datum: NAD83 Pation: None  Demarks.) Dresent? Yes X No
SUMMARY OF FINDINGS - Attach	site map showing sam	pling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes Remarks: The sampled area was determ hydrophytic vegetation, hydric	$\frac{S}{S} = \frac{N_0 \frac{X}{X}}{N_0 \frac{X}{X}}$ ined to not be within	a wetland due to the absen	<sub>No</sub> X ce of dominant
HYDROLOGY			
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required and support of the	Aquatic Fauna (B13)  Marl Deposits (B15) (LRR Hydrogen Sulfide Odor (C Oxidized Rhizospheres ale Presence of Reduced Iron Recent Iron Reduction in Thin Muck Surface (C7) Other (Explain in Remarks	Surface Soil Sparsely Ver Sparsely Ver Drainage Pa Moss Trim L Dry-Season (C4) Crayfish Bur Tilled Soils (C6) Geomorphic Shallow Aqu	getated Concave Surface (B8) tterns (B10) ines (B16) Water Table (C2) rows (C8) isible on Aerial Imagery (C9) Position (D2) itard (D3)
Surface Water Present? Yes N Water Table Present? Yes N	o X Depth (inches): o X Depth (inches): Depth (inches): nitoring well, aerial photos, prev	Wetland Hydrology Preser	nt? Yes No_X
Remarks: Wetland hydrology was not pre	esent.		

# VEGETATION (Four Strata) – Use scientific names of plants. Sampling Point: UD27BPH\_SJI

			Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:) 1	% Cover	Species?	<u>Status</u>	Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A	<b>、</b> )
2				Total Number of Dominant	•
3				Species Across All Strata: 1 (E	i)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: $0$ (A	/B)
6				Prevalence Index worksheet:	
7				Total % Cover of: Multiply by:	
8				OBL species 0 x 1 = 0	
EON/ of total covers		= Total Cov		FACW species $0   x 2 = 0$	
50% of total cover:	20% 01	total cover	·	FAC species $0 \times 3 = 0$	
Sapling/Shrub Stratum (Plot size:)				FACU species 90 x 4 = 360	
1				UPL species 10 x 5 = 50	
2				Column Totals: 100 (A) 410	(B)
3				4.4	
4				Prevalence Index = B/A = 4.1	
5				Hydrophytic Vegetation Indicators:	
6				1 - Rapid Test for Hydrophytic Vegetation	
7				2 - Dominance Test is >50%	
8		= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	
Herb Stratum (Plot size: 30'x30' )	20 % 01	total cover	·		
1. Schizachyrium scoparium	80	Υ	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology mus be present, unless disturbed or problematic.	t
2. Heterotheca subaxillaris	10	N	UPL	Definitions of Four Vegetation Strata:	
3. Chamaecrista fasciculata	5	N	FACU	Definitions of Four Vegetation Strata.	
4. Uniola paniculata	5	N	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm	
···				more in diameter at breast height (DBH), regardless height.	OI
5					
6				Sapling/Shrub – Woody plants, excluding vines, let than 3 in. DBH and greater than 3.28 ft (1 m) tall.	3S
7					
8				Herb – All herbaceous (non-woody) plants, regardle of size, and woody plants less than 3.28 ft tall.	SS
10.			-		
11.			-	<b>Woody vine</b> – All woody vines greater than 3.28 ft i	n
12			-	height.	
12.	100	= Total Cov			
50% of total cover: 50					
Woody Vine Stratum (Plot size: )	2070 01	total cover	•		
1					
2.					
3					
4					
5				Hadron bod's	
<u> </u>				Hydrophytic Vegetation	
50% of total cover:				Present? Yes No X	
Remarks: (If observed, list morphological adaptations belo		total cover	•		
Demonstrate (If also arrived that are made at 11 to 11	ow).				
50% of total cover:	20% of				<u> </u>

SOIL Sampling Point: UD27BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of	indicators.)	
Depth	Matrix			ox Feature:					
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-18	10YR 7/1	100					Sand		
				_					_
							<u> </u>		
1Type: C=C	oncentration, D=De	oletion RM-R	educed Matrix M	S-Macked	Sand Gr		<sup>2</sup> Location: PL	.=Pore Lining, M=Ma	triv
	Indicators: (Appli					airio.		Problematic Hydric	
Histosol		, abio to all 2	Polyvalue B			RRSTI		k (A9) <b>(LRR O)</b>	
_	oipedon (A2)		Thin Dark S				· —	k (A3) <b>(LRR S)</b>	
Black Hi			Loamy Mucl					Vertic (F18) <b>(outside</b>	MLRA 150A.B)
I <b>=</b>	en Sulfide (A4)		Loamy Gley	-		. •,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma	,	. –,			is Bright Loamy Soils	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		6)		(MLRA		,
	icky Mineral (A7) <b>(L</b>		Depleted Da	ark Surface	(F7)		Red Pare	nt Material (TF2)	
Muck Pr	esence (A8) (LRR I	J)	Redox Depr	essions (F	8)		<u> </u>	low Dark Surface (TF	<sup>-</sup> 12)
<u>Π</u> 1 cm Μι	ıck (A9) <b>(LRR P, T)</b>		Marl (F10) (	LRR U)			U Other (Ex	plain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Od		•		•		
	ark Surface (A12)		☐ Iron-Mangar					rs of hydrophytic veg	
	rairie Redox (A16) (		Umbric Surf			, U)		d hydrology must be	•
	Mucky Mineral (S1) (	LRR O, S)	Delta Ochrid			04 450D\		disturbed or problem	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont FI				ғ9А) RA 149A, 153С, 15	:2D)	
_	rface (S7) <b>(LRR P,</b> :	S T III	Anomalous	Brigiii Luai	ily Solis (	rzu) (IVILK	KA 149A, 155C, 15	30)	
	Layer (if observed)								
Type:		•							
ı <u> </u>	ches):						Hydric Soil Pr	esent? Yes	No X
	Ciles)						Tiyane 30ii i i		_ 140
Remarks:	ydric soil was	not pres	ent.						
	,								

Project/Site: San Jose Island City/C	ounty: Aransas County	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX	Sampling Point: UD28BPH_SJI
r r r r A II M BPH	N/A	
Landform (hillslope terrace etc.): Barrier island - gulf beach	relief (concave_convex_none). None	Slope (%)· 2-3
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.85963	4 Long: -97.037488	Datum: NAD83
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Soil Map Unit Name: Not mapped	NWI classifica	ation: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es X No (If no explain in Re	emarks )
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly disturb		
Are Vegetation N, Soil N, or Hydrology N naturally problems	atic? (If needed, explain any answer	
SUMMARY OF FINDINGS – Attach site map showing sam		,
Livedona busine Manageria in Discount 2		
Hydrophytic Vegetation Present? Yes No No Hydric Soil Present? Yes No X	Is the Sampled Area	V
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         X         No	within a Wetland? Yes	No X
Remarks:		
Although wetland hydrology was present, the samp	oled area was determined to	not be within a
wetland due to the absence of dominant hydrophyt	ic vegetation and hydric soil.	
HYDROLOGY		
Wetland Hydrology Indicators:		tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil 0	` '
☐ Surface Water (A1) ☐ Aquatic Fauna (B13) ☐ High Water Table (A2) ☐ Marl Deposits (B15) (LRF	<del></del>	etated Concave Surface (B8)
Saturation (A3)  Hydrogen Sulfide Odor (C	_	
Water Marks (B1) Oxidized Rhizospheres a		Water Table (C2)
Sediment Deposits (B2)  Presence of Reduced Iron		ows (C8)
Drift Deposits (B3)	Tilled Soils (C6) Saturation Vis	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic F	` '
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	· —	
☐ Inundation Visible on Aerial Imagery (B7) ☐ Water-Stained Leaves (B9)	FAC-Neutral	oss (D8) (LRR T, U)
Field Observations:	Spriagridiii iii	055 (D0) (LRK 1, <b>0)</b>
Surface Water Present? Yes No X Depth (inches):		
Water Table Present? Yes X No Depth (inches): at s	surface	
Saturation Present? Yes X No Depth (inches): at s	Surface Wetland Hydrology Present	t? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections) if available:	
besombe recorded bata (stream gauge, monitoring well, acrial priotos, pre	vious inspections), il available.	
Remarks:		
Wetland hydrology was present.		
Treatana nyarenegy mae presenta		

<b>EGETATION (Four Strata)</b> – Use scientific na	arries or pra	มาเธ.		Sampling Point: UD28BPH_
Trace Observations (Distriction	Absolute			Dominance Test worksheet:
Free Stratum   (Plot size:)	<u>% Cover</u>			Number of Dominant Species That Are OBL, FACW, or FAC:(A)
).				
3.				Total Number of Dominant Species Across All Strata: (B)
i				Percent of Dominant Species That Are OBL, FACW, or FAC: (A/E
5.				That Are OBL, FACW, OF FAC (A/E
				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
·				OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	2070 011	iotal cover.		FAC species x 3 =
				FACU species x 4 =
•				UPL species x 5 =
2				Column Totals: (A) (B
l				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
ò				1 - Rapid Test for Hydrophytic Vegetation
·				2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	=			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of t	total cover:		
Herb Stratum (Plot size:)				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1				be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
1				more in diameter at breast height (DBH), regardless of
5				height.
5				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
l1				height.
12.				
	=	Total Cov	er	
50% of total cover:	20% of	total cover:		
Noody Vine Stratum (Plot size:)				
·				
). 				
3.				
1				
5				
·				Hydrophytic Vegetation
50% of total cover:				Present? Yes No X
50% of total cover: Remarks: (If observed, list morphological adaptations bel No vegetation was present.				Vegetation Present?  Yes No X

SOIL Sampling Point: UD28BPH\_SJI

(inches)	Matrix			ox Feature			n the absence o			
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remarks	
0-20	10YR 6/2	100					Loamy sand			
	-	<del></del>					-			
			advaged Matrix M		Cand Cr		<sup>2</sup> l coetion: F	OL =Doro Li	ining, M=Mat	wis.
	oncentration, D=Deplicators: (Applic					airis.	Indicators for			
Histosol		able to all El	Polyvalue B			DD C T I		uck (A9) <b>(L</b>	-	oons .
	oipedon (A2)		Thin Dark S					ick (A9) <b>(L</b> ick (A10) <b>(</b>	•	
Black His			Loamy Mucl							MLRA 150A,E
	n Sulfide (A4)		Loamy Gley	-	. , .	-,		•		) (LRR P, S, T
	d Layers (A5)		Depleted Ma		,				Loamy Soils	
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	<sup>-</sup> 6)		(MLR/	A 153B)		
	ıcky Mineral (A7) <b>(L</b>		Depleted Da		` '			ent Materi		
	esence (A8) (LRR l	J)	Redox Depr	•	8)		—		Surface (TF	12)
	ick (A9) (LRR P, T)		☐ Marl (F10) (I	-			<u>Ľ</u> Other (E	Explain in F	Remarks)	
=	d Below Dark Surfac	ce (A11)	Depleted Od		•	•	<b>T</b> \ 31:			-4-4:
	ark Surface (A12)	MI DA 150A\	Iron-Mangar					-	Irophytic vege ogy must be p	
	rairie Redox (A16) <b>(</b> lucky Mineral (S1) <b>(</b>		Umbric Surf			, 0)		-	d or problem	
_	Gleyed Matrix (S4)	LKK <b>(</b> , 3)	Reduced Ve			0A. 150B)		ss distuibe	d of problem	auc.
_	Redox (S5)		Piedmont FI							
=	Matrix (S6)						A 149A, 153C,	153D)		
_	rface (S7) <b>(LRR P,</b>	S, T, U)		J	·	, ,		,		
Restrictive I	Layer (if observed)	:								
Type:			<u> </u>							
, r - ·							Hydric Soil P	resent?	Yes	_ No X
Depth (inc	ches):									
Depth (inc	<u> </u>		<del></del>				1			
Depth (inc	ydric soil was	not pres	ent.				-			
Depth (inc	<u> </u>	not pres	ent.							
Depth (inc	<u> </u>	not pres	ent.				1			
Depth (inc	<u> </u>	not pres	ent.				1			
Depth (inc	<u> </u>	not pres	ent.				ı			
Depth (inc	<u> </u>	not pres	ent.				ı			
Depth (inc	<u> </u>	not pres	ent.							
Depth (inc	<u> </u>	not pres	ent.							
Depth (ind	<u> </u>	not pres	ent.							
Depth (inc	<u> </u>	not pres	ent.							
Depth (inc	<u> </u>	not pres	ent.							
Depth (ind	<u> </u>	not pres	ent.							
Depth (ind	<u> </u>	not pres	ent.							
Depth (inc	<u> </u>	not pres	ent.							
Depth (inc	<u> </u>	not pres	ent.							
Depth (inc	<u> </u>	not pres	ent.							
Depth (inc	<u> </u>	not pres	ent.							
Depth (inc	<u> </u>	s not pres	ent.							
Depth (inc	<u> </u>	s not pres	ent.							
Depth (inc	<u> </u>	s not pres	ent.							
Depth (inc	<u> </u>	s not pres	ent.							
Depth (inc	<u> </u>	s not pres	ent.							

Project/Site: San Jose Island City/C	<sub>County:</sub> Aransas County Sa	ampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sa	
	on, Township, Range: N/A	<u></u>
Landform (hillslone terrace etc.). Barrier island - seaward toe of primary dune	relief (concave, convex, none). Convex	Slone (%): 3-5
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.85969	7 Long: -97.037606	Datum: NAD83
Landform (hillslope, terrace, etc.): Barrier island - seaward toe of primary dune   Local Subregion (LRR or MLRA): LRR T / MLRA 150B   Lat: 27.85969   Soil Map Unit Name: Beaches	NIWI classification	Battim
Are climatic / hydrologic conditions on the site typical for this time of year? Y		
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturble Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ naturally problems	Ded? Are Normal Circumstances pres	
		ŕ
SUMMARY OF FINDINGS – Attach site map showing sam	ipling point locations, transects, in	nportant features, etc.
Hydrophytic Vegetation Present?         Yes X         No           Hydric Soil Present?         Yes	Is the Sampled Area	
Hydric Soil Present? Yes No X		No X
Wetland Hydrology Present? Yes X No		·
Remarks:		
Although dominant hydrophytic vegetation and wet		he sampled area
was determined to not be within a wetland due to t	ne absence of nydric soil.	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicators	s (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cra	icks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegeta	ated Concave Surface (B8)
High Water Table (A2)  High Water Table (A2)  Marl Deposits (B15) (LRF		·
Saturation (A3) Hydrogen Sulfide Odor (C		
Water Marks (B1)  Codingert Page 2 (B2)  Water Marks (B1)  Decrease of Page 2 (B2)		· ·
☑ Sediment Deposits (B2)       ☐ Presence of Reduced Iro         ☑ Drift Deposits (B3)       ☐ Recent Iron Reduction in		le on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Pos	=
Iron Deposits (B5) Other (Explain in Remark	<u> </u>	` '
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Tes	st (D5)
Water-Stained Leaves (B9)	Sphagnum moss	s (D8) <b>(LRR T, U)</b>
Field Observations:		
Surface Water Present? Yes No X Depth (inches):		
Water Table Present? Yes X No Depth (inches): 12" b	pelow surface	Y
Saturation Present? Yes X No Depth (inches): 6" be (includes capillary fringe)	Wetland Hydrology Present?	Yes No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:		
Wetland hydrology was present.		

		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Description of Description of Control
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(VB)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
0				OBL species x 1 =
500/ 51 1 1		= Total Cov		FACW species x 2 =
50% of total cover:	20% of	total cover	·	FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				
7.				1 - Rapid Test for Hydrophytic Vegetation
				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30'x30' )	0.5	V	E 4 0) 4 /	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Spartina patens	25	Y	FACW	be present, unless disturbed or problematic.
2. Panicum amarum	5	<u>N</u>	FAC	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sanling/Shrub Woody plants evaluding vines loss
				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	30	= Total Cov	/er	
50% of total cover: 15	20% of	total cover	<u> 6</u>	
Woody Vine Stratum (Plot size: )				
1				
2.				
3				
4				
5				Hydrophytic
		= Total Cov		Vegetation           Present?         Yes X         No
50% of total cover:	20% of	total cover	:	riesent: res No
Remarks: (If observed, list morphological adaptations below	ow).			
Dominant hydrophytic vegetation was p	resent			
Dominant hydrophytic vegetation was p	nosciii.			

Sampling Point: UD29BPH\_SJI

SOIL Sampling Point: UD29BPH\_SJI

Depth	cription: (Describe Matrix		Red	ox Feature	s			,	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	(S
0-20	10YR 6/2	100					Loamy sand		
				_					
					-				
				_					
Tuna. C=C	`anachtration D=Do		Paduaad Matrix N		. ———		2l continue DL	=Pore Lining, M=M	latvis.
	Concentration, D=De Indicators: (Appli					ams.		Problematic Hyd	
Histoso		cable to all E	Polyvalue B			DD C T I		(A9) <b>(LRR O)</b>	ic cons .
<b>=</b>	pipedon (A2)		Thin Dark S				· —	(A10) <b>(LRR S)</b>	
=	listic (A3)		Loamy Muc	-				/ertic (F18) <b>(outsi</b>	de MLRA 150A.E
	en Sulfide (A4)		Loamy Gley	•	. , .	. •,		Floodplain Soils (F	
	ed Layers (A5)		Depleted Ma		,			s Bright Loamy So	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	<del>-</del> 6)		(MLRA 1	-	
5 cm M	ucky Mineral (A7) <b>(L</b>	.RR P, T, U)	Depleted Da	ark Surface	e (F7)		Red Paren	t Material (TF2)	
	resence (A8) (LRR		Redox Depr		8)			ow Dark Surface (	ΓF12)
_	uck (A9) <b>(LRR P, T)</b>		☐ Marl (F10) <b>(</b>				U Other (Exp	lain in Remarks)	
=	ed Below Dark Surfa	ce (A11)	Depleted O		•	•	<b>-</b> \ 3		
	erk Surface (A12)	(MI DA 450A)	Iron-Mangai					s of hydrophytic ve	-
	Prairie Redox (A16) ( Mucky Mineral (S1) (		_			, U)		l hydrology must b disturbed or proble	
	Gleyed Matrix (S4)	(LKK U, 3)	Delta Ochrid			.0Δ 150R)		disturbed of proble	mauc.
_	Redox (S5)		Piedmont F						
=	d Matrix (S6)						RA 149A, 153C, 15	3D)	
_	urface (S7) (LRR P,	S, T, U)	<del></del>	J	, ,	, (	, , , , ,	,	
	Layer (if observed								
Type:									
Depth (ir	nches):						Hydric Soil Pre	sent? Yes	No X
Remarks:	,						1 -		
H	łydric soil was	s not pres	ent.						

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD30BPH_SJI
In the standard of the BPH	N/A
Landform (hillslope, terrace, etc.): Barrier island - top of primary dune Local Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.85987 Soil Map Unit Name: Beaches	relief (concave, convex, none): Convex
Subregion (LRR or MLRA), LRR T / MLRA 150B Let. 27.85987	0 Langui -97.038022 Solpe (1/8) NAD83
Beaches	Long Baldinii . Loo
Soil Map Unit Name: Deaches	NWI classification: W2001
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	In the County of Acces
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present?         Yes	within a Wetianu! 165 NO
Remarks:	
The sampled area was determined to not be within	
hydrophytic vegetation, hydric soil, and wetland hy	drology.
LIVEROLOGY	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Water (A1)  Aquatic Fauna (B13)	
High Water Table (A2)  Marl Deposits (B15) (LRF	— · · · · · · · · · · · · · · · · · · ·
Saturation (A3)  Hydrogen Sulfide Odor (C	·
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2)  Presence of Reduced Iron	n (C4) Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	· <del>-                               </del>
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	☐ FAC-Neutral Test (D5)☐ Sphagnum moss (D8) <b>(LRR T, U)</b>
Field Observations:	— Opriagnam moss (50) (Erick 1, 0)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections) if available:
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious irispections), ii avaliable.
Remarks:	
Wetland hydrology was not present.	
Wettaria riyarology was not present.	

#### VEGETATION (Four Strata) - Use scientific names of plants. Sampling Point: UD30BPH\_SJI Absolute Dominant Indicator **Dominance Test worksheet:** % Cover Species? Status **Number of Dominant Species** That Are OBL, FACW, or FAC: \_\_\_\_ (A) Total Number of Dominant Species Across All Strata: Percent of Dominant Species That Are OBL, FACW, or FAC: \_ (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by: 0 x 1 = 0OBL species \_\_\_\_ = Total Cover 0 x2 = 0FACW species 50% of total cover: \_\_\_\_\_ 20% of total cover: \_\_\_\_ \_\_\_\_ x 3 = 123 FAC species Sapling/Shrub Stratum (Plot size: \_\_\_\_\_) \_\_\_ x 4 = 80 20 FACU species 14 $_{--}$ $_{x\,5}=70$ **UPL** species Column Totals: 75 \_\_ (A) Prevalence Index = B/A = 3.64**Hydrophytic Vegetation Indicators:** \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation \_\_\_ 2 - Dominance Test is >50%

\_\_\_\_ = Total Cover

Herb Stratum (Plot size: 30 x30				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Panicum amarum	40	Y	FAC	be present, unless disturbed or problematic.
2. Schizachyrium scoparium	20	Υ	FACU	Definitions of Four Vegetation Strata:
3. Dalea leporina	9	N	UPL	Tana Manda danta analadia anima 2 in (7 C ana)
4. Oenothera drummondii	5	N	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of more in diameter at breast height (DBH), regardless of
5. Linum medium	1	N	FAC	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardles
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	75	= Total Co	ver	
50% of total cover: <u>37.5</u>	20% o	of total cove	<sub>r:</sub> 15	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co	ver	Vegetation
50% of total cover:	20% o	of total cover	r:	Present? Yes No X
B 1 /16 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

50% of total cover: \_\_\_\_\_ 20% of total cover: \_\_\_\_

Definitions o	f Four	Vegetation	Strata:	

\_\_\_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

\_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup>

Remarks: (If observed, list morphological adaptations below).

Dominant hydrophytic vegetation was not present.

SOIL Sampling Point: UD30BPH\_SJI

enks  Matrix.  rdric Soils <sup>3</sup> :  side MLRA 150A,I (F19) (LRR P, S, T
rdric Soils <sup>3</sup> : side MLRA 150A,I (F19) (LRR P, S, 1
rdric Soils <sup>3</sup> : side MLRA 150A,I (F19) (LRR P, S, 1
rdric Soils <sup>3</sup> : side MLRA 150A,I (F19) (LRR P, S, 1
rdric Soils <sup>3</sup> : side MLRA 150A,I (F19) (LRR P, S, 1
rdric Soils <sup>3</sup> : side MLRA 150A,I (F19) (LRR P, S, 1
rdric Soils <sup>3</sup> : side MLRA 150A,I (F19) (LRR P, S, 1
rdric Soils <sup>3</sup> : side MLRA 150A,I (F19) (LRR P, S, 1
rdric Soils <sup>3</sup> : side MLRA 150A,I (F19) (LRR P, S, 1
rdric Soils <sup>3</sup> : side MLRA 150A,I (F19) (LRR P, S, 1
rdric Soils <sup>3</sup> : side MLRA 150A,I (F19) (LRR P, S, 1
side MLRA 150A,I (F19) (LRR P, S, 1
(F19) <b>(LRR P, S, 1</b>
(F19) <b>(LRR P, S, 1</b>
(F19) <b>(LRR P, S, 1</b>
Soils (F20)
(75.10)
(TF12)
)
vegetation and
be present,
olematic.
nomatio.
No X

Project/Site: San Jose Island  Applicant/Owner: Port of Corpus Christi Authority	City/County: Aransas County State: TX Sampling Date: UD31BPH_SJI
Landform (hillslope, terrace, etc.): Barrier island - coastal prairie	Section, Township, Range:   N/A     Local relief (concave, convex, none):   None   Slope (%):   3-5     S60120   Long:   -97.038564   Datum:   NAD83     NWI classification:   None
Are climatic / hydrologic conditions on the site typical for this time of years Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly provided in the vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ naturally provided in the vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$	vear? Yes X No (If no, explain in Remarks.)  y disturbed? Are "Normal Circumstances" present? Yes X No
SUMMARY OF FINDINGS – Attach site map showing	g sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X Hydric Soil Present? Yes No X Wetland Hydrology Present? Yes No X No X No X No X No X No X No	within a wetland due to the absence of dominant
HYDROLOGY	
Sediment Deposits (B2)	Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  heres along Living Roots (C3)  Liced Iron (C4)  Liction in Tilled Soils (C6)  E (C7)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)
Surface Water Present? Yes No _X Depth (inches Water Table Present? Yes No _X Depth (inches Saturation Present? Yes No _X Depth (inches (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial phot	s):s): Wetland Hydrology Present? Yes No X
Remarks: Wetland hydrology was not present.	

	ames of pl	ants.		Sampling Point: UD31BPH_S
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)  1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
l				
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  0 (A/B
3				
7.				Prevalence Index worksheet:
3.				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species $0 \times 1 = 0$
50% of total cover:				FACW species $0 \times 2 = 0$
Sapling/Shrub Stratum (Plot size:)	20 /0 01	10101 00101		FAC species 6 x 3 = 18
				FACU species <u>83</u> x 4 = <u>332</u>
l				UPL species 1 x 5 = 5
2.				Column Totals: 90 (A) 355 (B)
3				
l				Prevalence Index = B/A = 3.9
5				Hydrophytic Vegetation Indicators:
ò				1 - Rapid Test for Hydrophytic Vegetation
<b>7</b>				2 - Dominance Test is >50%
3				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov	er er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30'x30' )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Schizachyrium scoparium	80	Υ	FACU	be present, unless disturbed or problematic.
2. Panicum amarum	5	N	FAC	Definitions of Four Vegetation Strata:
3. Commelina erecta	2	N	FACU	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
<sub>I.</sub> Linum medium	1	N	FAC	more in diameter at breast height (DBH), regardless of
Baptisia alba	1	N	FACU	height.
<sub>5.</sub> Dalea leporina	1	N	UPL	Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3.				Hart All back as a configuration of the configurati
9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
11				height.
12				
50% 54.4. 45		= Total Cov		
	20% of	total cover	: 10	
Noody Vine Stratum (Plot size:)				
1				
1				
1 2				
1 2				
1				Hydrophytic
1				Vegetation
1		= Total Cov	ver	

SOIL Sampling Point: UD31BPH\_SJI

Depth	cription: (Describe Matrix		Red	ox Feature	s			,	
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	<u>Texture</u>	Remark	(S
0-20	10YR 6/3	100					Loamy sand		
				_					
	-				· <del></del>				
	·								
				_					
Tuna. C=C	Concentration D-Da		Paduaad Matrix M		d Cand Cr		<sup>2</sup> Leastion: DL	=Pore Lining, M=M	latwis:
	Concentration, D=De Indicators: (Appli					ams.		Problematic Hyd	
Histoso		cable to all L	Polyvalue B			DDCTI		(A9) <b>(LRR O)</b>	ic cons .
	pipedon (A2)		Thin Dark S				· —	(A3) (LRR O) (A10) (LRR S)	
<b>=</b>	listic (A3)		Loamy Mucl	-				/ertic (F18) <b>(outsi</b> c	de MLRA 150A.E
_	en Sulfide (A4)		Loamy Gley	•	. , .	/		Floodplain Soils (F	
	d Layers (A5)		Depleted Ma		` ,			s Bright Loamy So	
Organio	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	<del>-</del> 6)		(MLRA 1	153B)	
	ucky Mineral (A7) <b>(L</b>		Depleted Da	ark Surface	e (F7)			nt Material (TF2)	
	resence (A8) (LRR		Redox Depr		8)			ow Dark Surface (	ΓF12)
	uck (A9) <b>(LRR P, T)</b>		Marl (F10) (				U Other (Exp	olain in Remarks)	
=	ed Below Dark Surfa	ce (A11)	Depleted Oc		•		T) 31		
=	ark Surface (A12)	(MI DA 150A)	Iron-Mangai					rs of hydrophytic ve d hydrology must b	-
	Prairie Redox (A16) ( Mucky Mineral (S1) (		Umbric Surf			, 0)		disturbed or proble	
_	Gleyed Matrix (S4)	(LKK 0, 3)	Reduced Ve			OA 150B)		disturbed of proble	inauc.
_	Redox (S5)		Piedmont FI						
=	d Matrix (S6)						RA 149A, 153C, 15	3D)	
_	urface (S7) (LRR P,	S, T, U)		J	,	, ,	, ,	,	
Restrictive	Layer (if observed	):							
Type:			<u></u>						
Depth (ir	nches):						Hydric Soil Pre	sent? Yes	<sub>No</sub> X
Remarks:									<u> </u>
H	łydric soil was	s not pres	ent.						

Project/Site: San Jose Island City/C	county: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD32BPH_SJ
r r r r . II M BPH	T II B N/A
Landform (hillslope terrace etc.): Barrier island - gulf beach	relief (concave_convex_none). None Slope (%). 2-3
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.85522	0 Long: -97.040081 Datum: NAD83
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.85522 Soil Map Unit Name: Beaches	NWI classification: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y	'es X No (If no explain in Remarks )
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly disturb	
Are Vegetation N, Soil N, or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         X         No	Is the Sampled Area
Hydric Soil Present?         Yes No _X           Wetland Hydrology Present?         Yes _X No	within a Wetland? Yes No X
Remarks:	
Although wetland hydrology was present, the same	oled area was determined to not be within a
wetland due to the absence of dominant hydrophyt	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3)  High Water Table (A2) Saturation (A3)  Hydrogen Sulfide Odor (C	·
Water Marks (B1)  Water Marks (B1)  Water Marks (B1)	
Sediment Deposits (B2)  Presence of Reduced Iron	
Drift Deposits (B3)  Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	☑ Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	(s) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No Depth (inches):	
	Surface Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	
Wettaria riyarology was present.	

		Dominant Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species? Status	Number of Dominant Species
1			That Are OBL, FACW, or FAC: (A)
2			Total Number of Dominant
3			Species Across All Strata: (B)
4			Descent of Descinant Charles
5			Percent of Dominant Species That Are OBL, FACW, or FAC: (A/B)
6			
7			Prevalence Index worksheet:
8.			Total % Cover of: Multiply by:
		Total Cover	OBL species x 1 =
50% of total cover:			FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)			FAC species x 3 =
1			FACU species x 4 =
			UPL species x 5 =
2			Column Totals: (A) (B)
3			
4			Prevalence Index = B/A =
5			Hydrophytic Vegetation Indicators:
6			1 - Rapid Test for Hydrophytic Vegetation
7			2 - Dominance Test is >50%
8			3 - Prevalence Index is ≤3.0 <sup>1</sup>
	=	Total Cover	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of to	otal cover:	
Herb Stratum (Plot size:)			<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1			be present, unless disturbed or problematic.
2.			Definitions of Four Vegetation Strata:
3.			
4.			<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5.			height.
			Continue (Character Wood of the Continue of th
6			Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7			and on Berraina greater than electric in the
8			Herb – All herbaceous (non-woody) plants, regardless
9			of size, and woody plants less than 3.28 ft tall.
10			Woody vine - All woody vines greater than 3.28 ft in
11	<del></del>		height.
12	·		
	=	Total Cover	
50% of total cover:	20% of to	otal cover:	
Woody Vine Stratum (Plot size:)			
1			
2			
3			
4			
5			Hydrophytic
		Total Cover	Vegetation
50% of total cover:			Present? Yes No _X
Remarks: (If observed, list morphological adaptations belo			1
	Jvv ).		
No vegetation was present.			

Sampling Point: UD32BPH\_SJI

SOIL Sampling Point: UD32BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of ir	ndicators.)	
Depth	Matrix			ox Feature		. 2			
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	<u> </u>
0-20	10YR 6/2	100					Loamy sand		
1Typo: C=C	oncentration, D=De	olotion DM-D	oduced Matrix M	S-Mackac	Sand Gr	oine	<sup>2</sup> Location: DL =	Pore Lining, M=Ma	utriv
	Indicators: (Appli					airis.		Problematic Hydri	
		Sable to all El				DDCTI		-	c cons .
Histosol	oipedon (A2)		Polyvalue B				· —	(A9) <b>(LRR O)</b> (A10) <b>(LRR S)</b>	
	stic (A3)		Loamy Much	-				ertic (F18) <b>(outsid</b>	- MI RΔ 150Δ R)
I <b>=</b>	en Sulfide (A4)		Loamy Gley	-		. 0,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma		. 2)			Bright Loamy Soils	
	Bodies (A6) (LRR F	P. T. U)	Redox Dark		6)		(MLRA 1		s (. 20)
	ıcky Mineral (A7) <b>(L</b>		Depleted Da	`	,			t Material (TF2)	
	esence (A8) (LRR I		Redox Depr					ow Dark Surface (T	F12)
	ıck (A9) <b>(LRR P, T)</b>		Marl (F10) (I	LRR U)			Other (Exp	lain in Remarks)	·
Deplete	d Below Dark Surfac	ce (A11)	Depleted Oc	chric (F11)	(MLRA 1	51)			
	ark Surface (A12)		☐ Iron-Mangar					s of hydrophytic ve	
	rairie Redox (A16) <b>(</b>		Umbric Surfa			, U)		hydrology must be	·
	Mucky Mineral (S1)	LRR O, S)	Delta Ochric					disturbed or probler	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont FI	-	, ,	•	•	\D\	
_	Matrix (S6)	C T II\	Anomalous	Bright Loai	my Soils (	F20) (MLR	RA 149A, 153C, 153	30)	
	rface (S7) <b>(LRR P,</b> : Layer (if observed)						1		
	Layer (II Observed)	•							
Type:	-1>		<del></del>				Unadaia Cail Dana	10 V	No X
	ches):						nyuric Soil Pres	sent? Yes	NO <u>/                                  </u>
Remarks:	ydric soil was	not pres	ent						
	yano oon wac	not proc	Oric.						

Project/Site: San Jose Island City/C	County: Aransas County Sampling Date: 10/18/20	)21
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD33BPH	
	on, Township, Range: N/A	
Landform (hillslope, terrace, etc.): Barrier island - seaward toe of primary dune  Local	relief (concave, convex, none); Convex Slope (%); 3-5	)
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.85523	33 Long: -97.040123 Datum: NAD	83
Landform (hillslope, terrace, etc.): Barrier island - seaward toe of primary dune   Local Subregion (LRR or MLRA): LRR T / MLRA 150B   Lat: 27.85523   Soil Map Unit Name: Beaches	NWI classification: M2USP	
Are climatic / hydrologic conditions on the site typical for this time of year? Y		
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly disturb		
Are Vegetation N, Soil N, or Hydrology N naturally problems	atic? (If needed, explain any answers in Remarks.)	
SUMMARY OF FINDINGS – Attach site map showing sam		etc.
Hudrophytia Vagatatian Brasant2 Vag X		
Hydric Soil Present? Yes No X	Is the Sampled Area	
Hydrophytic Vegetation Present?         Yes X         No           Hydric Soil Present?         Yes	within a Wetland? Yes No X	
Remarks:		
Although dominant hydrophytic vegetation and wel		
was determined to not be within a wetland due to t	he absence of hydric soil.	
LIVEROLOGY		
HYDROLOGY	Occasion Indicators (see a set to see a set	-13
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required  Surface Soil Cracks (B6)	<u>a)</u>
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8	١
High Water Table (A2)  Marl Deposits (B15) (LRF	The state of the s	,
Saturation (A3)  Hydrogen Sulfide Odor (C		
☐ Water Marks (B1) ☐ Oxidized Rhizospheres a		
Sediment Deposits (B2) Presence of Reduced Iro		
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)	
☐ Iron Deposits (B5) ☐ Other (Explain in Remark		
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)	
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)	
Field Observations:  Surface Water Present?  Yes No _X Depth (inches):		
Water Table Present? Yes X No Depth (inches): 10" b	below surface	
Saturation Present? Yes X No Depth (inches): 2" be	elow surface Wetland Hydrology Present? Yes X No	
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:		
Wetland hydrology was present.		

Tree Stratum (Plot size:				Sampling Point: UD33BPH_
		Dominant		Dominance Test worksheet:
·		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
				Total Number of Dominant Species Across All Strata: 2 (B)
				Opecies Across All Ottata.
				Percent of Dominant Species That Are OBL_FACW_or_FAC: 100 (A/F
				That Are OBL, FACW, or FAC: 100 (A/E
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
50% of total cover:	20% 01	total cover		FAC species x 3 =
apling/Shrub Stratum (Plot size:)				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 ≤3.0 <sup>1</sup>
		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover		
erb Stratum (Plot size: 30'x30' )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Spartina patens	20	<u>Y</u>	FACW	be present, unless disturbed or problematic.
Panicum amarum	10	<u>Y</u>	FAC	Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
				more in diameter at breast height (DBH), regardless of
				height.
				Sapling/Shrub – Woody plants, excluding vines, less
·				
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
)				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
) 1				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
) 1				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
)	30	Total Cov	er	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
50% of total cover: 15	30	Total Cov	er	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
50% of total cover: 15	30 20% of	= Total Cov	er 6	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
50% of total cover: 15/2/oody Vine Stratum (Plot size:)	30 20% of	= Total Cov	er 6	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
	30 20% of	= Total Cov	er 6	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
	30 20% of	= Total Cov total cover	er 6	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
	30 20% of	= Total Cov total cover	er 6	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.
	30 20% of	= Total Cov total cover	er 6	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic
	30 20% of	= Total Covers	er 6	Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.

SOIL Sampling Point: UD33BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docur	ment the i	ndicator	or confirm	the absence of ir	ndicators.)	
Depth	Matrix			x Features				_	
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remark	3
0-20	10YR 6/2	100					Loamy sand		
									_
				<del>-</del>					
·									
,									
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion RM=R	educed Matrix M	S=Masked	Sand Gr	ains	<sup>2</sup> l ocation: PL =	Pore Lining, M=Ma	ntrix
	Indicators: (Applic					uo.		Problematic Hydri	
☐ Histosol			Polyvalue Be			RR S. T. U		(A9) (LRR O)	
	pipedon (A2)		Thin Dark Su				. 🗆	(A10) <b>(LRR S)</b>	
Black Hi			Loamy Muck					ertic (F18) (outsid	e MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (	F2)		Piedmont F	Floodplain Soils (F1	9) (LRR P, S, T)
	d Layers (A5)		Depleted Ma	trix (F3)				Bright Loamy Soil	s (F20)
	Bodies (A6) (LRR P		Redox Dark	,	,		☐ (MLRA 1		
	icky Mineral (A7) <b>(Lf</b>		Depleted Da					t Material (TF2)	<b>-</b> 40)
	esence (A8) (LRR U	))	Redox Depre	•	8)			ow Dark Surface (T lain in Remarks)	F12)
	ick (A9) <b>(LRR P, T)</b> d Below Dark Surfac	o (Δ11)	Marl (F10) <b>(L</b> Depleted Oc		/MI DA 1	51)	U Other (Exp	iain in Remarks)	
_	ark Surface (A12)	C (A11)	Iron-Mangan		•	•	T) <sup>3</sup> Indicators	s of hydrophytic ve	getation and
	rairie Redox (A16) <b>(I</b>	MLRA 150A)	_					hydrology must be	_
	lucky Mineral (S1) <b>(I</b>		Delta Ochric			•		disturbed or probler	·
	Gleyed Matrix (S4)		Reduced Ve	rtic (F18) <b>(</b>	MLRA 15	0A, 150B)			
Sandy F	Redox (S5)		Piedmont Flo	oodplain S	oils (F19)	(MLRA 14	9A)		
_	Matrix (S6)		Anomalous E	Bright Loar	ny Soils (	F20) <b>(MLR</b>	A 149A, 153C, 153	BD)	
	rface (S7) (LRR P, S						<del></del>		
	Layer (if observed):								
Type:	-l \.						Unadria Cail Bras		No X
Depth (in	cnes):		<del></del>				Hydric Soil Pres	sent? Yes	NO <u>/</u>
Remarks:	ydric soil was	not pres	ent						
	yano oon wao	not proo	Ont.						

Project/Site: San Jose Island City/County: Arar	nsas County Sampling Date: 10/18/2021
	State: TX Sampling Point: UD34BPH_SJ
Januari and Arriva Turnahia	n N/A
Landform (hillslope, terrace, etc.):  Barrier island - top of primary dune  Local relief (concave Subregion (LRR or MLRA): LRR T / MLRA 150B  Soil Map Unit Name: Beaches	ve convex none). Convex
Subsection (I BB or MI BA). LRR T / MLRA 150B Let. 27.855270	Lang: -97.040236
Subregion (LRR of MLRA) Eat Eat Eat Eat	
Soil Map Unit Name: Deadlies	NVVI classification: IVIZOGI
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X	
	Are "Normal Circumstances" present? Yes X No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problematic?	(If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sampling poir	nt locations, transects, important features, etc.
Hydrophytic Vegetation Present?  Hydric Soil Present?  Wetland Hydrology Present?  Yes No  Yes No  Yes No  Within a We	wlad Avaa
Hydric Soil Present?  Yes No X  within a We	V
Wetland Hydrology Present? Yes No X	- 103 NO
Remarks:	
Although dominant hydrophytic vegetation was present, the	•
within a wetland due to the absence of wetland hydrology a	and hydric soil.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRR U)	Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C1)	Moss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizospheres along Living R	
Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Presence of Reduced Iron (C4)	Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in Tilled Soils (C☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7)	(C6) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2)
Iron Deposits (B5)  Other (Explain in Remarks)	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	V
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspecti	tions), if available:
Remarks:	
Wetland hydrology was not present.	

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Dansont of Dansin and Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(752)
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
	20 /6 01	lotal cover	•	FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				Column Totals (7) (8)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:				Problematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30'x30' )	2070 01	10101 00101		1
1. Spartina patens	30	Υ	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Panicum amarum	10	· Y	FAC	
		<u> </u>	<del></del>	Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10				
				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
11		-		height.
12	40			
20		= Total Cov		
50% of total cover: <u>20</u>	20% of	total cover	:	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	/er	Vegetation
50% of total cover:				Present? Yes X No
		total cover	·	
Remarks: (If observed, list morphological adaptations below	•			
Dominant hydrophytic vegetation was p	resent.			
, , , , , , , , , , , , , , , , , , , ,				

Sampling Point: UD34BPH\_SJI

SOIL Sampling Point: UD34BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of in	dicators.)	
Depth	Matrix			ox Feature			_		
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	3
0-20	10YR 7/1	100					Loamy sand		
-	-			_					
									_
1T. (D.) C-C			laduand Matrix M				2l costion: DI =	Pore Lining, M=Ma	.+
	oncentration, D=De Indicators: (Applicators)					airis.		Problematic Hydri	
		cable to all Li				DDCTI		-	c Jons .
Histosol	oipedon (A2)		Polyvalue B Thin Dark S				· —	(A9) (LRR O) (A10) (LRR S)	
	istic (A3)		Loamy Mucl		-			ertic (F18) <b>(outsid</b>	- MI RΔ 150Δ R)
_	en Sulfide (A4)		Loamy Gley	-		. 0,		loodplain Soils (F1	
	d Layers (A5)		Depleted Ma		,			Bright Loamy Soils	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		<del>-</del> 6)		(MLRA 1		()
	ıcky Mineral (A7) <b>(L</b>		Depleted Da	ark Surface	· (F7)		Red Parent	: Material (TF2)	
Muck Pr	esence (A8) (LRR I	J)	Redox Depr	essions (F	8)			w Dark Surface (T	F12)
📗 1 cm Mւ	ıck (A9) <b>(LRR P, T)</b>		Marl (F10) (	LRR U)			U Other (Expl	ain in Remarks)	
I = 1	d Below Dark Surfa	ce (A11)	Depleted Od		•	-	2		
=	ark Surface (A12)		☐ Iron-Mangar					of hydrophytic ve	
	rairie Redox (A16) (		Umbric Surf			', U)		hydrology must be	
	Mucky Mineral (S1) (	LRR 0, S)	Delta Ochrid			OA 450B\		listurbed or probler	natic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ve						
	Matrix (S6)			-			RA 149A, 153C, 153	וח	
	rface (S7) <b>(LRR P,</b>	S. T. U)		Bright Loai	ing cone (	, 20) <b>(IIIL</b> I	1404, 1000, 100	.5,	
	Layer (if observed)								
Type:	• ` `								
	ches):		<u>—</u>				Hydric Soil Pres	sent? Yes	No X
Remarks:							1.,,		
H	ydric soil was	not pres	ent.						
	•	•							

Project/Site: San Jose Island City.	<sub>/County:</sub> Aransas County	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	/County: Aransas County State: TX	Sampling Point: UD35BPH_SJI
Investigator(s): JLM, BPH Section Section Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.8553  Soil Map Unit Name: Beaches	tion, Township, Range: N/A	
Landform (hillslope, terrace, etc.): Barrier island - landward toe of primary dune Local	al relief (concave, convex, none): Conca	ve <sub>Slope (%):</sub> 3-5
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.8553	88 <sub>Long:</sub> -97.040542	Datum: NAD83
Soil Map Unit Name: Beaches	NWI classifi	cation: None
Are climatic / hydrologic conditions on the site typical for this time of year?		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	matic? (If needed, explain any answ	
SUMMARY OF FINDINGS – Attach site map showing sa		
	Impling point locations, transects	s, important leatures, etc.
Hydrophytic Vegetation Present?         Yes	Is the Sampled Area	
Hydric Soil Present? Yes No X	within a Wetland? Yes	No X
Remarks:		
The sampled area was determined to not be within	in a watland due to the absor	oco of dominant
hydrophytic vegetation, hydric soil, and wetland h		ice of dominant
Trydrophytic vegetation, flydric soil, and wetland fi	ydrology.	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		l Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	<del>-</del> -	egetated Concave Surface (B8)
High Water Table (A2)  Seturation (A2)  High Water Table (A2)  Marl Deposits (B15) (L1	· —	atterns (B10)
☐ Saturation (A3) ☐ Hydrogen Sulfide Odor ☐ Water Marks (B1) ☐ Oxidized Rhizospheres	· · · <del></del>	Water Table (C2)
Sediment Deposits (B2)  Presence of Reduced In		· ·
Drift Deposits (B3) Recent Iron Reduction		/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7	) <u> </u>	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Rema	_	, ,
Inundation Visible on Aerial Imagery (B7)	∐ FAC-Neutra	
☐ Water-Stained Leaves (B9)  Field Observations:	Sphagnum	moss (D8) <b>(LRR T, U)</b>
Surface Water Present? Yes No X Depth (inches):		
Water Table Present?  Yes No Depth (inches):		
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Prese	nt? Yes No X
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	revious inspections), if available:	
Remarks:		
Wetland hydrology was not present.		
Wettaria frydrology was not present.		

## **VEGETATION (Four Strata)** – Use scientific names of plants. Sampling Point: UD35BPH\_SJI

<u> </u>		Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)  Total Number of Dominant Species Across All Strata: 2 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 50 (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by: OBL species 0 x1 = 0 FACW species 30 x2 = 60 FAC species 5 x3 = 15 FACU species 63 x4 = 252 UPL species 2 x5 = 10 Column Totals: 100 (A) 337 (B)  Prevalence Index = B/A = 3.37  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.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or transit disparent breath bright (CDI) and readless of
Total Cover:	FACU FACW	Percent of Dominant Species That Are OBL, FACW, or FAC:  Total % Cover of:  Multiply by:  OBL species  0 FACW species  5 FACU species  1 FACU species  2 Column Totals:  10 Frevalence Index = B/A = 3.37  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  Problematic Hydrophytic Vegetation 1 (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
Total Cover:	FACU FACW	Percent of Dominant Species That Are OBL, FACW, or FAC:  Total % Cover of:  Multiply by:  OBL species  0 FACW species  5 FACU species  1 FACU species  2 Column Totals:  10 Frevalence Index = B/A = 3.37  Hydrophytic Vegetation Indicators:  1 - Rapid Test for Hydrophytic Vegetation  2 - Dominance Test is >50%  3 - Prevalence Index is ≤3.0¹  Problematic Hydrophytic Vegetation 1 (Explain)  Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or
otal Cover: _	FACU FACW	That Are OBL, FACW, or FAC: 50 (A/B)  Prevalence Index worksheet:
otal Cover: _  otal Cover: _  otal Cover: _  fotal Cover: _  f F	FACU FACW	That Are OBL, FACW, or FAC: 50 (A/B)  Prevalence Index worksheet:
Total Cover:	FACU FACW	Prevalence Index worksheet:  Total % Cover of: Multiply by:  OBL species 0 x 1 = 0  FACW species 5 x 3 = 15  FACU species 63 x 4 = 252  UPL species 2 x 5 = 10  Column Totals: 100 (A) 337 (B)  Prevalence Index = B/A = 3.37  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.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Total Cover:	FACU FACW	Total % Cover of:  OBL species  OBL species  FACW species  FAC species  FAC species  FACU species  FACU species  OBL species  SACU species  OBL Spe
Total Cover:	FACU FACW	OBL species 0 x1 = 0 FACW species 30 x2 = 60 FAC species 5 x3 = 15 FACU species 63 x4 = 252 UPL species 2 x5 = 10 Column Totals: 100 (A) 337 (B)  Prevalence Index = B/A = 3.37  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.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Total Cover:	FACU FACW	FACW species 30
otal Cover: _ F F F	FACU FACW	FAC species 5 x 3 = 15  FACU species 63 x 4 = 252  UPL species 2 x 5 = 10  Column Totals: 100 (A) 337 (B)  Prevalence Index = B/A = 3.37  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.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
otal Cover: _ F F F	FACU FACW	FACU species 63
otal Cover: _ F F F	FACU FACW	UPL species 2 x 5 = 10 Column Totals: 100 (A) 337 (B)  Prevalence Index = B/A = 3.37  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.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
otal Cover: _ F F F	FACU FACW	Column Totals: 100 (A) 337 (B)  Prevalence Index = B/A = 3.37  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.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
otal Cover: _ F F F	FACU FACW	Prevalence Index = B/A = 3.37  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.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
otal Cover: _ F F F L	FACU FACW	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.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
otal Cover: _ F F F F L	FACU FACW	1 - Rapid Test for Hydrophytic Vegetation2 - 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.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
otal Cover: _ F F F F C	FACU FACW	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.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
otal Cover: _ al cover: _ F F F L	FACU FACW	3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)  ¹Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
otal Cover: _ ral cover: _ F F F F	FACU FACW FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain) <sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
F F F F F F F F F F F F F F F F F F F	ACU ACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
F F	ACU ACW	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
F F	ACW AC	be present, unless disturbed or problematic.  Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
F F	ACW AC	Definitions of Four Vegetation Strata:  Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
F	AC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
<u>F</u>		
	7100	
	JPL	more in diameter at breast height (DBH), regardless of height.
		Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
	_	height.
otal Cove		
_	_	
		Hydrophytic
otal Cove		Vegetation
al cover: _		Present? Yes No X
o a	tal Cover:	l cover:

SOIL Sampling Point: UD35BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of ir	ndicators.)	
Depth	Matrix			ox Feature			_		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	<u> </u>
0-20	10YR 6/3	100					Loamy sand		
				-					
				_					
				_					_
1Typo: C=C	oncentration, D=De	olotion DM-D	oduced Matrix M	S-Mackad	Sand Gr	oine	<sup>2</sup> Location: DL =	Pore Lining, M=Ma	utriv
	Indicators: (Applie					airis.		Problematic Hydri	
Histosol		Jubic to un Ei	Polyvalue B			DD S T I		(A9) <b>(LRR O)</b>	o cons .
_	oipedon (A2)		Thin Dark S				· —	(A10) (LRR S)	
	stic (A3)		Loamy Much	-	-			ertic (F18) <b>(outsid</b>	e MLRA 150A.B)
I <b>=</b>	en Sulfide (A4)		Loamy Gley	-		. •,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma		/			Bright Loamy Soils	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		<sup>-</sup> 6)		(MLRA 1		` ,
5 cm Μι	ıcky Mineral (A7) <b>(L</b>	RR P, T, U)	Depleted Da	ırk Surface	(F7)		Red Parent	t Material (TF2)	
	esence (A8) (LRR I	J)	Redox Depr	•	8)			ow Dark Surface (T	F12)
	ıck (A9) <b>(LRR P, T)</b>		Marl (F10) (I				U Other (Exp	lain in Remarks)	
_	d Below Dark Surfac	ce (A11)	Depleted Oc		•	-	3		
	ark Surface (A12)	MI DA 450A\	Iron-Mangar					s of hydrophytic ve	
	rairie Redox (A16) <b>(</b> lucky Mineral (S1) <b>(</b>		Umbric Surf			, 0)		hydrology must be disturbed or probler	·
_	Gleyed Matrix (S4)	LKK 0, 3)	Reduced Ve			.0Δ 150R)		ilsturbed of probler	nauc.
	Redox (S5)		Piedmont FI						
	Matrix (S6)			-			RA 149A, 153C, 153	3D)	
_	rface (S7) <b>(LRR P,</b>	S, T, U)		J	,	, ,	, ,	,	
Restrictive	Layer (if observed)	:							
Type:			<u></u>						
Depth (in	ches):						Hydric Soil Pres	sent? Yes	No X
Remarks:							<u> </u>		
Н	ydric soil was	not pres	ent.						

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD36BPH_SJI
r r r r . II M BPH	T II D N/A
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Soil Map Unit Name: Not mapped	relief (concave, convex, none). None Slope (%). 2-3
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.84895	4 Long: -97.043052 Datum: NAD83
Soil Man Unit Name: Not mapped	NIMI classification: M2SUP
Are climatic / hydrologic conditions on the site typical for this time of year? You	es X No. (If no explain in Remarks )
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ naturally problema	Jeu: Are Normal Circumstances present: Tes / No No
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important leatures, etc.
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         X         No	Is the Sampled Area
Hydric Soil Present?  Yes No X	within a Wetland? Yes No X
Wetland Hydrology Present? Yes X No	
Remarks:	alad area was determined to not be within a
Although wetland hydrology was present, the samp wetland due to the absence of dominant hydrophyt	
welland due to the absence of dominant hydrophyt	ne vegetation and riguric soil.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRF	
Saturation (A3) Hydrogen Sulfide Odor (C	
☐       Water Marks (B1)       ☐       Oxidized Rhizospheres at Oxidized Rhizospheres a	
Sediment Deposits (B2)  Presence of Reduced Iron  Presence of Reduced Iron  Recent Iron Reduction in	
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches): 2" be	
Saturation Present? Yes X No Depth (inches): at s	Surface Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	l vious inspections), if available:
Remarks:	
Wetland hydrology was present.	

_)	% Cover	Dominant Species?		Dominance Test work  Number of Dominant Sp		
_,			Status	Number of Dominant St	ancine	
				That Are OBL, FACW, of		(A)
				T . IN		
				Total Number of Domin Species Across All Stra		(B)
				,		(-)
						(Δ/Ε
				I mat Are ODE, I AOW, t	JITAO	(/\/L
				Prevalence Index work	ksheet:	
				Total % Cover of:	Multiply	y by:
			er	OBL species	x 1 =	
otal cover				FACW species	x 2 =	
		total covor.		FAC species	x 3 =	
				FACU species	x 4 =	
				UPL species	x 5 =	
				Column Totals:	(A)	(B)
					-	
						ation
4-1				Problematic Hydror	phytic Vegetation	(Explain)
	20% of	total cover:				
				· ·		uc.
				Definitions of Four ve	getation Strata:	
					ast height (DBH),	regardless o
				neight.		
				than 3 in. DBH and grea	ater than 3.28 π (1	m) tall.
				of size, and woody plan	its less than 3.28 f	t tall.
				Woody vine - All wood	ly vines greater tha	an 3.28 ft in
				height.		
	20% of	total cover:				
)						
				Hydrophytic		
	=	= Total Cov	er	Vegetation	Y	
tal cover:	20% of	total cover:		Present? Yes	s No <u>^</u>	
adaptations be	elow).			<u> </u>		
·						
	otal cover:	otal cover: 20% of	= Total Coversity   = Total Coversity	= Total Cover	Percent of Dominant Sp. That Are OBL, FACW, of Total % Cover of:  ———————————————————————————————————	Percent of Dominant Species That Are OBL, FACW, or FAC:    Prevalence Index worksheet:   Total % Cover of:

SOIL Sampling Point: UD36BPH\_SJI

Depth	Matrix			Features 1 2		
(inches) 0-20	Color (moist) 2.5Y 5/2	<u>%</u>	Color (moist)	<u>% Type<sup>1</sup> Loc<sup>2</sup></u>	Texture  Loamy sand	Remarks
0-20	2.51 5/2	100				
	-					
	-					
				=Masked Sand Grains.		=Pore Lining, M=Matrix.
		licable to all L	RRs, unless other	•		r Problematic Hydric Soils <sup>3</sup> :
Histoso	r (A1) pipedon (A2)		=	ow Surface (S8) <b>(LRR S, T</b> face (S9) <b>(LRR S, T, U)</b>		ck (A9) <b>(LRR O)</b> ck (A10) <b>(LRR S)</b>
<b>=</b>	istic (A3)		_	Mineral (F1) (LRR O)		Vertic (F18) <b>(outside MLRA 150A,B</b> )
=	en Sulfide (A4)		Loamy Gleye			Floodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Mat			us Bright Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark S	Surface (F6)	(MLRA	•
	ucky Mineral (A7) <b>(</b>			k Surface (F7)		nt Material (TF2)
	resence (A8) (LRR		Redox Depres	, ,		llow Dark Surface (TF12)
=	uck (A9) <b>(LRR P, T</b> d Below Dark Surfa	•	Marl (F10) (LI	ric (F11) <b>(MLRA 151)</b>	U Other (Ex	plain in Remarks)
=	ark Surface (A12)	ace (ATT)	_	ese Masses (F12) <b>(LRR O</b> ,	P. T) <sup>3</sup> Indicate	ors of hydrophytic vegetation and
=	rairie Redox (A16)	(MLRA 150A)	_	ce (F13) <b>(LRR P, T, U)</b>		d hydrology must be present,
	Mucky Mineral (S1)		_	F17) <b>(MLRA 151)</b>		disturbed or problematic.
Sandy (	Gleyed Matrix (S4)		Reduced Vert	iic (F18) <b>(MLRA 150A, 150</b>	B)	
_	Redox (S5)			odplain Soils (F19) <b>(MLRA</b>		
=	d Matrix (S6)			right Loamy Soils (F20) <b>(M</b> I	LRA 149A, 153C, 1	53D)
	urface (S7) (LRR P Layer (if observed				<u> </u>	
	Layer (II observed	u).				
Type: Depth (in	ohoo):				Hydric Soil Pro	esent? Yes No X
	cries).				Hydric Soil Fit	esent? resNo
Remarks:	lydric soil wa	s not pres	sent.			
-	,					

Project/Site: San Jose Island City/C	ounty: Aransas County S	ampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX S	
Investigator/s): JLM, BPH	on Township Pango: N/A	
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.84898	relief (concave, convex, none). None	Slope (%). 2-3
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.84898	8 Long: -97.043156	Datum: NAD83
Soil Map Unit Name: Beaches	Long NWI classificati	on: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y		
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly disturb		
Are Vegetation N, Soil N, or Hydrology N naturally problems	atic? (If needed, explain any answers	
SUMMARY OF FINDINGS – Attach site map showing sam		
x		
Hydrophytic Vegetation Present? Yes No No No No X	Is the Sampled Area	V
Hydrophytic Vegetation Present?         Yes X         No           Hydric Soil Present?         Yes	within a Wetland? Yes	No X
Remarks:		
Although dominant hydrophytic vegetation and wet	land hydrology were present.	the sampled area
was determined to not be within a wetland due to t		
	,	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indicator	rs (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cr	, ,
Surface Water (A1)  Aquatic Fauna (B13)	<del></del>	ated Concave Surface (B8)
High Water Table (A2)  Saturation (A3)  Marl Deposits (B15) (LRF	· —	·
Saturation (A3)  Water Marks (B1)  Hydrogen Sulfide Odor (C)  Oxidized Rhizospheres a		
Sediment Deposits (B2)  Presence of Reduced Iron		· · ·
Drift Deposits (B3)		ole on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	✓ Geomorphic Po	osition (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	· —	` '
Inundation Visible on Aerial Imagery (B7)	<u>✓</u> FAC-Neutral Te	` '
Water-Stained Leaves (B9)	Sphagnum mos	ss (D8) <b>(LRR T, U)</b>
Field Observations:  Surface Water Present?  Yes No X Depth (inches):		
Water Table Present? Yes X No Depth (inches): 5"		
Saturation Present? Yes X No Depth (inches): at s	surface Wetland Hydrology Present?	Yes X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:		
Wetland hydrology was present.		

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 of:  OBL species  X 1 =
Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  Prevalence Index worksheet: Total % Cover of:  Multiply by:
Species Across All Strata: 1 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet: Total % Cover of: Multiply by:
Species Across All Strata: 1 (B)  Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet: Total % Cover of: Multiply by:
That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:
That Are OBL, FACW, or FAC: 100 (A/B)  Prevalence Index worksheet:  Total % Cover of: Multiply by:
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 Fotalis (F)
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 <sup>1</sup> (Explain)
1 Toblematic Hydrophytic Vegetation (Explain)
_
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Definitions of Four Vegetation Strata:
_ Definitions of Four Vegetation Strata.
Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
more in diameter at breast height (DBH), regardless of height.
- Height
Sapling/Shrub – Woody plants, excluding vines, less
than 3 in. DBH and greater than 3.28 ft (1 m) tall.
Herb – All herbaceous (non-woody) plants, regardless
of size, and woody plants less than 3.28 ft tall.
Woody vine – All woody vines greater than 3.28 ft in
height.
_
_
-
-
_
_
_
_ Hydrophytic
Vegetation
Present? Yes X No
Ve

Sampling Point: UD37BPH\_SJI

SOIL Sampling Point: UD37BPH\_SJI

Depth	cription: (Describe Matrix		Red	ox Feature	s			,	
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remark	(S
0-20	10YR 6/2	100					Loamy sand		
				_					
					. ———				
				_					
Tuna. C=C	`anacatration D=Da		Paduaad Matrix N		. ———		2l continue DL	=Pore Lining, M=M	latvis.
	Concentration, D=De Indicators: (Appli					ams.		Problematic Hyd	
Histoso		cable to all E	Polyvalue B			DD C T I		(A9) <b>(LRR O)</b>	ic cons .
<b>=</b>	pipedon (A2)		Thin Dark S				· —	(A10) <b>(LRR S)</b>	
=	listic (A3)		Loamy Muc	-				/ertic (F18) <b>(outsi</b>	de MLRA 150A.E
	en Sulfide (A4)		Loamy Gley	•	. , .	. •,		Floodplain Soils (F	
	ed Layers (A5)		Depleted Ma		,			s Bright Loamy So	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark	Surface (F	<del>-</del> 6)		(MLRA 1	-	
5 cm M	ucky Mineral (A7) <b>(L</b>	.RR P, T, U)	Depleted Da	ark Surface	e (F7)		Red Paren	t Material (TF2)	
	resence (A8) (LRR		Redox Depr		8)			ow Dark Surface ( <sup>-</sup>	ΓF12)
_	uck (A9) <b>(LRR P, T)</b>		☐ Marl (F10) <b>(</b>				U Other (Exp	lain in Remarks)	
=	ed Below Dark Surfa	ce (A11)	Depleted O		•	•	<b>-</b> \ 3		
	erk Surface (A12)	(MI DA 450A)	Iron-Mangai					s of hydrophytic ve	-
	Prairie Redox (A16) ( Mucky Mineral (S1) (		_			, U)		l hydrology must b disturbed or proble	
	Gleyed Matrix (S4)	(LKK U, 3)	Delta Ochrid			.0Δ 150R)		disturbed of proble	mauc.
_	Redox (S5)		Piedmont F						
=	d Matrix (S6)						RA 149A, 153C, 15	3D)	
_	urface (S7) (LRR P,	S, T, U)	<del></del>	J	, ,	, (	, , , , ,	,	
	Layer (if observed								
Type:									
Depth (ir	nches):						Hydric Soil Pre	sent? Yes	No X
Remarks:	,						1 -		
H	łydric soil was	s not pres	ent.						

Project/Site: San Jose Island	City/County: Aransas (	County	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority		State: TX	Sampling Point: UD38BPH_SJI
Investigator(s): JLM, BPH Section, Township, Range: N/A			
Landform (hillslope, terrace, etc.): Barrier island - top of primary dune Local relief (concave, convex, none): Convex Slope (%): 15-20			
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.8	349065	a: -97.043377	Olope (70):
Soil Map Unit Name: Beaches	Long	y NWI classifica	ation: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes $X$ No (If no, explain in Remarks.)			
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly disturbed? Are "Normal Circumstances" present? Yes $N$ No			
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ 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 X No			
Hydrophytic Vegetation Present?         Yes         X         No           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         No         X	Is the Sampled Are		Y
Wetland Hydrology Present? Yes No X	within a Wetland?	Yes	No X
Remarks:			
Although dominant hydrophytic vegetation was present, the sampled area was determined to not be			
within a wetland due to the absence of wetland hydrology and hydric soil.			
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)  Surface Soil Cracks (B6)			
☐ Surface Water (A1) ☐ Aquatic Fauna (B13) ☐ Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)  Marl Deposits (B15) (LRR U)  Drainage Patterns (B10)			
Saturation (A3) Hydrogen Sulfide Odor (C1) Moss Trim Lines (B16)			
☐ Water Marks (B1) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Dry-Season Water Table (C2)			
Sediment Deposits (B2)  Presence of Reduced Iron (C4)  Crayfish Burrows (C8)			
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in Tilled Soils (C6) ☐ Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	, ,	☐ Geomorphic I	
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)	Shallow Aquit	` '
Inundation Visible on Aerial Imagery (B7)       ✓ FAC-Neutral Test (D5)         Water-Stained Leaves (B9)       Sphagnum moss (D8) (LRR T, U)			
Surface Water Present? Yes No X Depth (inche	e).		
Water Table Present?  Yes No X Depth (inche			
Saturation Present? Yes No X Depth (inche		nd Hydrology Present	t? Yes No_X
(includes capillary fringe)		, ,,	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:			
Remarks:			
Wetland hydrology was not present.			

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Developt of Developer Conscion
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	20 /0 0.	10101 00101		FAC species x 3 =
				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				( , ( ,
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	:	= Total Cov	/er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	:	<u> </u>
Herb Stratum (Plot size: 30'x30' )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Panicum amarum	40	Υ	FAC	be present, unless disturbed or problematic.
2 Spartina patens	20	Y	FACW	Definitions of Four Vegetation Strata:
3. Oenothera drummondii	5	<u>N</u>	UPL	
·				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				no.g.u.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
	65	= Total Cov	/er	
50% of total cover: 32.5				
Woody Vine Stratum (Plot size:)			·	
1			-	
2				
3				
4				
5				Hydrophytic
		= Total Cov	/er	Vegetation Present? Yes X No
50% of total cover:	20% of	total cover	:	Present? Yes X No
Remarks: (If observed, list morphological adaptations belo	w).			
Dominant hydrophytic vegetation was p	recent			
Dominant hydrophytic vegetation was p	i eseiit.			

Sampling Point: UD38BPH\_SJI

SOIL Sampling Point: UD38BPH\_SJI

	Matrix		Rede	ox Feature:			the absence of			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-20	10YR 7/1	100					Loamy sand			
Type: C=C	oncentration, D=Dep	alotion PM-P	oduced Matrix M	IS-Mackad	Sand Gr	nine	<sup>2</sup> Location: P	I - Doro Lin	ning M-Matr	iv
	Indicators: (Applic					aii 13.	Indicators fo			
Histosol		, abio to all 2	Polyvalue B			RRSTI		ck (A9) <b>(LF</b>	-	
	oipedon (A2)		Thin Dark S				· —	ck (A3) <b>(L</b> i ck (A10) <b>(L</b>	•	
Black Hi			Loamy Mucl							MLRA 150A,E
	en Sulfide (A4)		Loamy Gley	-	. , .	,		•	, .	(LRR P, S, T
Stratified	d Layers (A5)		Depleted Ma		•				oamy Soils	•
Organic	Bodies (A6) (LRR F	P, T, U)	Redox Dark	Surface (F	<sup>-</sup> 6)			153B)		
	ıcky Mineral (A7) <b>(L</b>		Depleted Da		` '			ent Materia		
	esence (A8) (LRR U		Redox Depr		8)				Surface (TF	12)
	ick (A9) (LRR P, T)		☐ Marl (F10) (I				U Other (E	xplain in Re	emarks)	
= '	d Below Dark Surfac	ce (A11)	Depleted Od		•	•	T) 3Indicat	one of budge	anhudia vana	tation and
=	ark Surface (A12) rairie Redox (A16) <b>(</b>	MI DA 150A)	☐ Iron-Mangar☐ Umbric Surf						ophytic vege gy must be p	
	fairle Redox (A16) <b>(</b> fucky Mineral (S1) <b>(</b>		Delta Ochric			, 0)			l or problema	
_	Gleyed Matrix (S4)	Little O, O,	Reduced Ve			0A. 150B)		3 distuibed	or probleme	ilio.
	Redox (S5)		☐ Piedmont FI							
_	Matrix (S6)						A 149A, 153C, 1	53D)		
Dark Su	rface (S7) <b>(LRR P,</b> \$	S, T, U)								
Restrictive I	Layer (if observed)	:								
Type:										
Depth (inc	ches):						Hydric Soil P	resent?	Yes	No X
Remarks:			ant							
Remarks:	ydric soil was	not pres	CIII.							
Remarks:	ydric soil was	not pres	GIII.							
emarks:	ydric soil was	not pres	CIII.							
emarks:	ydric soil was	s not pres	ent.							
emarks:	ydric soil was	s not pres	ent.							
emarks:	ydric soil was	s not pres	ent.							
emarks:	ydric soil was	s not pres	ent.							
emarks:	ydric soil was	s not pres	ent.							
emarks:	ydric soil was	s not pres	erit.							
emarks:	ydric soil was	s not pres	erit.							
Remarks:	ydric soil was	s not pres	erit.							
emarks:	ydric soil was	s not pres	erit.							
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emarks:	ydric soil was	s not pres	erit.							
Remarks:	ydric soil was	s not pres	erit.							
Remarks:	ydric soil was	s not pres	erit.							
Remarks:	ydric soil was	s not pres	Grit.							
Remarks:	ydric soil was	s not pres	Grit.							
Remarks:	ydric soil was	s not pres	Grit.							
Remarks:	ydric soil was	s not pres	Grit.							
emarks:	ydric soil was	s not pres	Grit.							
emarks:	ydric soil was	s not pres	Grit.							

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD39BPH_SJI
Investigator/s): JLM, BPH	n Township Pango: N/A
Landform (hillslope, terrace, etc.): Barrier island - coastal prairie Local	relief (concave, convex, none): Convex
Subragian (I BB as MI DA): LRR T / MLRA 150B Lat. 27.84942	1 Length -97.044655 Solphe (1/8) Slophe (1/8) NAD83
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.84942 Soil Map Unit Name: Beaches	Long Datum
Are climatic / hydrologic conditions on the site typical for this time of year? You	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	ped? Are "Normal Circumstances" present? Yes X No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problema	ttic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present?         Yes	within a Wetland? Yes No
Remarks:	
The sampled area was determined to not be within	a wetland due to the absence of dominant
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRF	
□ Saturation (A3)           □ Hydrogen Sulfide Odor (Control of the control of the contr	
Drift Deposits (B3)  Recent Iron Reduction in	
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5) Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes No X
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was not present.	

Tree Stratum (Plot size:)  1  2	Absolute % Cover	Dominant	Indicator	Dominance Test worksheet:			
1	<u>% Cover</u>			Dominarios root workeriooti			
				Number of Dominant Species That Are OBL FACW or FAC: 1 (A)			
2				That Are OBL, FACW, or FAC: 1 (A)			
				Total Number of Dominant			
3				Species Across All Strata: 3 (B)			
4				Percent of Dominant Species			
5				That Are OBL, FACW, or FAC: 33 (A/B)			
6				Prevalence Index worksheet:			
7				Total % Cover of: Multiply by:			
8				OBL species 1 x 1 = 1			
50% of total cover:		= Total Cov		FACW species $0 \times 2 = 0$			
Sapling/Shrub Stratum (Plot size: 30'x30' )	20 /6 01	total cover	·	FAC species 31 x 3 = 93			
1. Prosopis glandulosa	30	Υ	UPL	FACU species 66 x 4 = 264			
				UPL species 32 x 5 = 160			
2				Column Totals: <u>130</u> (A) <u>518</u> (B)			
3							
4				Prevalence Index = B/A = 4			
5				Hydrophytic Vegetation Indicators:			
6				1 - Rapid Test for Hydrophytic Vegetation			
7				2 - Dominance Test is >50%			
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>			
45		= Total Cov	_	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)			
	20% of	total cover	0				
Herb Stratum (Plot size: 30'x30' )	00	<b>V</b>	E4011	<sup>1</sup> Indicators of hydric soil and wetland hydrology must			
1. Schizachyrium scoparium	_ 60	Y	FACU	be present, unless disturbed or problematic.			
2. Ambrosia psilostachya	_ 30	<u>Y</u>	FAC	Definitions of Four Vegetation Strata:			
3. Phytolacca americana	_ 1	N	FACU	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or			
4. Sonchus asper	_ 1	N	FACU	more in diameter at breast height (DBH), regardless			
5. Baptisia alba	_ 1	N	FACU	height.			
6. Verbena bonariensis	_ 1	N	FAC	Sapling/Shrub – Woody plants, excluding vines, less			
7. Asclepias oenotheroides	_ 1	N	FACU	than 3 in. DBH and greater than 3.28 ft (1 m) tall.			
<sub>8.</sub> Opuntia stricta	_ 1	N	UPL	<b>Herb</b> – All herbaceous (non-woody) plants, regardless			
<sub>9.</sub> <u>Plantago media</u>	_ 1	<u>N</u>	UPL	of size, and woody plants less than 3.28 ft tall.			
10. Parietaria pensylvanica	_ 1	<u>N</u>	FACU	<b>Woody vine</b> – All woody vines greater than 3.28 ft in			
11. Heliotropium curassavicum	_ 1	<u>N</u>	OBL	height.			
12. Chamaecrista fasciculata	_ 1	<u>N</u>	FACU				
	100	= Total Cov	er				
50% of total cover: 50	20% of	total cover	20				
Woody Vine Stratum (Plot size:)							
1							
2							
3							
4							
5.				Hydrophytic			
		= Total Cov	er	Vegetation			
50% of total cover:				Present? Yes No _X			
Remarks: (If observed, list morphological adaptations be Dominant hydrophytic vegetation was	low).						

SOIL Sampling Point: UD39BPH\_SJI

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the	indicator	or confirn	n the absence of ir	ndicators.)	
Depth	Matrix			ox Feature		Loc <sup>2</sup>	Tardina	Damani	_
(inches) 0-10	Color (moist) 2.5Y 4/1	- <u>%</u> -	Color (moist)	%	Type <sup>1</sup>	LOC	<u>Texture</u> Loamy clay	Remark	.S
10-20	10YR 6/3	100			·		Loamy sand		
		<del></del>		-					
<del> </del>					. ——				
	oncentration, D=Dep					ains.		Pore Lining, M=M	
l <u> </u>	Indicators: (Applic	cable to all L				DD 0 T 1		Problematic Hydr	IC SOIIS :
Histosol	(A1) pipedon (A2)		Polyvalue B				· —	(A9) <b>(LRR O)</b> (A10) <b>(LRR S)</b>	
. =	istic (A3)		Loamy Muck					ertic (F18) <b>(outsid</b>	le MI RA 150A.B)
_	en Sulfide (A4)		Loamy Gley	-		. 0,		Floodplain Soils (F	
	d Layers (A5)		Depleted Ma		(- –)			Bright Loamy Soi	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		<del>-</del> 6)		(MLRA 1		,
5 cm Mı	ucky Mineral (A7) <b>(L</b> l	RR P, T, U)	Depleted Da	ırk Surface	e (F7)			t Material (TF2)	
	resence (A8) <b>(LRR U</b>	J)	Redox Depr	•	8)			ow Dark Surface (T	F12)
	uck (A9) (LRR P, T)	(4.44)	Marl (F10) (I				U Other (Exp	lain in Remarks)	
· = ·	d Below Dark Surfac	ce (A11)	Depleted Oc				T) <sup>3</sup> Indicator	a of budrophytic ye	actation and
· =	ark Surface (A12) rairie Redox (A16) <b>(</b>	MI RA 150A)	☐ Iron-Mangar☐ Umbric Surf					s of hydrophytic ve hydrology must be	-
. =	лиску Mineral (S1) <b>(</b>		Delta Ochric			, •,		disturbed or proble	
	Gleyed Matrix (S4)		Reduced Ve			0A, 150B)			
_	Redox (S5)		Piedmont FI						
	l Matrix (S6)		Anomalous	Bright Loa	my Soils (	F20) <b>(MLR</b>	RA 149A, 153C, 153	BD)	
	rface (S7) (LRR P,								
	Layer (if observed)	:							
Type:									Y
Depth (in	ches):		<del></del>				Hydric Soil Pres	sent? Yes	No X
Remarks:	lydric soil was	not pres	ent						
	oils appear to	•		nictorio	droda	o cnoil	matarial plac	omont as inc	dicated by
	• •		ciated with i	IISTOLIC	ureug	e spoii	materiai piac	ement as inc	ilcaled by
lC	op loamy clay	norizon.							

Project/Site: San Jose Island City/C	county: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD40BPH_SJI
Investigator(a): JI M BPH	n Taurahia Dangai N/A
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.84511 Soil Map Unit Name: Beaches	relief (concave, convey, none). None Slone (%): 2-3
Subragian (LRR or MLRA): LRR T / MLRA 150B Lat. 27.84511	0 Leggy -97.044599 Solpe (78) NAD83
Beaches	Long Baldin M2LISP
Soil Map Unit Name: Deaches	NWI classification: W2001
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes No X	Is the Sampled Area
Hydrophytic Vegetation Present?         Yes X         No           Hydric Soil Present?         Yes No X           Wetland Hydrology Present?         Yes X         No	within a Wetland? Yes No
Remarks:	
Although dominant hydrophytic vegetation and wet	
was determined to not be within a wetland due to t	he absence of hydric soil.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Sparsoly Vegetated Conceins Surface (BR)
Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Marl Deposits (B15) (LRF	Sparsely Vegetated Concave Surface (B8)  R U)  Drainage Patterns (B10)
Saturation (A3)  Hydrogen Sulfide Odor (C	
Water Marks (B1)  Oxidized Rhizospheres a	
Sediment Deposits (B2)  Presence of Reduced Iron	
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	<del>_</del>
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)  Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches): 6" from the first term of the fir	om surface
Saturation Present? Yes X No Depth (inches): at s	surface Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	
Wettaria riyarology was present.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Description of Description of Control
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(/\text{\text{\$\texitex{\$\texit{\$\tex{\$\texitt{\$\texitet{\$\texitt{\$\text{\$\texitt{\$\texitte}\$\tincet
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
··-		= Total Co		OBL species x 1 =
FOO/ of total covery				FACW species x 2 =
50% of total cover:	20% 0	i total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				
3				Column Totals: (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				
8				X 2 - Dominance Test is >50%
0				3 - Prevalence Index is ≤3.0 <sup>1</sup>
500/ 54 4 4		= Total Co		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% o	total cover	:	
Herb Stratum (Plot size: 30'x30' )	40	V	E A C) A /	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Spartina patens	_ <u>10</u>	<u>Y</u>	FACW	be present, unless disturbed or problematic.
2				Definitions of Four Vegetation Strata:
3				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				of size, and woody plants less than 3.20 it tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Co		
50% of total cover: 5	20% o	f total cover	: 2	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co		Vegetation Present? Yes X No
50% of total cover:		f total cover	:	
Remarks: (If observed, list morphological adaptations bel	ow).			
Dominant hydrophytic vegetation was p	oresent.			

Sampling Point: UD40BPH\_SJI

SOIL Sampling Point: UD40BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	the absence of ir	dicators.)	
Depth	Matrix			ox Feature			_		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	<u> </u>
0-20	10YR 5/2	100					Loamy sand		
				-					
				_					
				_					_
1Typo: C=C	oncentration, D=De	olotion DM-D	oduced Matrix M	S-Mackad	Sand Gr	oine	<sup>2</sup> Location: DL =	Pore Lining, M=Ma	utriv
	Indicators: (Applie					airis.		Problematic Hydri	
Histosol		Jubic to un Ei	Polyvalue B			DD S T I		(A9) (LRR O)	0 00113 .
_	oipedon (A2)		Thin Dark S				· —	(A10) (LRR S)	
	stic (A3)		Loamy Much					ertic (F18) <b>(outsid</b>	e MLRA 150A.B)
I <b>=</b>	en Sulfide (A4)		Loamy Gley	-		. •,		loodplain Soils (F1	
	d Layers (A5)		Depleted Ma		/			Bright Loamy Soils	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		<sup>-</sup> 6)		(MLRA 1		` ,
5 cm Μι	ıcky Mineral (A7) <b>(L</b>	RR P, T, U)	Depleted Da	ırk Surface	(F7)		<u></u> Red Parent	: Material (TF2)	
	esence (A8) (LRR I	J)	Redox Depr	•	8)			w Dark Surface (T	F12)
	ıck (A9) <b>(LRR P, T)</b>		Marl (F10) (I				U Other (Exp	ain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Oc		•	-	3		
	ark Surface (A12)	MI DA 450A\	Iron-Mangar					s of hydrophytic ve	
	rairie Redox (A16) <b>(</b> lucky Mineral (S1) <b>(</b>		Umbric Surf			, 0)		hydrology must be listurbed or probler	·
	Gleyed Matrix (S4)	LKK 0, 3)	Delta Ochric			.0Δ 150R)		iisturbed or probler	nauc.
	Redox (S5)		Piedmont FI						
	Matrix (S6)			-			A 149A, 153C, 153	(D)	
_	rface (S7) <b>(LRR P,</b>	S, T, U)		J	,	, ,	, ,	,	
Restrictive	Layer (if observed)	:							
Type:			<u> </u>						
Depth (in	ches):						Hydric Soil Pres	sent? Yes	No X
Remarks:							1		
Н	ydric soil was	not pres	ent.						

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD41BPH_SJI
	on, Township, Range: N/A
Barrier island - top of primary dune	Convex ou 20
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.84516	4 Lengt -97.044899 Solpe (78) NAD83
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problems	ttic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No X	
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present?         Yes	within a Wetland? Yes No
Remarks:	
The sampled area was determined to not be within	a wetland due to the absence of dominant
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)  And Reposite (B15) (B15)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3)  Hydrogen Sulfide Odor (C	
Water Marks (B1)  Water Marks (B1)  Oxidized Rhizospheres a	
Sediment Deposits (B2)  Presence of Reduced Iron	
Drift Deposits (B3)	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	☐ Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was not present.	

<b>EGETATION (Four Strata)</b> – Use scientific na	illes of bi	ants.		Sampling Point: UD41BPH_S
Franc Stratium (Diet sine)		Dominant		Dominance Test worksheet:
ree Stratum (Plot size:)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
-				That Ale OBL, FACW, of FAC.
				Total Number of Dominant
				Species Across All Strata: 2 (B)
				Percent of Dominant Species That Are OBL_FACW_or FAC: 50 (A/B
				That Are OBL, FACW, or FAC: 50 (A/B
-				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		 = Total Cov		OBL species $0 \times 1 = 0$
50% of total cover:				FACW species $0 \times 2 = 0$
apling/Shrub Stratum (Plot size:)	20 /6 01	total cover.		FAC species 35 x 3 = 105
				FACU species 25 x 4 = 100
				UPL species $0 \times 5 = 0$
				Column Totals: 60 (A) 205 (B)
-				
-				Prevalence Index = B/A = 3.4
				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 <sup>1</sup>
E00/ (1.1.)		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover:		
lerb Stratum (Plot size: 30'x30' ) Panicum amarum	35	V	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Schizachyrium scoparium	25	<u>'</u>	FACU	be present, unless disturbed or problematic.
· <del></del>	· <del></del>	<del></del>		Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) of
				more in diameter at breast height (DBH), regardless o height.
•				neight.
				Sapling/Shrub – Woody plants, excluding vines, less
•				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
•				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
0				Woody vine – All woody vines greater than 3.28 ft in
1				height.
2				
30		= Total Cov		
50% of total cover: 30	20% of	total cover:	12	
/oody Vine Stratum (Plot size:)				
•				
•				
				Hydrophytic
		= Total Cov		Vegetation
50% of total cover:	20% of	total cover:		Fresent: TesNo
50% of total cover:		total cover:	·	Present? Yes No _X

SOIL Sampling Point: UD41BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of in	dicators.)	
Depth	Matrix			ox Feature			_		
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	3
0-20	10YR 7/1	100					Loamy sand		
-	-			_					
									_
1T. (D.) C-C			laduand Matrix M				2l continu DI =	Pore Lining, M=Ma	.+
	oncentration, D=De Indicators: (Applicators)					airis.		Problematic Hydri	
		cable to all Li				DDCTI		-	c Jons .
Histosol	oipedon (A2)		Polyvalue B Thin Dark S				· —	(A9) (LRR O) (A10) (LRR S)	
	istic (A3)		Loamy Mucl		-			ertic (F18) <b>(outsid</b>	- MI RΔ 150Δ R)
_	en Sulfide (A4)		Loamy Gley	-		. 0,		loodplain Soils (F1	
	d Layers (A5)		Depleted Ma		,			Bright Loamy Soils	
	Bodies (A6) (LRR I	P, T, U)	Redox Dark		<del>-</del> 6)		(MLRA 1		()
	ıcky Mineral (A7) <b>(L</b>		Depleted Da	ark Surface	· (F7)		Red Parent	: Material (TF2)	
Muck Pr	esence (A8) (LRR I	J)	Redox Depr	essions (F	8)			w Dark Surface (T	F12)
📗 1 cm Mւ	ıck (A9) <b>(LRR P, T)</b>		Marl (F10) (	LRR U)			U Other (Expl	ain in Remarks)	
I = 1	d Below Dark Surfa	ce (A11)	Depleted Od		•	-	2		
=	ark Surface (A12)		☐ Iron-Mangar					of hydrophytic ve	
	rairie Redox (A16) (		Umbric Surf			', U)		hydrology must be	
	Mucky Mineral (S1) (	LRR 0, S)	Delta Ochrid			OA 450B\		listurbed or probler	natic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ve						
	Matrix (S6)			-			RA 149A, 153C, 153	וח	
	rface (S7) <b>(LRR P,</b>	S. T. U)		Bright Loai	ing cone (	, 20) <b>(IIIL</b> I	1404, 1000, 100	.5,	
	Layer (if observed)								
Type:	• ` `								
	ches):		<u>—</u>				Hydric Soil Pres	sent? Yes	No X
Remarks:							1.,,		
H	ydric soil was	not pres	ent.						
	•	•							

Project/Site: San Jose Island	City/County: Ar	ransas County	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	_ , ,_	State: TX	Sampling Date: 10/18/2021 Sampling Point: UD42BPH_SJI
Investigator(s): JLM, BPH  Landform (hillslope, terrace, etc.): Barrier island - secondary dur	Section, Townsh	nip, Range: N/A	
Landform (hillslope, terrace, etc.): Barrier island - secondary dur	ne Local relief (con	cave, convex, none); Conve	Slope (%): 20
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27		Long: -97.045358	Datum: NAD83
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27 Soil Map Unit Name: Beaches		NWI classif	ication: None
Are climatic / hydrologic conditions on the site typical for this time of	of year? Yes X	No (If no, explain in	Remarks.)
			present? Yes X No
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	v problematic?	(If needed, explain any answ	
SUMMARY OF FINDINGS – Attach site map show			
Libration by the Versatation Presents Vers			
Hydric Soil Present? Yes No X	- Is the Sa	mpled Area	V
Hydrophytic Vegetation Present?         Yes         No X           Hydric Soil Present?         Yes         No X           Wetland Hydrology Present?         Yes         No X	— within a	Wetland? Yes	No <u>^</u>
Remarks:			
The sampled area was determined to not be	within a wetl	and due to the abser	nce of dominant
hydrophytic vegetation, hydric soil, and wetl			
	,		
HYDROLOGY			
Wetland Hydrology Indicators:			cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that app			il Cracks (B6)
Surface Water (A1)  Aquatic Fauna	, ,	<del></del>	egetated Concave Surface (B8)
High Water Table (A2)  Continue (A2)  High Water Table (A2)  Marl Deposits (A2)			atterns (B10)
☐ Saturation (A3)       ☐ Hydrogen Sulfi         ☐ Water Marks (B1)       ☐ Oxidized Rhizo	de Odor (CT) espheres along Living	_	Lines (B16) n Water Table (C2)
	educed Iron (C4)	Crayfish Bu	
	eduction in Tilled Soil		Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			c Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain	, ,	Shallow Aq	uitard (D3)
Inundation Visible on Aerial Imagery (B7)		☐ FAC-Neutra	al Test (D5)
Water-Stained Leaves (B9)		☐ Sphagnum	moss (D8) (LRR T, U)
Field Observations:			
Surface Water Present? Yes No X Depth (inc			
Water Table Present? Yes No X Depth (inc	hes):	-	
Saturation Present? Yes No X Depth (includes capillary fringe)	hes):	Wetland Hydrology Prese	ent? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial p	hotos, previous insp	ections), if available:	
Remarks:			
Wetland hydrology was not present.			

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)  1	% Cover			Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Descent of Descinant Charica
5				Percent of Dominant Species That Are OBL, FACW, or FAC:  0 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:  OBL species 0 x 1 = 0
	:	= Total Co	ver	
50% of total cover:	20% of	total cover	:	FACW species $0$ $x = 0$ FAC species $10$ $x = 30$
Sapling/Shrub Stratum (Plot size:)				FACU species 87 x 4 = 348
1				UPL species 3 x 5 = 15
2				Column Totals: 100 (A) 393 (B)
3				Column Totals. (A) (B)
4				Prevalence Index = $B/A = 3.93$
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30'x30' )	90	V	EACH	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Schizachyrium scoparium	- <del>80</del> 5	<u>Y</u> N	FACU FACU	be present, unless disturbed or problematic.
2. Asclepias oenotheroides	- <del>5</del>	N		Definitions of Four Vegetation Strata:
3. Ambrosia psilostachya	- <del>5</del>	N	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Cosmos bipinnatus 5. Opuntia stricta	- 2	N	FAC UPL	more in diameter at breast height (DBH), regardless of height.
6. Baptisia alba	- 1	N	FACU	neight.
7. Commelina erecta	- <del>'</del>	N	FACU	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8. Physalis cinerascens	- <del>'</del>	N	UPL	than 3 iii. DBH and greater than 3.20 it (1 iii) tall.
**		<u>IN</u>	OFL	Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	100	= Total Cov		
50% of total cover: <u>50</u>	20% of			
	20% 01	total cover	· <del></del>	
Woody Vine Stratum (Plot size:)				
1				
2				
٠				
Δ				Hodoobad's
4				
4				Hydrophytic Vegetation
5	- <u> </u>	= Total Co	ver .	Vegetation Present?  Yes No X
5 50% of total cover:	 20% of	= Total Co	ver .	Vegetation
5 50% of total cover: Remarks: (If observed, list morphological adaptations below the content of the content o	20% of low).	= Total Cover	ver .	Vegetation
5  50% of total cover:  Remarks: (If observed, list morphological adaptations below the content of the content o	20% of low).	= Total Cover	ver .	Vegetation
5	20% of low).	= Total Cover	ver .	Vegetation
5  50% of total cover:  Remarks: (If observed, list morphological adaptations below the content of the content o	20% of low).	= Total Cover	ver .	Vegetation
5  50% of total cover:  Remarks: (If observed, list morphological adaptations below the content of the content o	20% of low).	= Total Cover	ver .	Vegetation

Sampling Point: UD42BPH\_SJI

SOIL Sampling Point: UD42BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of ir	ndicators.)	
Depth	Matrix			ox Feature			_		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	<u> </u>
0-20	10YR 6/3	100					Loamy sand		
				-					
				_					
				_					_
1Typo: C=C	oncentration, D=De	olotion DM-D	oduced Matrix M	S-Mackad	Sand Gr	oine	<sup>2</sup> Location: DL =	Pore Lining, M=Ma	utriv
	Indicators: (Applie					airis.		Problematic Hydri	
Histosol		Jubic to un Ei	Polyvalue B			DD S T I		(A9) <b>(LRR O)</b>	o cons .
_	oipedon (A2)		Thin Dark S				· —	(A10) (LRR S)	
	stic (A3)		Loamy Much		-			ertic (F18) <b>(outsid</b>	e MLRA 150A.B)
I <b>=</b>	en Sulfide (A4)		Loamy Gley	-		. •,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma		/			Bright Loamy Soils	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		<sup>-</sup> 6)		(MLRA 1		` ,
5 cm Μι	ıcky Mineral (A7) <b>(L</b>	RR P, T, U)	Depleted Da	ırk Surface	(F7)		Red Parent	t Material (TF2)	
	esence (A8) (LRR I	J)	Redox Depr	•	8)			ow Dark Surface (T	F12)
	ıck (A9) <b>(LRR P, T)</b>		Marl (F10) (I				U Other (Exp	lain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Oc		•	-	3		
	ark Surface (A12)	MI DA 450A\	Iron-Mangar					s of hydrophytic ve	
	rairie Redox (A16) <b>(</b> lucky Mineral (S1) <b>(</b>		Umbric Surf			, 0)		hydrology must be disturbed or probler	·
_	Gleyed Matrix (S4)	LKK 0, 3)	Reduced Ve			.0Δ 150R)		ilsturbed of probler	nauc.
	Redox (S5)		Piedmont FI						
	Matrix (S6)			-			RA 149A, 153C, 153	3D)	
_	rface (S7) <b>(LRR P,</b>	S, T, U)		J	,	, ,	, ,	,	
Restrictive	Layer (if observed)	:							
Type:			<u></u>						
Depth (in	ches):						Hydric Soil Pres	sent? Yes	No X
Remarks:							<u> </u>		
Н	ydric soil was	not pres	ent.						

Project/Site: San Jose Isla Applicant/Owner: Port of Co Investigator(s): JLM, BPH Landform (hillslope, terrace, etc Subregion (LRR or MLRA): LR	orpus Christi Autho b.): Barrier island - coa RR T / MLRA 150E	ority Section astal prairie	on, Township,	State: TX  N/A  N/A  Ve, convex, none): Humr  Long: -97.046504	Datu	JD43BPH_SJI (%): 3-5
Soil Map Unit Name: Beache			V	NWI class		
Are climatic / hydrologic condition						
Are Vegetation $N$ , Soil $N$	, or Hydrology N	significantly disturl	bed?			No
Are Vegetation N, Soil N	, or Hydrology N	naturally problema	atic? (	If needed, explain any ans	wers in Remarks.)	
SUMMARY OF FINDING	S – Attach site ma	ap showing sam	pling poi	nt locations, transec	ts, important fea	itures, etc.
Hydrophytic Vegetation Preser Hydric Soil Present? Wetland Hydrology Present? Remarks:	nt? Yes Yes Yes	No X No X No X	Is the Samp		No X	
The sampled area w	vas determined to	not be within	a wetler	nd due to the abse	nce of domina	nt
hydrophytic vegetation				id due to the abse	THE OF COMMINA	110
HYDROLOGY						
Wetland Hydrology Indicator	rs:			Secondary Ind	icators (minimum of tv	vo required)
Primary Indicators (minimum o	of one is required; check	all that apply)		Surface S	oil Cracks (B6)	
Surface Water (A1)		atic Fauna (B13)			√egetated Concave Su	urface (B8)
High Water Table (A2)		Deposits (B15) (LRF	•		Patterns (B10)	
Saturation (A3)		ogen Sulfide Odor (C			Lines (B16)	
Water Marks (B1) Sediment Deposits (B2)		ized Rhizospheres a ence of Reduced Iro			on Water Table (C2) Burrows (C8)	
Drift Deposits (B3)		ent Iron Reduction in		= '	ı Visible on Aerial <b>I</b> ma	aerv (C9)
Algal Mat or Crust (B4)		Muck Surface (C7)	(		nic Position (D2)	37 (7
Iron Deposits (B5)	Othe	er (Explain in Remark	s)	_	quitard (D3)	
Inundation Visible on Aeri	al Imagery (B7)			FAC-Neut	ral Test (D5)	
Water-Stained Leaves (BS	9)			☐ Sphagnun	n moss (D8) <b>(LRR T, l</b>	J)
Field Observations:						
Surface Water Present?	Yes No X	Depth (inches):				
Water Table Present?	Yes No X	Depth (inches):				V
Saturation Present?	Yes No X	Depth (inches):		Wetland Hydrology Pres	sent? Yes	No X
(includes capillary fringe)  Describe Recorded Data (stream)	am gauge, monitoring we	ell, aerial photos, pre	vious inspect	ions), if available:		
Remarks:	_					
Wetland hydrology w	vas not present					
Welland Hydrology W	ras not present.					

### 

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:) 1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
2				Total Number of Dominant Species Across All Strata: 2 (B)
3				Species Across All Strata: 2 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: $0$ (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
8				OBL species $0 \times 1 = 0$
		= Total Cov		FACW species 5 x 2 = 10
50% of total cover:	20% of	total cover		FAC species $0 \times 3 = 0$
Sapling/Shrub Stratum (Plot size: 30'x30' )  1. Prosopis glandulosa	15	V	UPL	FACU species 91 x 4 = 364
				UPL species 3 x 5 = 15
2				Column Totals: 99 (A) 389 (B)
3				(1)
4				Prevalence Index = B/A = 3.9
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover: 7.5	20% of	total cover	3	
Herb Stratum (Plot size: 30'x30'			= 4 0 1 1	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Schizachyrium scoparium	84	<u>Y</u>	FACU	be present, unless disturbed or problematic.
2. Abutilon theophrasti	5	N	FACU	Definitions of Four Vegetation Strata:
3. Paspalum monostachyum	5	N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Lepidium virginicum	2	<u>N</u>	UPL	more in diameter at breast height (DBH), regardless of
5. Sonchus asper		<u>N</u>	FACU	height.
6. Baptisia alba	1	N	FACU	Sapling/Shrub – Woody plants, excluding vines, less
7. Plantago media	1	N	UPL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12.				
	99	= Total Cov	er	
50% of total cover: 49.5	20% of	total cover:	19.8	
Woody Vine Stratum (Plot size:)				
1				
2.				
3.				
4.				
5.				Hydrophytic
		= Total Cov		Hydrophytic Vegetation
50% of total cover:				Present? Yes No X
Remarks: (If observed, list morphological adaptations belo		10101 00101	·	
	•			
Dominant hydrophytic vegetation was n	ot prese	ent.		

SOIL Sampling Point: UD43BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of inc	dicators.)	
Depth	Matrix			x Features					
(inches) 0-4	Color (moist)	<u> </u>	Color (moist)	%	Type <sup>1</sup>	<u>Loc<sup>2</sup></u>	Texture	Remarks	
	10YR 4/2	_ 100					Loamy sand		
4-20	10YR 7/2	100					Loamy sand		
<del></del>									
	oncentration, D=De					ains.		Pore Lining, M=Ma	
	Indicators: (Applic	cable to all L						roblematic Hydric	c Solis :
Histosol	(A1) pipedon (A2)		Polyvalue B				· —	A9) (LRR O) A10) (LRR S)	
	stic (A3)		Loamy Much					rtic (F18) <b>(outside</b>	MLRA 150A.B)
I <b>=</b>	n Sulfide (A4)		Loamy Gley	-		,		oodplain Soils (F1	
	d Layers (A5)		Depleted Ma		•		Anomalous I	Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR F		Redox Dark	`	,		(MLRA 15	•	
	ıcky Mineral (A7) <b>(L</b>		Depleted Da				T -	Material (TF2)	-10)
	esence (A8) (LRR luck (A9) (LRR P, T)	J)	Redox Depr	•	8)		T-1	v Dark Surface (TF iin in Remarks)	-12)
	d Below Dark Surfac	ce (A11)	Depleted Oc	•	(MLRA 1	51)	U Other (Expla	iiii iii iXeiiiaiks)	
	ark Surface (A12)	( )	☐ Iron-Mangar		•	•	T) <sup>3</sup> Indicators	of hydrophytic veg	etation and
Coast P	rairie Redox (A16) <b>(</b>	MLRA 150A)	Umbric Surf	ace (F13) <b>(</b>	LRR P, T	, U)	wetland h	ydrology must be	present,
	lucky Mineral (S1) <b>(</b>	LRR O, S)	Delta Ochric					sturbed or problem	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont FI	· · · · · · · · · · · · · · · · · · ·		•	19A) RA 149A, 153C, 153I	n)	
_	rface (S7) <b>(LRR P,</b> :	S, T, U)	Anomalous	Dright Loai	ny odna (i	20) (WILI	A 149A, 133C, 1331	2)	
	Layer (if observed)								
Type:									
Depth (in	ches):						Hydric Soil Prese	ent? Yes	No X
Remarks:									
H	ydric soil was	not pres	ent.						

Project/Site: San Jose Island City/C	ounty: Aransas County	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX	
Investigator(a): JI M BPH	n Taurahia Bangai N/A	
Landform (hillslope terrace etc.): Barrier island - gulf beach	relief (concave, convex, none). None	Slope (%). 2-3
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.84070	0 Long: -97.045482	Datum: NAD83
Landform (hillslope, terrace, etc.): Barrier island - gulf beach Subregion (LRR or MLRA): LRR T / MLRA 150B Soil Map Unit Name: Beaches	NWI classificat	tion: M2USP
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es X No (If no explain in Rei	marks )
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly disturb		
Are Vegetation N, Soil N, or Hydrology N naturally problema	atic? (If needed, explain any answers	
SUMMARY OF FINDINGS – Attach site map showing sam		,
Hydrophytic Vegetation Present? Yes No X		
Hydric Soil Present? Yes No X	Is the Sampled Area	Y
Hydrophytic Vegetation Present?         Yes         No         X           Hydric Soil Present?         Yes         No         X           Wetland Hydrology Present?         Yes         X         No	within a Wetland? Yes	No X
Remarks:		
Although wetland hydrology was present, the samp	oled area was determined to r	not be within a
wetland due to the absence of dominant hydrophyt	ic vegetation and hydric soil.	
LIVEROLOGY		
HYDROLOGY	Occupation to the state of	(
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicate  Surface Soil C	ors (minimum of two required)
Surface Water (A1)  Aquatic Fauna (B13)		etated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRF	<del>–</del>	` '
Saturation (A3)  Hydrogen Sulfide Odor (C	· —	
Water Marks (B1) Oxidized Rhizospheres a		ater Table (C2)
Sediment Deposits (B2)  Presence of Reduced Iron		ws (C8)
Drift Deposits (B3)	Tilled Soils (C6)	ble on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic P	osition (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark		
Inundation Visible on Aerial Imagery (B7)	☐ FAC-Neutral T	` '
Water-Stained Leaves (B9)	Sphagnum mo	ss (D8) <b>(LRR T, U)</b>
Field Observations:  Surface Water Present?  Yes No _X Depth (inches):		
Surface Water Present? Yes No Depth (inches):  Water Table Present? Yes X No Depth (inches):  5" from the surface water Present?	om surface	
Saturation Present? Yes X No Depth (inches): at s	surface Wetland Hydrology Present	? Yes X No
(includes capillary fringe)		? res <u>? No</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	vious inspections), if available:	
Remarks:		
Wetland hydrology was present.		

			Dominant Indicator	Dominance Test worksheet	t:	
Tree Stratum (Plot size:			Species? Status	Number of Dominant Species	S	
1				That Are OBL, FACW, or FA	C:	(A)
2				Total Number of Dominant		
3				Species Across All Strata:		(B)
4				Dercent of Deminent Species		
5				Percent of Dominant Species That Are OBL, FACW, or FA		(A/B)
6				·		. ( · )
7				Prevalence Index workshee		
8				Total % Cover of:		
			Total Cover	OBL species	x 1 =	_
50°	% of total cover:			FACW species	x 2 =	
Sapling/Shrub Stratum (Plot size:		20 /0 01		FAC species	x 3 =	
				FACU species	x 4 =	
1				UPL species	x 5 =	
2				Column Totals:		
3					,	_ ` '
4				Prevalence Index = B/	A =	
5				Hydrophytic Vegetation Inc	licators:	
6				1 - Rapid Test for Hydro	phytic Vegetation	
7				2 - Dominance Test is >	50%	
8				3 - Prevalence Index is ≤	≤3.0 <sup>1</sup>	
		=	= Total Cover	Problematic Hydrophytic		uin)
50%	% of total cover:	20% of	total cover:		(	,
Herb Stratum (Plot size:	)			<sup>1</sup> Indicators of hydric soil and	wetland hydrology	muet
1				be present, unless disturbed		illust
2.				Definitions of Four Vegetat	ion Strata:	
3						
				Tree – Woody plants, exclud		
4				more in diameter at breast he height.	agni (DBH), regard	1622 01
5						
6				Sapling/Shrub – Woody planthan 3 in. DBH and greater the		
7				than 5 m. DBH and greater ti	iaii 5.20 it (1 iii) tai	I <b>.</b>
8				Herb – All herbaceous (non-		ardless
9				of size, and woody plants les	s than 3.28 ft tall.	
10				Woody vine – All woody vine	es greater than 3.28	3 ft in
11				height.	-	
12						
		=	= Total Cover			
50%	% of total cover:	20% of	total cover:			
Woody Vine Stratum (Plot size:	)					
1						
2						
3.						
4.						
5.						
·			Total Cover	Hydrophytic Vegetation		
500	)/ of total accord			Present? Yes	No X	
	% of total cover:		total cover:			
Remarks: (If observed, list morpholo  Dominant hydrophytic ve	-	•	ent. No vegeta	ation was present.		

Sampling Point: UD44BPH\_SJI

SOIL Sampling Point: UD44BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	indicator	or confirm	n the absence of ir	ndicators.)	
Depth	Matrix			ox Feature		. 2			
(inches)	Color (moist)		Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	<u> </u>
0-20	10YR 6/2	100					Loamy sand		
									_
				_					
							<del></del>		
,									
1Typo: C=C	oncentration, D=De	olotion DM-D	oduced Matrix M		Sand Gr	oine	<sup>2</sup> l ocation: PL =	Pore Lining, M=Ma	triv
	Indicators: (Appli					allis.		Problematic Hydri	
		cable to all El				DDCTI		-	c dons .
Histosol	oipedon (A2)		Polyvalue B				· —	(A9) <b>(LRR O)</b> (A10) <b>(LRR S)</b>	
Black Hi			Loamy Much					ertic (F18) <b>(outsid</b> e	MI RA 150A R)
I <b>=</b>	en Sulfide (A4)		Loamy Gley	-		. 0,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma		(1 <del>2</del> )			Bright Loamy Soils	
	Bodies (A6) (LRR F	P. T. U)	Redox Dark		-6)		(MLRA 1		( = = )
	ıcky Mineral (A7) <b>(L</b>		Depleted Da	ark Surface	· (F7)			t Material (TF2)	
	esence (A8) (LRR I		Redox Depr				☐ Very Shalld	ow Dark Surface (TI	=12)
1 cm Μι	ıck (A9) <b>(LRR P, T)</b>		Marl (F10) (I	LRR U)			✓ Other (Exp.)	lain in Remarks)	
Deplete	d Below Dark Surfac	ce (A11)	Depleted Oc	chric (F11)	(MLRA 1	51)			
	ark Surface (A12)		☐ Iron-Mangar					s of hydrophytic veg	
	rairie Redox (A16) (		Umbric Surf			', U)		hydrology must be	·
	Mucky Mineral (S1) (	LRR O, S)	Delta Ochric					disturbed or problen	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont FI	-	, ,		•	2D)	
_	Matrix (S6) rface (S7) <b>(LRR P,</b> :	S T II)	Anomalous	Bright Loai	my Solis (	FZU) (WILK	RA 149A, 153C, 153	(טצ	
	Layer (if observed)						<u> </u>		
Type:	Layer (II observed)	•							
ı <u> </u>	ab a a \.		<del>_</del>				Usalvia Cail Dra	aant? Vaa	No X
Depth (in	cnes).						nyaric Soil Pres	sent? Yes	NO <u>/                                  </u>
Remarks:	ydric soil was	not pres	ent						
	yano oon wac	not proc	Oric.						

Project/Site: San Jose Island City/C	County: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: UD45BPH_SJ
Investigator(s): JLM, BPH	on Township Bango: N/A
Landform (hillslope, terrace, etc.): Barrier island - top of primary dune Local Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.84077	relief (concave, convex, pope). Convex Slope (%): 20
Subragion (LBB or MLBA), LRR T / MLRA 150B Lat. 27.84077	10 Lang97.045767 Detum: NAD83
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Committed Asses
Hydric Soil Present? Yes No X	Is the Sampled Area within a Wetland? Yes No X
Hydrophytic Vegetation Present?         Yes X         No           Hydric Soil Present?         Yes	within a Wetland: 1eS NO
Remarks:	
Although dominant hydrophytic vegetation was pre	•
within a wetland due to the absence of wetland hyd	drology and hydric soil.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRF	R U) Drainage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odor (C	
☐ Water Marks (B1) ☐ Oxidized Rhizospheres a	
Sediment Deposits (B2)  Presence of Reduced Iro	
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7)	Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)
Iron Deposits (B5)  Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present? Yes No X
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	l vious inspections), if available:
Remarks:	
Wetland hydrology was not present.	

'EGETATION (Four Strata) -	- Ose scientilic n	iames or pr	ants.		Sa	mpling Point: UD45E	3PH_S
			Dominant		Dominance Test worksheet	:	
Tree Stratum (Plot size: 1	•		Species?		Number of Dominant Species That Are OBL, FACW, or FAC		(A)
					Total Number of Dominant		
·					Species Across All Strata:	1	(B)
·					Demonstrat Demoissant Occasion		
					Percent of Dominant Species That Are OBL, FACW, or FAC		(A/B
)							
, 					Prevalence Index workshee		
h					Total % Cover of:	<u> </u>	
			= Total Cov	er er	OBL species		
50%	% of total cover:	20% of	total cover	:	FACW species		
apling/Shrub Stratum (Plot size: _	)				FAC species		
·					FACU species		
•					UPL species	x 5 =	_
					Column Totals:	(A)	_ (B)
•					Prevalence Index = B/A	<b>1</b> =	
·					Hydrophytic Vegetation Ind		
)					1 - Rapid Test for Hydrop		
,					2 - Dominance Test is >5		
s					3 - Prevalence Index is ≤		
			= Total Cov	·er	Problematic Hydrophytic		n)
50%	% of total cover:	20% of	total cover		r roblematic r lydrophytic	vegetation (Explain	''
Herb Stratum (Plot size: 30'x30'	)		Υ	FAC	<sup>1</sup> Indicators of hydric soil and was be present, unless disturbed		าust
					Definitions of Four Vegetati	•	
).					Deminions of Four Vegetati	on Strata.	
J					Tree - Woody plants, excludi		
					more in diameter at breast he height.	ignt (DBH), regardie	3SS 01
j							
i					Sapling/Shrub – Woody plar than 3 in. DBH and greater th		
' 3.							
· .					Herb – All herbaceous (non-volume of size, and woody plants less		dless
). 					or size, and woody plants less	3 (11a11 3,20 )( tall.	
0					Woody vine – All woody vine	s greater than 3.28	ft in
1					height.		
2		70					
500	y - <b>4</b> - <b>4</b> - <b>1</b> 35		= Total Cov				
	% of total cover: <u>35</u>	20% 01	total cover	·			
Voody Vine Stratum (Plot size:							
).							
3							
ł -							
5					Hydrophytic Vegetation		
500		· · · · · · · · · · · · · · · · · · ·	= Total Cov		Present? Yes X	No	
	% of total cover:		total cover	·			
Remarks: (If observed, list morphol	ogical adaptations be	elow).					
Remarks: (If observed, list morpholo Dominant hydrophytic ve	ogical adaptations be	elow).					

SOIL Sampling Point: UD45BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of ir	ndicators.)	
Depth	Matrix			ox Feature		. 2			
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	<u> </u>
0-20	10YR 6/2	100					Loamy sand		
1Typo: C=C	oncentration, D=De	olotion DM-D	oduced Matrix M	S-Mackad	Sand Gr	oine	<sup>2</sup> Location: DL =	Pore Lining, M=Ma	utriv
	Indicators: (Appli					airis.		Problematic Hydri	
		cable to all El				DDCTI		-	c cons .
Histosol	oipedon (A2)		Polyvalue B				· —	(A9) <b>(LRR O)</b> (A10) <b>(LRR S)</b>	
	stic (A3)		Loamy Much					ertic (F18) <b>(outsid</b>	- MI RΔ 150Δ R)
I <b>=</b>	en Sulfide (A4)		Loamy Gley	-		. 0,		Floodplain Soils (F1	
	d Layers (A5)		Depleted Ma		. 2)			Bright Loamy Soils	
	Bodies (A6) (LRR F	P. T. U)	Redox Dark		6)		(MLRA 1		s (. 20)
	ıcky Mineral (A7) <b>(L</b>		Depleted Da	`	,			t Material (TF2)	
	esence (A8) (LRR I		Redox Depr					ow Dark Surface (T	F12)
	ıck (A9) <b>(LRR P, T)</b>		Marl (F10) (I	LRR U)			Other (Exp	lain in Remarks)	·
Deplete	d Below Dark Surfac	ce (A11)	Depleted Oc	chric (F11)	(MLRA 1	51)			
	ark Surface (A12)		☐ Iron-Mangar					s of hydrophytic ve	
	rairie Redox (A16) <b>(</b>		Umbric Surfa			, U)		hydrology must be	·
	Mucky Mineral (S1) (	LRR O, S)	Delta Ochric					disturbed or probler	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont FI	-	, ,	•	•	)D)	
_	Matrix (S6)	C T II\	Anomalous	Bright Loai	my Soils (	F20) <b>(MLR</b>	RA 149A, 153C, 153	30)	
	rface (S7) <b>(LRR P,</b> : Layer (if observed)						1		
	Layer (II Observed)	•							
Type:	-1>		<del></del>				Unadaia Cail Dana	10 V	No X
	ches):						nyuric Soil Pres	sent? Yes	NO <u>/                                  </u>
Remarks:	ydric soil was	not pres	ent						
	yano oon wac	not proc	Oric.						

Applicant/Owner: Port of Corpus Christi Authority	Aransas County State: TX Sampling Date: 10/18/2021 Sampling Point: UD46BPH_SJI
Landform (hillslope, terrace, etc.): Barrier island - coastal prairie Local re Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.840801 Soil Map Unit Name: Beaches	Long: <u>-97.045903</u> Datum: <u>NAD83</u> NWI classification: <u>None</u>
Are climatic / hydrologic conditions on the site typical for this time of year? Yes Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturbed Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ naturally problematically problematically disturbed by the site of	ed? Are "Normal Circumstances" present? Yes X No
SUMMARY OF FINDINGS – Attach site map showing samp	oling point locations, transects, important features, etc.
Hydric Soil Present?  Wetland Hydrology Present?  Remarks:  Yes No X  Yes No X  No X  Yes No X  No X	Is the Sampled Area within a Wetland?  Yes No X
The sampled area was determined to not be within a hydrophytic vegetation, hydric soil, and wetland hyd	
HYDROLOGY	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  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)  Field Observations:  Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Aquatic Fauna (B13) Field Observations:	Moss Trim Lines (B16) Ing Living Roots (C3)  (C4)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)
Surface Water Present? Yes No X Depth (inches):  Water Table Present? Yes No X Depth (inches):  Saturation Present? Yes No X Depth (inches):  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous control of the control of	Wetland Hydrology Present? Yes No X
Remarks: Wetland hydrology was not present.	

	mes of pl	ants.		Sampling Point: UD46BPH_S
Free Observance (Diet sings		Dominant		Dominance Test worksheet:
ree Stratum (Plot size:)		Species?		Number of Dominant Species That Are OBL, FACW, or FAC:  (A)
				That Are OBL, FACW, OF FAC. (A)
-				Total Number of Dominant
-				Species Across All Strata: 1 (B)
				Percent of Dominant Species
-				That Are OBL, FACW, or FAC: 0 (A/B
-				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
				OBL species <u>0</u> x 1 = <u>0</u>
50% of total cover:		= Total Cov		FACW species $0 \times 2 = 0$
	20% 01	total cover	·	FAC species 10 x 3 = 30
apling/Shrub Stratum (Plot size:)				FACU species <u>83</u> x 4 = <u>332</u>
				UPL species 2 x 5 = 10
				Column Totals: 95 (A) 371 (B)
-				
				Prevalence Index = B/A = 3.9
•				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
				2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 <sup>1</sup>
500/ 51 / 1		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover		
l <u>erb Stratum</u> (Plot size: 30'x30' ) Schizachyrium scoparium	80	Υ	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Panicum amarum	10	N	FAC	be present, unless disturbed or problematic.
	2	N	UPL	Definitions of Four Vegetation Strata:
Physalis cinerascens Commolina create	2			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) o
Commelina erecta  Baptisia alba		$\frac{N}{N}$	FACU FACU	more in diameter at breast height (DBH), regardless of height.
·				neight.
•				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
•				Herb – All herbaceous (non-woody) plants, regardless
				of size, and woody plants less than 3.28 ft tall.
0				Woody vine – All woody vines greater than 3.28 ft in
1				height.
2	05			
17.5		= Total Cov		
50% of total cover: 47.5	20% of	total cover	19	
Voody Vine Stratum (Plot size:)				
·				
				Hydrophytic
		= Total Cov		Vegetation Present? Yes No X
i.		_		Present? Yes No ^
5550% of total cover:		total cover		Present? Yes No ^

SOIL Sampling Point: UD46BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of in	dicators.)	
Depth	<u>Matrix</u>			ox Feature			_		
(inches)	Color (moist)		Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	<u> </u>
0-20	10YR 7/2	100					Loamy sand		
	-								
1Typo: C=C	oncentration, D=De <sub>l</sub>	olotion DM-D	oduced Matrix M	S-Mackad	Sand Gr	oine	<sup>2</sup> Location: DI =	Pore Lining, M=Ma	utriv
	Indicators: (Applic					airio.		Problematic Hydri	
Histosol		Jabio 10 ali 2.	Polyvalue B			PPSTI		-	
_	oipedon (A2)		Thin Dark S				· —	(A10) (LRR S)	
Black Hi			Loamy Much					ertic (F18) <b>(outsid</b>	e MLRA 150A.B)
I <b>=</b>	en Sulfide (A4)		Loamy Gley	-		. •,		loodplain Soils (F1	
	d Layers (A5)		Depleted Ma		. –,			Bright Loamy Soils	
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		<sup>-</sup> 6)		(MLRA 1		(- ( /
	ıcky Mineral (A7) <b>(L</b>		Depleted Da	ırk Surface	(F7)		Red Parent	Material (TF2)	
Muck Pr	esence (A8) (LRR I	J)	Redox Depr	essions (F	8)		<u></u> Very Shallo	w Dark Surface (T	F12)
<u>Π</u> 1 cm Μι	ıck (A9) <b>(LRR P, T)</b>		Marl (F10) (I	LRR U)			U Other (Expl	ain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Oc		•		2		
	ark Surface (A12)		☐ Iron-Mangar					s of hydrophytic ve	
	rairie Redox (A16) (		Umbric Surf			, U)		hydrology must be	
	Mucky Mineral (S1) <b>(</b>	LRR O, S)	Delta Ochric			OA 450D)		listurbed or probler	natic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) Matrix (S6)		Piedmont FI	-	, ,	•	19A) RA 149A, 153C, 153	D)	
_	rface (S7) <b>(LRR P,</b> :	S T II)	Anomalous	Brigiil Loai	ily Solis (	F20) (WILK	A 149A, 155C, 155	יטי	
	Layer (if observed)								
Type:		•							
ı <u>—</u>	ches):						Hydric Soil Pres	sent? Yes	No X
	Cites)						Tiyunc 30ii i res	sent: res	_ 110
Remarks:	ydric soil was	not pres	ent						
	yano oon waa	, not proc	OTT.						

Project/Site: San Jose Island City/C	county: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: WD01BPH_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - depression Local	
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.90019	
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly distur	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present?         Yes X         No           Wetland Hydrology Present?         Yes X         No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	within a wetland? Tes 1. NO
Remarks:	
The sampled area was determined to be within a w	•
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HADBOLOCA	
HYDROLOGY  Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRI	
Saturation (A3) Hydrogen Sulfide Odor (C	
☐ Water Marks (B1) ☐ Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iro	n (C4) Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)  Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes X No Depth (inches): 0.5	j
Water Table Present? Yes X No Depth (inches): at s	
Saturation Present? Yes X No Depth (inches): at s	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	
Welland Hydrology was present.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Descent of Descinant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Co		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1				FACU species x 4 =
				UPL species x 5 =
2				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Co		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30'x30' )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Spartina patens	50	Υ	FACW	be present, unless disturbed or problematic.
2. Fimbristylis castenea	20	Υ	OBL	Definitions of Four Vegetation Strata:
3. Andropogon glomeratus	15	N	FACW	Tree Meady plants and discovered 2 in (7.6 cm) or
4. Conoclinium bentonicifolium	10	N	FACW	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Iva annua	5	N	FAC	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
				, ,
8				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9			-	or size, and woody plants loss than o.zo it tall.
10		-		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
11				height.
12	100			
50		= Total Co		
	20% of	total cove	: 20	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co	ver	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes X No
Remarks: (If observed, list morphological adaptations below	ow).			
Dominant hydrophytic vegetation was p	•			
Dominant hydrophytic vegetation was p	neseni.			

Sampling Point: WD01BPH\_SJI

SOIL Sampling Point: WD01BPH\_SJI

Profile Desc	cription: (Describe t	o the depti	n needed to docur	ment the	indicator	or confirn	n the absence of inc	licators.)	
Depth (inches)	Matrix Color (moist)	<del></del> -	Redo Color (moist)	x Feature %	s Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-6	10YR 5/2		5YR 4/6	20	C	LUC	Sandy clay	Remarks	<u>'</u>
	Organic matter	20	01111111		- —				
6-18	10YR 5/1	90			-		Sandy clay		
0-10	Organic matter	10					Gariay day		
	Organic matter	10		_					
<del> </del>					-				
	oncentration, D=Depl					ains.		ore Lining, M=Ma	
Hydric Soil Histosol	Indicators: (Applica	able to all L	RRS, uniess otne. Polyvalue Be			DDCTI		oblematic Hydric	c Solis :
	pipedon (A2)		Thin Dark Su					410) <b>(LRR S)</b>	
<b> </b>	istic (A3)		Loamy Muck	•				rtic (F18) <b>(outside</b>	MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F1	
_	d Layers (A5)		Depleted Ma		-0)			Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR P, ucky Mineral (A7) (LR		Redox Dark Depleted Da	•	,		(MLRA 15	<b>зв)</b> Material (TF2)	
_	resence (A8) (LRR U)		Redox Depre		. ,			/ Dark Surface (TF	<del>-</del> 12)
	uck (A9) <b>(LRR P, T)</b>		Marl (F10) <b>(L</b>		,			in in Remarks) `	,
I = 1	d Below Dark Surface	e (A11)	Depleted Oc		•	•	3		
=	ark Surface (A12) rairie Redox (A16) <b>(N</b>	II PA 150A)	Iron-Mangan Umbric Surfa			•	•	of hydrophytic veg ydrology must be	
_	лаше (Nedox (A16) <b>(L</b> Лиску Mineral (S1) <b>(L</b>		Delta Ochric			, 0)		sturbed or problem	
_	Gleyed Matrix (S4)	, ,	Reduced Ve			60A, 150B)		•	
_	Redox (S5)		Piedmont Flo						
	l Matrix (S6) Irface (S7) <b>(LRR P, S</b>	T 11\		Bright Loa	my Soils (	F20) <b>(MLR</b>	RA 149A, 153C, 153E	<b>)</b> )	
	Layer (if observed):	, 1, 0)							
Type:	, , ,								
Depth (in	ches):		<u> </u>				Hydric Soil Prese	ent? Yes X	No
Remarks:							<u> </u>		
H	lydric soil was	present							

Project/Site: San Jose Island	<sub>City/County:</sub> Aransas C	ounty	Sampling Date:	10/19/2021
Applicant/Owner: Port of Corpus Christi Authority	, ,	State: TX	Sampling Point:	WD01KNT_SJI
Investigator(s): CSK, KNT  Landform (hillslope, terrace, etc.): Barrier island - swale	Local relief (concave, conve	ex none). Conca	/e <sub>Slot</sub>	<sub>ne (%)</sub> . 0-5
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.92	27935 Long	-96.988446	Olo,	NAD83
Soil Map Unit Name: Psamments, rarely flooded	Long.	· NWI classific	Sation: None	
Are climatic / hydrologic conditions on the site typical for this time of year				
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly				, No
Are Vegetation N, Soil N, or Hydrology N naturally pro	disturbed? Are Norm			NO
		d, explain any answe	,	
SUMMARY OF FINDINGS – Attach site map showing	sampling point locat	tions, transects	, important fo	eatures, etc.
Hydrophytic Vegetation Present?  Yes X  No	Is the Sampled Area	а		
Hydric Soil Present? Yes X No	within a Wetland?		No	
Wetland Hydrology Present? Yes X No				
Remarks:				
The sampled area was determined to be within		the presence	of dominant	t
hydrophytic vegetation, hydric soil, and wetland	d hydrology.			
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of	f two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	•	<u></u>
Surface Water (A1)  Aquatic Fauna (B13)	3)		getated Concave	Surface (B8)
High Water Table (A2)  Marl Deposits (B15)	•	Drainage Pa	=	(20)
Saturation (A3) Hydrogen Sulfide O	• •	Moss Trim L		
	eres along Living Roots (C3)	_	Water Table (C2)	)
Sediment Deposits (B2)  Presence of Reduce		Crayfish Bur		
	ion in Tilled Soils (C6)		isible on Aerial <b>I</b> m	nagery (C9)
Algal Mat or Crust (B4)	(C7)	✓ Geomorphic	Position (D2)	
☐ Iron Deposits (B5) ☐ Other (Explain in Re	emarks)	Shallow Aqu	itard (D3)	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	Test (D5)	
☐ Water-Stained Leaves (B9)		Sphagnum n	noss (D8) <b>(LRR T</b>	Г, U)
Field Observations:				
	:			
Water Table Present? Yes No X Depth (inches)			V	
	: Wetland	d Hydrology Preser	nt? Yes X	No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photo	l s, previous inspections), if a	 available:		
Remarks:				
Wetland hydrology was present.				

Cover	Dominant Species?	Status	Dominance Test worksheet:  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:  100  (A/B)		
			That Are OBL, FACW, or FAC: 2 (A)  Total Number of Dominant Species Across All Strata: 2 (B)  Percent of Dominant Species		
			Species Across All Strata: 2 (B)  Percent of Dominant Species		
			Species Across All Strata: 2 (B)  Percent of Dominant Species		
			// // // // // // // // // // // // //		
=					
<u> </u>			Prevalence Index worksheet:		
=			Total % Cover of: Multiply by:		
0% of	= Total Cov	er	OBL species x 1 =		
	total cover:		FACW species x 2 =		
			FAC species x 3 =		
			FACU species x 4 =		
			UPL species x 5 =		
			Column Totals: (A) (B)		
			Describerate la 1000		
			Prevalence Index = B/A =		
			Hydrophytic Vegetation Indicators:		
			1 - Rapid Test for Hydrophytic Vegetation		
			X 2 - Dominance Test is >50%		
			3 - Prevalence Index is ≤3.0 <sup>1</sup>		
			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
U /6 UI	iolai covei.				
	Υ	FACW	Indicators of hydric soil and wetland hydrology must		
			be present, unless disturbed or problematic.		
			Definitions of Four Vegetation Strata:		
			Tree – Woody plants, excluding vines, 3 in. (7.6 cm) more in diameter at breast height (DBH), regardless height.		
			Sapling/Shrub – Woody plants, excluding vines, less		
			than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
			Herb – All herbaceous (non-woody) plants, regardless		
			of size, and woody plants less than 3.28 ft tall.		
			Woody vine – All woody vines greater than 3.28 ft in		
			height.		
0% of	total cover:	9.4			
			Hydrophytic		
=	= Total Cov	er	Vegetation		
0% of	total cover:		Present? Yes X No		
			<u>.</u>		
	0% of	= Total Cover:  Y Y N N N  = Total Cover:  O''s of total cover:	= Total Cover  Y FACW Y OBL N FAC N FAC N FAC N FAC N FAC		

SOIL Sampling Point: WD01KNT\_SJI

Profile Desc	ription: (Describe	to the depti	n needed to docur	ment the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix	<u></u> %	Redo	Loc <sup>2</sup>	Taytura		Damarka			
(inches) 0-20	Color (moist) 10YR 5/2		Color (moist) 5YR 4/6	- <u>%</u>	Type <sup>1</sup>	PL/M	Texture loamy sand	3 mm 0	Remarks of algal ma	t present
0-20	1011372	_ 33	311\ 4/0			F L/IVI	loanly sand	3 111111 0	n aiyai iila	i present
<del></del>		<del></del> -								
	oncentration, D=De					ains.			ining, M=Matri	
Hydric Soil	Indicators: (Applie	cable to all L	RRs, unless other	rwise note	ed.)		Indicators	for Proble	matic Hydric	Soils³:
Histosol			Polyvalue Be					/luck (A9) <b>(L</b>	•	
<b> </b>	oipedon (A2)		Thin Dark Su					Лuck (A10) <b>(</b>		
_	stic (A3)		Loamy Muck	-		R O)		•	, ,	MLRA 150A,B)
	en Sulfide (A4) d Layers (A5)		Loamy Gleye	,	F2)			•	ain Soils (F19) Loamy Soils (	(LRR P, S, T)
	Bodies (A6) <b>(LRR F</b>	P. T. U)	Redox Dark		·6)			RA 153B)	Loanly Sons (	1 20)
	ıcky Mineral (A7) <b>(L</b>		Depleted Da	`	,			arent Materi	ial (TF2)	
	esence (A8) (LRR I		Redox Depre						Surface (TF1	2)
	ıck (A9) <b>(LRR P, T)</b>		Marl (F10) <b>(L</b>	RR U)			Other	(Explain in F	Remarks)	
I = 1	d Below Dark Surfac	ce (A11)	Depleted Oc		•		2			
=	ark Surface (A12)		∐ Iron-Mangan					-	drophytic vege	
	rairie Redox (A16) <b>(</b> lucky Mineral (S1) <b>(</b>		_			, U)		-	ogy must be pi d or problema	
	Gleyed Matrix (S4)	LKK 0, 3)	Delta Ochric Reduced Ve			50A 150R)		ess distuibe	d of problema	uc.
	Redox (S5)		Piedmont Flo							
	Matrix (S6)						A 149A, 153C	, 153D)		
Dark Su	rface (S7) <b>(LRR P,</b>	S, T, U)		_						
Restrictive	Layer (if observed)	):								
Type:									V	
Depth (in	ches):						Hydric Soil	Present?	Yes X	No
Remarks:	vdrie eeil wee	nrocont	,							
	ydric soil was	present	•							

Project/Site: San Jose Island Cit	<sub>y/County:</sub> Aransas County	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX	X Sampling Point: WD02BPH_SJI
Investigator(s): BPH Set Landform (hillslope, terrace, etc.): Barrier island - depression Love	cal relief (concave, convex, none);	Concave Slope (%): 2-3
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.8960	619 Long: -97.013	978 Datum: NAD83
Soil Map Unit Name: Beaches	NWI	I classification: None
Are climatic / hydrologic conditions on the site typical for this time of year?		
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly dis		
Are Vegetation $\overline{N}$ , Soil $\overline{N}$ , or Hydrology $\overline{N}$ naturally proble	ematic? (If needed, explain ar	ny answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa		,
	<u> </u>	
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area	V
Wetland Hydrology Present? Yes X No	within a Wetland?	'es X No
Remarks:		
The sampled area was determined to be within a	wetland due to the pres	ence of dominant
hydrophytic vegetation, hydric soil, and wetland l	•	crice of dominant
Tryaropriya vogetation, rryario son, and wetana i	Tydrology.	
HYDROLOGY		
Wetland Hydrology Indicators:	Seconda	ary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	<u> </u>	face Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Spar	rsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (L	<b>_RR U)</b> Drai	inage Patterns (B10)
Saturation (A3) Hydrogen Sulfide Odo	r (C1)	ss Trim Lines (B16)
☐ Water Marks (B1) ☐ Oxidized Rhizosphere	s along Living Roots (C3) 🛚 🔲 Dry-	-Season Water Table (C2)
Sediment Deposits (B2) Presence of Reduced	Iron (C4)	yfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction	ı in Tilled Soils (C6) 🔲 Satı	uration Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	7) <u>Ľ</u> Geo	omorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Rem	arks) <u> </u>	llow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	<b>=</b>	C-Neutral Test (D5)
☐ Water-Stained Leaves (B9)	<u> </u>	agnum moss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No X Depth (inches): _	<del></del>	
Water Table Present? Yes X No Depth (inches): 4		V
Saturation Present? Yes X No Depth (inches): 1	Wetland Hydrology	y Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos,	l previous inspections), if available:	
Remarks:		
Wetland hydrology was present.		
γ του γ του θγ του του μ		

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.				(VB)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
··-		= Total Co		OBL species x 1 =
EO9/ of total covers				FACW species x 2 =
50% of total cover:	20% 0	i lolai covei		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2	<del></del>			Column Totals: (A) (B)
3				Column Totals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Co	ver	
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30'x30' )	2070 0	total cover		1
1. Spartina patens	30	Υ	FACW	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Distichlis spicata	25	<u>'</u>	OBL	
		<u>'</u>		Definitions of Four Vegetation Strata:
3. Iva frutescens	20		FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Ambrosia psilostachya	_ 10	N	FAC	more in diameter at breast height (DBH), regardless of
5. Fimbristylis castanea	10	<u>N</u>	OBL	height.
6. Hydrocotyle bonariensis	3	N	FACW	Sapling/Shrub – Woody plants, excluding vines, less
7. Muhlenbergia capallaris	2	N	FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
			•	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
				height.
12	100			
50% 54.44 50		= Total Co		
50% of total cover: 50	20% of	total cover	: 20	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co		Vegetation
50% of total cover:				Present? Yes X No
Remarks: (If observed, list morphological adaptations bel			<u> </u>	
	•			
Dominant hydrophytic vegetation was p	present.			

Sampling Point: WD02BPH\_SJI

SOIL Sampling Point: WD02BPH\_SJI

Profile Desc	cription: (Describe	to the depth				or confirm	n the absence of in	dicators.)
Depth (inches)	Matrix Color (moist)	<u></u> %	Redox Features Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>			Loc <sup>2</sup>	Texture	Remarks
0-6	10YR 5/2		10YR 5/6	5	C	M	Loamy sand	Remarks
6-18	5Y 5/1	- <del>30</del> -	101110,0	- —				
0-10	31 3/1			-	-			-
<u> </u>				_	<del></del>	<del></del>		
					-	<u> </u>		
				_				
<sup>1</sup> Type: C=C	oncentration, D=De	oletion. RM=F	Reduced Matrix, M	S=Masked	d Sand G	rains.	<sup>2</sup> Location: PL=F	Pore Lining, M=Matrix.
	Indicators: (Applie							Problematic Hydric Soils <sup>3</sup> :
☐ Histosol	(A1)		Polyvalue Be	elow Surfa	ice (S8) <b>(</b>	LRR S, T, I	<b>υ)</b> 1 cm Muck (	(A9) <b>(LRR O)</b>
	oipedon (A2)		Thin Dark Su	-				(A10) <b>(LRR S)</b>
_	stic (A3)		Loamy Muck	-		R O)		ertic (F18) <b>(outside MLRA 150A,B)</b>
_	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Ma		(F2)			loodplain Soils (F19) <b>(LRR P, S, T)</b> Bright Loamy Soils (F20)
	Bodies (A6) <b>(LRR F</b>	P. T. U)	Redox Dark		<del>-</del> 6)		(MLRA 15	
	ıcky Mineral (A7) <b>(L</b>		Depleted Da	`	,			Material (TF2)
	esence (A8) (LRR I	J)	Redox Depre	essions (F	8)			w Dark Surface (TF12)
	ick (A9) (LRR P, T)		☐ Marl (F10) <b>(L</b>				U Other (Expla	ain in Remarks)
I = 1	d Below Dark Surfac ark Surface (A12)	ce (A11)	☐ Depleted Oc☐ Iron-Mangan		•	•	T) <sup>3</sup> Indicators	of hydrophytic vegetation and
=	rairie Redox (A16) <b>(</b>	MLRA 150A)	_					hydrology must be present,
	/lucky Mineral (S1)		Delta Ochric					sturbed or problematic.
	Gleyed Matrix (S4)		Reduced Ve					
	Redox (S5)		Piedmont Flo					-,
	l Matrix (S6) rface (S7) <b>(LRR P,</b> :	S T II)	<u> </u>	Bright Loa	my Soils	(F20) <b>(MLF</b>	RA 149A, 153C, 153	D)
	Layer (if observed)							
Type:	, ,	,						
Depth (in	ches):		<u> </u>				Hydric Soil Pres	ent? Yes X No
Remarks:								
H	ydric soil was	s present						

Applicant/Owner: Port of Corpus Christi Authority	2 Long: -96.992321 Datum: NAD83					
Are climatic / hydrologic conditions on the site typical for this time of year? Y Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturbly Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ naturally problems	bed? Are "Normal Circumstances" present? Yes X No					
SUMMARY OF FINDINGS – Attach site map showing sam	ppling point locations, transects, important features, etc.					
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No Wetland Hydrology Present? Yes X No Remarks:  The sampled area was determined to be within a whydrophytic vegetation, hydric soil, and wetland hy	·					
HYDROLOGY						
Wetland Hydrology Indicators:       Secondary Indicators (minimum of two required)         Primary Indicators (minimum of one is required; check all that apply)       □ Surface Soil Cracks (B6)         □ Surface Water (A1)       □ Aquatic Fauna (B13)       □ Sparsely Vegetated Concave Surface (B8)         □ High Water Table (A2)       □ Marl Deposits (B15) (LRR U)       □ Drainage Patterns (B10)         □ Saturation (A3)       □ Hydrogen Sulfide Odor (C1)       □ Moss Trim Lines (B16)         □ Water Marks (B1)       □ Oxidized Rhizospheres along Living Roots (C3)       □ Dry-Season Water Table (C2)         □ Sediment Deposits (B2)       □ Presence of Reduced Iron (C4)       □ Crayfish Burrows (C8)         □ Drift Deposits (B3)       □ Recent Iron Reduction in Tilled Soils (C6)       □ Saturation Visible on Aerial Imagery (C9)         □ Algal Mat or Crust (B4)       □ Thin Muck Surface (C7)       □ Geomorphic Position (D2)         □ Iron Deposits (B5)       □ Other (Explain in Remarks)       □ Shallow Aquitard (D3)         □ Inundation Visible on Aerial Imagery (B7)       □ FAC-Neutral Test (D5)         □ Water-Stained Leaves (B9)       □ Sphagnum moss (D8) (LRR T, U)						
Field Observations:  Surface Water Present?  Water Table Present?  Yes X No Depth (inches):  Saturation Present?  Yes X No Depth (inches):  at 0  (includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	Wetland Hydrology Present? Yes X No					
Remarks: Wetland hydrology was present.						

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Descent of Descinant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30' radius )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Spartina patens	60	Υ	FACW	be present, unless disturbed or problematic.
2 Fimbristylis castanea	20	N	OBL	Definitions of Four Vegetation Strata:
3 Paspalum monostachyum	20	N	FACW	
4. Rhynchospora colorata	5	N	FACW	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
" <del></del>				height.
5				
6				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
7				than 5 m. bbr and greater than 5.20 h (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov		
50% of total cover: <u>52.5</u>	20% of	total cover	21	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4.				
5.				Underskutie
<u> </u>		= Total Cov	or	Hydrophytic Vegetation
50% of total cover:				Present? Yes X No
		total cover	·	
Remarks: (If observed, list morphological adaptations belo	•			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: WD02KNT\_SJI

SOIL Sampling Point: WD02KNT\_SJI

(inches)	Matrix			ox Feature			n the absence of i		
	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-20	10YR 6/2	93	10YR 5/8	7	С	M	Loamy sand		
					. ,				
-				_					
	-	<del></del>							
Гуре: С=С	oncentration, D=De	pletion, RM=	Reduced Matrix, M	S=Masked	Sand G	ains.	<sup>2</sup> Location: PL	=Pore Lining, M=Mat	rix.
lydric Soil	Indicators: (Appli	cable to all	LRRs, unless othe	rwise not	ed.)		Indicators for	Problematic Hydric	Soils <sup>3</sup> :
Histosol			Polyvalue B				· —	(A9) <b>(LRR O)</b>	
	pipedon (A2)		Thin Dark S		-			(A10) <b>(LRR S)</b>	
=	istic (A3)		Loamy Muck	•	. , .	R O)		/ertic (F18) <b>(outside</b> Floodplain Soils (F19	
	en Sulfide (A4) d Layers (A5)		Loamy Gley Depleted Ma		<sub>.</sub> Γ2)			s Bright Loamy Soils	
	: Bodies (A6) <b>(LRR</b> I	P, T, U)	Redox Dark	, ,	<del>-</del> 6)		(MLRA		(1 20)
_	ucky Mineral (A7) <b>(L</b>		Depleted Da	ark Surface	(F7)			nt Material (TF2)	
	resence (A8) (LRR		Redox Depr	•	8)			ow Dark Surface (TF	12)
_	uck (A9) <b>(LRR P, T)</b>		☐ Marl (F10) <b>(</b> I	-		<b>-</b> 43	U Other (Exp	olain in Remarks)	
_	d Below Dark Surfa ark Surface (A12)	ce (A11)	☐ Depleted Od ☐ Iron-Mangar		•	•	T) <sup>3</sup> Indicator	rs of hydrophytic veg	otation and
=	rairie Redox (A16)	MLRA 150	=		, ,			d hydrology must be	
	Mucky Mineral (S1)		Delta Ochric			, -,		disturbed or problem	
_	Gleyed Matrix (S4)	. ,	Reduced Ve			0A, 150B		·	
=	Redox (S5)		Piedmont FI						
_	d Matrix (S6)		<u> </u>	Bright Loa	my Soils	F20) <b>(MLF</b>	RA 149A, 153C, 15	3D)	
	urface (S7) (LRR P, Layer (if observed								
Type:	Layer (II observed	).							
	ches):						Hydric Soil Bro	esent? Yes X	No
Remarks:	Ciles).		<del></del>				Hydric 30ii Fre	:sent: 1es	
veillains.		s presen	t.						
Н	lydric soil was								
Н	lydric soil wa	. р. ссс.							
Н	lydric soil was	, p. 555							
H	lydric soil wa:								
H	lydric soil wa:								
H	lydric soil wa:	<b>,</b>							
H	lydric soil wa:	<b>F</b> . 3 3 3							
H	lydric soil wa:	<b>F</b> . 3 3 3 .							
H	lydric soil wa:	<b>F</b>							
H	lydric soil wa:	<b>F</b>							
H	lydric soil wa	<b>F</b>							
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H	lydric soil wa								
H	lydric soil wa								

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/20/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: WD03BPH_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - depression Local	
Subragian (LRR or MLRA): LRR T / MLRA 150B Lat. 27.88826	5 Langui -97.022249 Solpe (1/8) NAD83
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.88826 Soil Map Unit Name: Beaches	baldini. 1. 1. 2. 5
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing same	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes X No	Is the Sampled Area
Hydric Soil Present?         Yes X         No	within a Wetland? Yes X No
Remarks:	
The sampled area was determined to be within a w	etland due to the presence of dominant
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRF	
Saturation (A3)  Hydrogen Sulfide Odor (C	
Water Marks (B1)  Coding at Deposits (B2)  Deposits of Podesical Inc.	
Sediment Deposits (B2)  Presence of Reduced Iron  Presence of Reduced Iron  Recent Iron Reduction in	
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in ☐ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7)	Tilled Soils (C6)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)
Iron Deposits (B5)  Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	<u> </u>
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches): 9	
Saturation Present? Yes X No Depth (inches): 6	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Describe recorded Data (stream gauge, monitoring well, acrial priotos, pre	vious inspections), ii available.
Remarks:	
Wetland hydrology was present.	
Wolland Trydrology Was prosont.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Dansont of Dansin and Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				That is a BE, The W, of the   (VB)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Co		OBL species x 1 =
F00/ - f1-1-1				FACW species x 2 =
50% of total cover:	20% 01	total cover	·	FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				Column rotals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				
		= Total Co		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30'X30' )	20 % 01	iolai covei		
1. Sporobolus virginicus	45	Υ	FACW	Indicators of hydric soil and wetland hydrology must
	30	Y	OBL	be present, unless disturbed or problematic.
2. Fimbristylis castanea				Definitions of Four Vegetation Strata:
3. Borrichia frutescens	10	N	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Sueda linearis	5	N	OBL	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Harb All berbasseus (non woody) plants, regardless
9.				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10.				
				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
11		-		height.
12	90			
45		= Total Co		
50% of total cover: 45	20% of	total cover	: 10	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co	ver	Vegetation
50% of total cover:				Present? Yes X No
Remarks: (If observed, list morphological adaptations believed)				1
	•			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: WD03BPH\_SJI

SOIL Sampling Point: WD03BPH\_SJI

Profile Des	cription: (Describe	to the dep	th needed to docu	ment the	indicator	or confir	m the absence of ind	icators.)	
Depth	Matrix			- Texture	Domark				
(inches) 0-8	Color (moist) 10YR 6/2	80	Color (moist) 10YR 5/8	<u>%</u> 10	<u>Type<sup>1</sup></u>	M	Loamy sand	Remarks	<u> </u>
0-8	Gley 1 2.5N	10	10110 3/0	10		IVI	Loamy sand		
			40\/D_F/0				- <u> </u>		
8-18	10YR 6/2	90	10YR 5/8	10	<u>C</u>	<u>M</u>	Loamy sand		
	-				_		<u> </u>		
<sup>1</sup> Type: C=C	oncentration, D=Dep	letion, RM	=Reduced Matrix, M	S=Maske	ed Sand G	rains.	<sup>2</sup> Location: PL=P	ore Lining, M=Ma	atrix.
	Indicators: (Applic						Indicators for Pr		
Histoso			Polyvalue Be						
ı <b>=</b>	pipedon (A2)		Thin Dark Su	-			2 cm Muck (/		- MI DA 450A D\
_	listic (A3) en Sulfide (A4)		Loamy Muck	-		R O)			e MLRA 150A,B) 9) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		(1 2)			right Loamy Soil	
	Bodies (A6) (LRR P	, T, U)	Redox Dark		(F6)		(MLRA 15:	-	,
	ucky Mineral (A7) <b>(LF</b>		_		` ,			/laterial (TF2)	
	resence (A8) (LRR U	))	Redox Depre	•	F8)			Dark Surface (T	F12)
	uck (A9) <b>(LRR P, T)</b> d Below Dark Surfac	e (A11)	☐ Marl (F10) <b>(I</b> ☐ Depleted Oc		) (MI RA 1	51)	Utilei (Expla	n in Remarks)	
1 <b>=</b> 1	ark Surface (A12)	- ( )	☐ Iron-Mangar	-			P, T) <sup>3</sup> Indicators	of hydrophytic ve	getation and
	Prairie Redox (A16) <b>(l</b>		· <b>—</b>					ydrology must be	
	Mucky Mineral (S1) <b>(I</b>	_RR O, S)	Delta Ochric					turbed or probler	natic.
_	Gleyed Matrix (S4) Redox (S5)		Reduced Ve						
	d Matrix (S6)						RA 149A, 153C, 153D	)	
Dark Su	urface (S7) (LRR P, S		<u> </u>		•	. , ,		,	
Restrictive	Layer (if observed):								
Type:								Y	
	iches):						Hydric Soil Prese	nt? Yes <u>^</u>	No
Remarks:	lydric soil was	preser	nt						
•	ry arro con mac	ргосол							
1									

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: WD03KNT_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - swale Local	relief (concave convex none). Concave Slope (%). 0-1
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat. 27.91932	1 Long: -96.996233 Datum: NAD83
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.91932 Soil Map Unit Name: Psamments, rarely flooded	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? You	
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly disturb	
Are Vegetation N, Soil N, or Hydrology N naturally problema	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?         Yes X         No           Wetland Hydrology Present?         Yes X         No	within a Wetland? Yes X No
Remarks:	
The sampled area was determined to be within a w	etland due to the presence of dominant
hydrophytic vegetation, hydric soil, and wetland hydrophytic vegetation, hydric soil, and wetland hydrophytic soil.	•
l l l l l l l l l l l l l l l l l l l	u. 0.09y.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2) Saturation (A3)  High Water Table (A2) Saturation (A3)  Hydrogen Sulfide Odor (C	
Water Marks (B1)  Saturation (A3)  Water Marks (B1)  Oxidized Rhizospheres al	
Sediment Deposits (B2)  Presence of Reduced Iron	
Drift Deposits (B3) Recent Iron Reduction in	
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)  Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches): at 7	
Saturation Present? Yes X No Depth (inches): at 0	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	
Describe Recorded Data (Stream gauge, monitoring well, aerial photos, pre-	vious inspections), ii avaliable.
Remarks:	
Wetland hydrology was present.	
Trought hydrology was present.	

		Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Descent of Descinant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Cov	er	OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	2070 01	total oover.		FAC species x 3 =
				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov	er	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover:		
Herb Stratum (Plot size: 30' radius )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Fimbristylis castanea	30	Υ	OBL	be present, unless disturbed or problematic.
2. Spartina patens	30	Y	FACW	Definitions of Four Vegetation Strata:
3. Paspalum monostachyum	20	Υ	FACW	
4. Phyla nodiflora	5	N	FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Rhynchospora colorata	5	N	FACW	height.
6. Verbena bonariensis	5	N	FAC	
7. Andropogon glomeratus	2	N	FACW	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 Setaria parviflora	2	<u>N</u>	FACW	than 6 m. BBrrana groater than 6.26 m (1 m) tall.
v			171011	Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov		
50% of total cover: 49.5	20% of	total cover:	19.8	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:				Present? Yes X No
Remarks: (If observed, list morphological adaptations belo		total cover.		
	•			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: WD03KNT\_SJI

SOIL Sampling Point: WD03KNT\_SJI

		to the dep				or confir	m the absence of in	dicators.)	
Depth (inches)	Matrix Color (moist)	%	Color (moist)	x Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	- Texture	Remarks	
0-3	10YR 3/2	100	<u>Color (moist)</u>		_ турс_		Loamy sand	Remains	
3-20	10YR 5/2	90	10YR 5/8	10	C	M	Loamy sand		
3-20	10111 3/2	_ =	10110 3/0	_ 10		- 171	Loanly Sand		
							<del></del>		
							<del></del>		
						-			
1Type: C=C	oncontration D=Da	olotion DM	=Reduced Matrix, M	C-Maaka	d Sand C	roine	<sup>2</sup> l continu	Pore Lining, M=Matrix.	
			LRRs, unless othe			iaiiis.		Problematic Hydric So	ils³:
☐ Histosol			Polyvalue Be			LRR S. T.		(A9) <b>(LRR O)</b>	
_	pipedon (A2)		Thin Dark Su				· —	(A10) <b>(LRR S)</b>	
_	istic (A3)		Loamy Muck					ertic (F18) (outside ML	RA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			loodplain Soils (F19) <b>(L</b>	
	d Layers (A5)		Depleted Ma		<b>5</b> 0)			Bright Loamy Soils (F2	0)
	Bodies (A6) (LRR Fucky Mineral (A7) (L		☐ Redox Dark ☐ Depleted Da	,	,		(MLRA 19	Material (TF2)	
	resence (A8) <b>(LRR I</b>		Redox Depre		. ,		-	w Dark Surface (TF12)	
	uck (A9) <b>(LRR P, T)</b>		☐ Marl (F10) <b>(L</b>	•	-,			ain in Remarks)	
	d Below Dark Surfac		Depleted Oc	hric (F11)	(MLRA 1	l <b>51</b> )			
· =	ark Surface (A12)		Iron-Mangar					of hydrophytic vegetati	
	rairie Redox (A16) (		· <b>—</b>					hydrology must be pres	
	Mucky Mineral (S1) <b>(</b> Gleyed Matrix (S4)	LKK U, S)	☐ Delta Ochric☐ Reduced Ve					isturbed or problematic.	
_	Redox (S5)		Piedmont Flo						
	Matrix (S6)						RA 149A, 153C, 153	D)	
	ırface (S7) <b>(LRR P,</b>								
Restrictive	Layer (if observed)	):							
Type:								V	
Depth (in	ches):						Hydric Soil Pres	ent? Yes X I	No
Remarks:	lydric soil was	nrocor	\ <del>t</del>						
I	iyunc son was	preser	IL.						

Project/Site: San Jose Island City/C	county: Aransas County Sampling Date: 11/11/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: WD04BPH_SJI
BPH	Ν/Δ
Landform (hillslope terrace etc.). Barrier island - flat low marsh	relief (concave, convey, none). None Slone (%): 1-2
Subragian (LRR or MLRA): LRR T / MLRA 150B Lat. 27.88856	8 4 - 97.022986 Sopre (78) Slope (78)
Landform (hillslope, terrace, etc.): Barrier island - flat low marsh Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.88856 Soil Map Unit Name: Beaches	Long Batum Batum.
Soil Map Unit Name: Dodonos	NVVI classification:
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $\underline{N}$ , Soil $\underline{N}$ , or Hydrology $\underline{N}$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes X No	Is the Sampled Area
Hydric Soil Present?         Yes X         No           Wetland Hydrology Present?         Yes X         No	within a Wetland? Yes X No
Remarks:	
The sampled area was determined to be within a w	vetland due to the presence of dominant
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1)  Oxidized Rhizospheres a	
☐ Sediment Deposits (B2) ☐ Presence of Reduced Iron ☐ Drift Deposits (B3) ☐ Recent Iron Reduction in	
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)  Other (Explain in Remark	<del>_</del>
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	
Trestand fry dreiegy was present.	

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover			Number of Dominant Species
1				That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Descent of Descinant Charles
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
	20 /6 01	lotal cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				Column Totals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8.				3 - Prevalence Index is ≤3.0 <sup>1</sup>
				· <del></del>
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30'x30' )	20 /6 01	lotal cover	·	
1. Sarcocornia ambigua	40	Υ	OBL	Indicators of hydric soil and wetland hydrology must
	40	<u>'</u>	OBL	be present, unless disturbed or problematic.
2. Distichlis littoralis				Definitions of Four Vegetation Strata:
3. Suaeda linearis	5	<u>N</u>	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or ozo, and woody planto loop than o.zo it tail.
10				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12	0.5			
		= Total Cov		
50% of total cover: 42.5	20% of	total cover	: 17	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4.				
5				
o		= Total Cov		Hydrophytic Vegetation
500/ 64 4 1				Present? Yes X No
50% of total cover:		total cover		
Remarks: (If observed, list morphological adaptations belo	w).			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: WD04BPH\_SJI

SOIL Sampling Point: WD04BPH\_SJI

Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the	indicato	or confir	m the absence of inc	dicators.)
Depth	<u>Matrix</u>	0/	Redox Features			1 2	- 	D I .
(inches) 0-9	Color (moist) 10YR 7/3	98	Color (moist) 10YR 6/8	2	<u>Type<sup>1</sup></u> C	Loc² M	Texture Loamy sand	Remarks
9-18	10YR 6/3	98	10YR 4/6	2	<u>C</u>	<u>M</u>	Loamy sand	
					_		- <del> </del>	
						_		
							<u> </u>	
				-	_	_		_
1			Deduced Metric M	- <u> </u>			21	Name I Salam M. Madala
			Reduced Matrix, MS			rains.		Pore Lining, M=Matrix.  roblematic Hydric Soils <sup>3</sup> :
Histosol		able to all	Polyvalue Be			IPPST		·
_	oipedon (A2)		Thin Dark Su				· –	A10) (LRR S)
<b> </b>	stic (A3)		Loamy Muck	-				rtic (F18) (outside MLRA 150A,B)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Piedmont Fl	oodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma					Bright Loamy Soils (F20)
	Bodies (A6) (LRR F		Redox Dark	•	,		(MLRA 15	•
	ıcky Mineral (A7) <b>(L</b> esence (A8) <b>(LRR l</b>		Depleted Da		` '			Material (TF2) v Dark Surface (TF12)
	uck (A9) <b>(LRR P, T)</b>	<b>,</b>	Marl (F10) (L	•	0)			nin in Remarks)
	d Below Dark Surfac	ce (A11)	Depleted Oc		(MLRA	151)		,
=	ark Surface (A12)		☐ Iron-Mangan					of hydrophytic vegetation and
	rairie Redox (A16) <b>(</b>		· <b>—</b>					nydrology must be present,
	Mucky Mineral (S1) <b>(</b> Gleyed Matrix (S4)	LRR 0, 5)	Delta Ochric Reduced Vei					sturbed or problematic.
	Redox (S5)		Piedmont Flo					
	l Matrix (S6)						RA 149A, 153C, 153[	D)
	rface (S7) <b>(LRR P,</b>							
Restrictive	Layer (if observed)	:						
Type:								Y
	ches):						Hydric Soil Prese	ent? Yes X No
Remarks:	ydric soil was	nresen	t					
''	yano son was	proson						

Project/Site: San Jose Island City/C	ounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: WD04KNT_SJI
	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - swale Local	relief (concave, convey, none): Concave
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.91456	6 Langui -96.999416 Solve (18): NAD83
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? You	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problema	ttic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	In the County of Account
Hydric Soil Present?         Yes X         No           Wetland Hydrology Present?         Yes X         No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	within a Wetianu: 165 165 140 160
Remarks:	
The sampled area was determined to be within a w	•
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HADBOLOGA	
HYDROLOGY  Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Secondary indicators (minimum of two required)  Surface Soil Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRF	
Saturation (A3) Hydrogen Sulfide Odor (C	
☐ Water Marks (B1) ☐ Oxidized Rhizospheres al	
Sediment Deposits (B2) Presence of Reduced Iron	n (C4) Crayfish Burrows (C8)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	<ul><li>FAC-Neutral Test (D5)</li><li>Sphagnum moss (D8) (LRR T, U)</li></ul>
Field Observations:	— Opriagnam moss (50) (Erick 1, 0)
Surface Water Present? Yes X No Depth (inches): 2	
Water Table Present? Yes X No Depth (inches): at 3	
Saturation Present? Yes X No Depth (inches): at 0	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	
Describe Necorded Data (stream gauge, monitoring well, aerial priotos, pre-	vious inspections), ii available.
Remarks:	
Wetland hydrology was present.	
Trestand hydrology was present.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Dansont of Dansin and Conscient
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(VB)
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Cov		OBL species x 1 =
EOV of total covers				FACW species x 2 =
50% of total cover:	20% 01	total cover:		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				Column Totals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8.				
		= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30' radius	20 /8 01	lotal cover.		
1. Spartina patens	85	Υ	FACW	Indicators of hydric soil and wetland hydrology must
	10	<u>'</u>	FACW	be present, unless disturbed or problematic.
2. Paspalum monostachyum	2			Definitions of Four Vegetation Strata:
3. Phyla nodiflora		N	FAC	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Andropogon glomeratus	2	N	FACW	more in diameter at breast height (DBH), regardless of
5. Fimbristylis castanea	2	N	OBL	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10.				
				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
11				height.
12	101			
50.5		= Total Cov		
50% of total cover: 50.5	20% of	total cover:	20.2	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:				Present? Yes X No
Remarks: (If observed, list morphological adaptations belo				
	•			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: WD04KNT\_SJI

SOIL Sampling Point: WD04KNT\_SJI

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the	indicator	or confirm	m the absence	of indicators.)	
Depth	Matrix				To the Develop				
(inches) 0-5	Color (moist) 10YR 3/2	100	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture Loamy sand	Remarks organic matter p	
	-		5VD 2/4	40		N 4		organic matter p	nesent
5-20	10YR 5/2	90	5YR 3/4	10	<u>C</u>	<u>M</u>	Loamy sand		
	-							·	
									_
	-							-	
				· ·	-	·	· -		
1			Deduced Matrice MC				21	DL. Daniel Malan M. Ma	forting
			=Reduced Matrix, MS LRRs, unless other			ains.		PL=Pore Lining, M=Ma for Problematic Hydri	
Histosol		able to all	Polyvalue Be			DD S T		/luck (A9) <b>(LRR O)</b>	c sons .
_	oipedon (A2)		Thin Dark Su				· —	/luck (A3) (LRR S)	
Black Hi			Loamy Muck	-				ed Vertic (F18) (outside	e MLRA 150A,B)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix	(F2)		Piedm	ont Floodplain Soils (F1	9) <b>(LRR P, S, T)</b>
	d Layers (A5)		Depleted Ma					alous Bright Loamy Soils	s (F20)
	Bodies (A6) (LRR P		Redox Dark	,	,			RA 153B)	
	icky Mineral (A7) <b>(L</b> l esence (A8) <b>(LRR L</b>		Depleted Dar		. ,			arent Material (TF2) Shallow Dark Surface (TI	=12)
	ick (A9) <b>(LRR P, T)</b>	',	Marl (F10) (L	•	0)			(Explain in Remarks)	12)
	d Below Dark Surfac	e (A11)	Depleted Och	•	(MLRA 1	51)		,	
_	ark Surface (A12)		Iron-Mangan					cators of hydrophytic veg	
	rairie Redox (A16) <b>(</b> I		•					land hydrology must be	
	lucky Mineral (S1) <b>(</b> l Gleyed Matrix (S4)	LKK (J, S)	Delta Ochric Reduced Ver					ess disturbed or problen	natic.
	ledox (S5)		Piedmont Flo						
	Matrix (S6)						RA 149A, 153C	, 153D)	
	rface (S7) <b>(LRR P, S</b>								
	_ayer (if observed)	:							
Type:								Y	
Depth (in	ches):						Hydric Soil	Present? Yes X	No
Remarks:	ydric soil was	nreser	nt						
	yano son was	prosci							

Project/Site: San Jose Island City/C	ounty: Aransas County Samplii	ng Date: 10/20/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Samplin	ng Point: WD05BPH_SJI
	on, Township, Range: N/A	
Landform (hillslope terrace etc.). Barrier island - palustrine wetland	relief (concave, convex, none). None	Slope (%): 0-1
Landform (hillslope, terrace, etc.): Barrier island - palustrine wetland Local Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.88363	5 -97.025601	Slope (%) Datum: NAD83
Soil Map Unit Name: Beaches	NWI classification:	balum. <u> </u>
Are climatic / hydrologic conditions on the site typical for this time of year? Y		
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present?	
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problems	atic? (If needed, explain any answers in Rer	narks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, impo	rtant features, etc.
Hydrophytic Vegetation Present? Yes X No	In the Commission Area	
Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland? Yes X	
Wetland Hydrology Present? Yes X No	within a wettand:	<b>'</b> ——
Remarks:		
The sampled area was determined to be within a w	•	ninant
hydrophytic vegetation, hydric soil, and wetland hy	drology.	
HADBOLOGA		
HYDROLOGY  Wetland Hydrology Indicators:	Secondary Indicators (mir	nimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Secondary indicators (min	
Surface Water (A1)  Surface Water (A1)  Aquatic Fauna (B13)		Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRF	<del>-</del> ' ' '	` '
Saturation (A3) Hydrogen Sulfide Odor (C		·
Water Marks (B1) Oxidized Rhizospheres a		
Sediment Deposits (B2)  Presence of Reduced Iron	n (C4) $\qquad \qquad \qquad \qquad \square$ Crayfish Burrows (C8	3)
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on	Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position	
☐ Iron Deposits (B5) ☐ Other (Explain in Remark		
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D	•
☐ Water-Stained Leaves (B9)  Field Observations:	☐ Sphagnum moss (D8	) (LRR 1, U)
Surface Water Present? Yes No X Depth (inches):		
Water Table Present? Yes No X Depth (inches):		
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes	s X No
(includes capillary fringe)		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:		
Wetland hydrology was present.		
Wetland Hydrology was present.		

<b>EGETATION (Four Strata)</b> – Use scientific na	ames of pl	ants.		Sampling Point: WD05BPH_S.
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)  1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
				Total Number of Dominant
i				Species Across All Strata: 2 (B)
i				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
3				
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:	20% of	total cover	:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				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
·				X 2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30'x30' )			= 4 0147	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Sporobolus virginicus	70	<u>Y</u>	FACW	be present, unless disturbed or problematic.
Blutaparon vermiculare	20	Y	FACW	Definitions of Four Vegetation Strata:
Heterotheca subaxillaris	3	<u>N</u>	UPL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Limonium carolinianum	_ 2	<u>N</u>	OBL	more in diameter at breast height (DBH), regardless of
5				height.
S				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
1				height.
2.				
	95	= Total Cov	/er	
50% of total cover: <u>4</u> 7.5	20% of	total cover	<sub>:</sub> 19	
Voody Vine Stratum (Plot size:)				
3				
1				
5				Hydrophytic Vegetation
<b></b>	· · · · · · · · · · · · · · · · · · ·	= Total Cov		Present? Yes X No
50% of total cover:		total cover	·	
Remarks: (If observed, list morphological adaptations bel	low).			
Dominant hydrophytic vegetation was p	present.			

SOIL Sampling Point: WD05BPH\_SJI

Profile Desc	ription: (Describe	to the depth	needed to docu	ment the	indicator	or confir	m the absence of in	dicators.)	
Depth	Matrix	<u> </u>	Redox Features			T. A. v. Branda			
(inches) 0-18	Color (moist) 10YR 6/2		Color (moist) 10YR 5/8	- <u>%</u> 10	Type <sup>1</sup>	<u>Loc²</u> <b>PL</b>	Texture Loamy sand	Remarks	
0-10	1011 0/2	_ = = = = = = = = = = = = = = = = = = =	1011 3/6	_ 10	<u> </u>	- <u> </u>	Loanly Sand		
				- ·					
							<u> </u>		
				_		-	<u> </u>		
	-								
					·				
							<u> </u>		
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, M	S=Masked	d Sand G	rains.	<sup>2</sup> Location: PL=F	Pore Lining, M=Matrix	<b>.</b> .
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators for P	roblematic Hydric S	ioils³:
☐ Histosol	(A1)		Polyvalue Be	elow Surfa	ice (S8) <b>(</b> I	LRR S, T,	<b>U)</b> 1 cm Muck (	(A9) <b>(LRR O)</b>	
Histic E	oipedon (A2)		Thin Dark Su	urface (S9	) (LRR S	, T, U)		(A10) <b>(LRR S)</b>	
_	stic (A3)		Loamy Muck	-		R O)		ertic (F18) (outside M	
	en Sulfide (A4)		Loamy Gleye		(F2)			loodplain Soils (F19)	,
	d Layers (A5)	. T	Depleted Ma		-0)			Bright Loamy Soils (F	<sup>5</sup> 20)
	Bodies (A6) (LRR I cky Mineral (A7) (L		Redox Dark Depleted Da	`	,		(MLRA 15	งงษ) Material (TF2)	
	esence (A8) <b>(LRR I</b>		Redox Depre					w Dark Surface (TF12	))
	ick (A9) <b>(LRR P, T)</b>		Marl (F10) (L		0)			ain in Remarks)	-/
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)		·····,	
Thick Da	ark Surface (A12)		☐ Iron-Mangar	ese Mass	es (F12)	(LRR O, P	<b>P, T)</b> <sup>3</sup> Indicators	of hydrophytic vegeta	ation and
	rairie Redox (A16) <b>(</b>		_					hydrology must be pre	
	lucky Mineral (S1)	(LRR O, S)	Delta Ochric					sturbed or problemat	ic.
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5)		Piedmont Flo					D)	
	Matrix (S6) rface (S7) <b>(LRR P,</b>	S T II)	Anomalous i	ongni Loa	my Sons	(FZU) <b>(IVILI</b>	RA 149A, 153C, 153I	ט	
	Layer (if observed)								
Type:	.,	,							
	ches):						Hydric Soil Pres	ent? Yes X	No
Remarks:			<u> </u>				,		
H	ydric soil was	s present							
	-	•							

Applicant/Owner: Port of Corpus Christi Authority	Ounty: Aransas County State: TX Sampling Date: 10/18/2021 Sampling Point: WD05KNT_SJI
	NWI classification: None  [res X No (If no, explain in Remarks.)]  [bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problems  SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No No Hydric Soil Present? Yes X No	Is the Sampled Area within a Wetland?  Yes X No  Vetland due to the presence of dominant
HYDROLOGY	
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)  □ 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)  Field Observations:	Moss Trim Lines (B16)  long Living Roots (C3)  n (C4)  Tilled Soils (C6)  Moss Trim Lines (B16)  Dry-Season Water Table (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)
Surface Water Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, presents:  Wetland hydrology was present.	vious inspections), if available:

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Demonstrat Demoissant Consists
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(VB)
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Cov		OBL species x 1 =
EOO/ of total across				FACW species x 2 =
50% of total cover:	20% 01	total cover:		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				Column Totals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30' radius )	20 /0 01	total cover.		4
1. Spartina patens	40	Υ	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Andropogon glomeratus	30	Y	FACW	
	10	N	OBL	Definitions of Four Vegetation Strata:
3. Fimbristylis castanea		<del></del>		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Schizachyrium scoparium	10	<u>N</u>	FACU	more in diameter at breast height (DBH), regardless of
5. Ambrosia psilostachya	5	N	FAC	height.
6. Conoclinium coelestinum	2	<u>N</u>	FAC	Sapling/Shrub – Woody plants, excluding vines, less
7. Phyla nodiflora	2	N	FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				
11				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
12.				noight.
12.	99	= Total Cov		
50% of total cover: 49.5				
	20% of	total cover:	10.0	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	er	Vegetation
50% of total cover:	20% of	total cover:		Present? Yes X No
Remarks: (If observed, list morphological adaptations belo				
	•			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: WD05KNT\_SJI

SOIL Sampling Point: WD05KNT\_SJI

Profile Desc	ription: (Describe	to the dep	th needed to docur	ment the	indicator	or confirm	n the absence	of indicator	s.)	
Depth	Matrix									
(inches)	Color (moist)	<u> %</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	organia	Remarks	na ant
0-10	10YR 3/1	100	40)/D 5/0	40			loamy sand	organic	matter pre	esent
10-20	10YR 5/2	90	10YR 5/8	10	<u>C</u>	M	loamy sand			
				<u> </u>						
	-			-	-					
				-						
1		<del></del>				<del></del>				
			Reduced Matrix, MS			rains.			ning, M=Matri natic Hydric S	
		able to all				I DD C T I			-	ooiis :
Histosol	oipedon (A2)		☐ Polyvalue Be☐ Thin Dark Su				-	Иuck (A9) <b>(LF</b> Иuck (A10) <b>(L</b>	•	
Black Hi			Loamy Muck							ILRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye	-		·				(LRR P, S, T)
	d Layers (A5)		Depleted Ma					_	₋oamy Soils (I	=20)
_	Bodies (A6) (LRR F		Redox Dark	,	,		`	RA 153B)	L (TEO)	
	icky Mineral (A7) <b>(L</b> l esence (A8) <b>(LRR L</b>		Depleted Dai					arent Materia	al (TF2) Surface (TF1:	2)
	ick (A9) <b>(LRR P, T)</b>	")	Marl (F10) (L	•	0)			(Explain in R		2)
	d Below Dark Surfac	e (A11)	Depleted Ocl	-	(MLRA 1	51)		(=//p//////////////////////////////////		
Thick Da	ark Surface (A12)		☐ Iron-Mangan	ese Mass	es (F12)	(LRR O, P		-	ophytic veget	
	rairie Redox (A16) (		•					-	gy must be pr	
_	Mucky Mineral (S1) (	LRR O, S)	Delta Ochric					ess disturbed	l or problemat	ic.
	Bleyed Matrix (S4) Redox (S5)		Reduced Ver							
	Matrix (S6)						RA 149A, 153C	, 153D)		
	rface (S7) (LRR P,									
Restrictive	Layer (if observed)	:								
Type:									V	
Depth (in	ches):						Hydric Soil	Present?	Yes X	No
Remarks:	ydric soil was	nracan	+							
''	yunc son was	piesei	ι.							

Project/Site: San Jose Island City/Co	ounty: Aransas County Sampling Date: 11/11/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: WD06BPH_SJI
Investigator(a): BPH Section	n Township Banga: N/A
Landform (hillslope torrace etc.). Barrier island - flat low marsh	relief (concease convex none): None Slone (%): 1-2
Landform (hillslope, terrace, etc.): Barrier island - flat low marsh Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.883864	4 January -97.025971 Detum: NAD83
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Ye	
Are Vegetation N, Soil N, or Hydrology N significantly disturb	ed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $\underline{N}$ , Soil $\underline{N}$ , or Hydrology $\underline{N}$ naturally problemate	tic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS - Attach site map showing sample	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes X No	Is the Sampled Area
Hydric Soil Present?         Yes X         No           Wetland Hydrology Present?         Yes X         No	within a Wetland? Yes X No
Remarks:	
The sampled area was determined to be within a w	etland due to the presence of dominant
hydrophytic vegetation, hydric soil, and wetland hyd	<u>•</u>
	<b>5,</b>
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRR	
Saturation (A3)  Hydrogen Sulfide Odor (C	
Water Marks (B1)  Oxidized Rhizospheres ald	
☐ Sediment Deposits (B2) ☐ Presence of Reduced Iron ☐ Drift Deposits (B3) ☐ Recent Iron Reduction in T	
☑ Algal Mat or Crust (B4) ☐ Thin Muck Surface (C7)	Geomorphic Position (D2)
Iron Deposits (B5)  Other (Explain in Remarks	
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes No X Depth (inches):	
Saturation Present? Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, prev	ious inspections) if available:
Describe Necorded Data (Stream gauge, monitoring well, acrial photos, prev	ious inspections), ii available.
Remarks:	
Wetland hydrology was present.	
Wettaria riyarology was present.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Dansont of Dansin and Conscient
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(VB)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Co		OBL species x 1 =
FOO/ - 54-4-1				FACW species x 2 =
50% of total cover:	20% 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1			-	UPL species x 5 =
2				Column Totals: (A) (B)
3				Column rotals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8.				
<u> </u>		= Total Co		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30'x30' )	20 /6 01	lotal cover	•	
1 Distichlis littoralis	40	Υ	OBL	Indicators of hydric soil and wetland hydrology must
·	20	Y	OBL	be present, unless disturbed or problematic.
2. Sarcocornia ambigua				Definitions of Four Vegetation Strata:
3. Lycium carolinianum	20	Y	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Distichlis spicata	10	N	OBL	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10.				
				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
11		-	-	height.
12	90			
500 5111 45		= Total Co		
50% of total cover: 45	20% of	total cover	: 10	
Woody Vine Stratum (Plot size:)				
1				
2				
3		-		
4				
5				Hydrophytic
		= Total Co	ver	Vegetation
50% of total cover:	20% of	total cover	••	Present? Yes X No
Remarks: (If observed, list morphological adaptations below				
	•			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: WD06BPH\_SJI

SOIL Sampling Point: WD06BPH\_SJI

	-	to the de				r or confir	m the absence of in	dicators.)
Depth (inches)	Matrix Color (moist)	%	Redo	x Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	_ Texture	Remarks
0-8	10YR 7/3	98	10YR 6/8	2	C	M	Loamy sand	riomanio
8-18	10YR 6/3	98	10YR 4/6	2	C	M	Loamy sand	
0 10	1011110/0		10111 4/0					
-				_	_			
				_				
				_	_			
<u> </u>								
<sup>1</sup> Type: C=C	oncentration D=De	nletion RM	=Reduced Matrix, M	S=Maske	ed Sand G	rains	<sup>2</sup> l ocation: Pl =l	Pore Lining, M=Matrix.
			LRRs, unless othe			Tallio.		Problematic Hydric Soils <sup>3</sup> :
Histoso			Polyvalue Be			LRR S, T,		(A9) <b>(LRR O)</b>
_	pipedon (A2)		Thin Dark Su				· —	(A10) (LRR S)
_	istic (A3)		Loamy Muck	-		R O)		ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gleye		(F2)			loodplain Soils (F19) (LRR P, S, T)
	d Layers (A5) Bodies (A6) <b>(LRR</b> I	D T II\	Depleted Ma		(E6)		Anomalous	Bright Loamy Soils (F20)
	ucky Mineral (A7) <b>(L</b>		=		. ,			Material (TF2)
	resence (A8) (LRR		Redox Depre		` '		<del></del>	w Dark Surface (TF12)
1 cm M	uck (A9) <b>(LRR P, T)</b>		<u> </u>	RR U)			Other (Expl	ain in Remarks)
_	d Below Dark Surfa	ce (A11)	Depleted Oc			•	3	
_	ark Surface (A12)	MI DA 150	Iron-Mangar		, ,	•		of hydrophytic vegetation and
	rairie Redox (A16) ( //ucky Mineral (S1)		A) Umbric Surfa Delta Ochric					hydrology must be present, isturbed or problematic.
	Gleyed Matrix (S4)	(LIKIT 0, 0)	Reduced Ve					starbed of problematic.
_	Redox (S5)		Piedmont Flo					
_	l Matrix (S6)		Anomalous I	Bright Loa	amy Soils	(F20) <b>(ML</b>	.RA 149A, 153C, 153	D)
	rface (S7) (LRR P,							
	Layer (if observed	):						
Type:	-l \·						Uhadria Cail Basa	ent? Yes X No
	ches):						Hydric Soil Pres	ent? Yes ^ No
Remarks:	lydric soil was	s preser	nt.					
-	,							

	ounty: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: WD06KNT_SJ
Investigator(s): CSK, KNT Section	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - swale behind dunes Local	relief (concave, convex, none): Concave Slope (%): 0-5
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.90580	4 Long: -97.006909 Datum: NAD83
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Y	es X No (If no, explain in Remarks.)
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly disturb	
Are Vegetation $\overline{N}$ , Soil $\overline{N}$ , or Hydrology $\overline{N}$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes X No	Is the Sampled Area
Hydric Soil Present?         Yes X         No           Wetland Hydrology Present?         Yes X         No	within a Wetland? Yes X No
Remarks:	
The sampled area was determined to be within a w	etland due to the presence of dominant
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
U       Surface Water (A1)       U       Aquatic Fauna (B13)         U       High Water Table (A2)       U       Marl Deposits (B15) (LRF	Sparsely Vegetated Concave Surface (B8)  R U)  Drainage Patterns (B10)
Saturation (A3)  Hydrogen Sulfide Odor (C	
Water Marks (B1)  Water Marks (B1)  Water Marks (B1)	
Sediment Deposits (B2)  Presence of Reduced Iron	
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	Spriagrium moss (Do) (ERR 1, 0)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches): at 4	
Saturation Present? Yes X No Depth (inches): at C	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Describe Necorded Data (stream gauge, monitoring well, aerial priotos, pre	vious irispections), ii available.
Remarks:	
Wetland hydrology was present.	
Wetland Hydrology was present.	

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Descent of Descinant Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	f total cover	:	
Herb Stratum (Plot size: 30' radius				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Distichlis spicata	40	Υ	OBL	be present, unless disturbed or problematic.
2. Paspalum monostachyum	20	Y	FACW	Definitions of Four Vegetation Strata:
3. Spartina patens	10	N	FACW	
4. Fimbristylis castanea	5	N	OBL	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5. Rhynchospora colorata	5	N	FACW	height.
6. Verbena bonariensis	5	N	FAC	
7. Muhlenbergia capillaris	5	N	FAC	Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
			1710	than 5 m. bbr and greater than 5.20 h (1 m) tail.
8				Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine - All woody vines greater than 3.28 ft in
11				height.
12				
		= Total Cov		
50% of total cover: 45	20% of	f total cover	: <u>18</u>	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4.				
5.				Livelyambystic
<u> </u>		= Total Cov		Hydrophytic Vegetation
50% of total cover:				Present? Yes X No
		total cover	·	
Remarks: (If observed, list morphological adaptations bel	•			
Dominant hydrophytic vegetation was p	oresent.			

Sampling Point: WD06KNT\_SJI

SOIL Sampling Point: WD06KNT\_SJI

Profile Desc	cription: (Describe	to the dep	th needed to docur	ment the	indicator	or confirm	n the absence	of indicator	s.)	
Depth	<u>Matrix</u>			x Feature		. 2				
(inches)	Color (moist)	400	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	ora onio	Remarks	
0-3	7.5YR 2.5/1	100	40) (D. 5/0				loamy sand	organic	matter pre	esent
3-20	10YR 5/2	90	10YR 5/8	10	<u>C</u>	M	loamy sand			
		· ——			·					,
-										
		<del></del>								
	oncentration, D=Dep					rains.			ning, M=Matrix	
	Indicators: (Applic	able to all							natic Hydric S	Soils":
Histosol	(A1) pipedon (A2)		☐ Polyvalue Be☐ Thin Dark Su				-	Лиск (А9) <b>(LF</b> Лиск (А10) <b>(L</b>	•	
<b> </b>	stic (A3)		Loamy Muck							ILRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye	-		,		•	, .	(LRR P, S, T)
_	d Layers (A5)		Depleted Ma		` ,			•	oamy Soils (F	
	Bodies (A6) (LRR P		Redox Dark	Surface (F	<del>-</del> 6)			RA 153B)		
	ıcky Mineral (A7) <b>(Li</b>							arent Materia	, ,	
	resence (A8) (LRR U	)	Redox Depre	•	8)				Surface (TF1:	2)
	ick (A9) <b>(LRR P, T)</b> d Below Dark Surfac	ο (Δ11)	☐ Marl (F10) <b>(L</b> ☐ Depleted Ocl	-	/MI DA 1	51)	<u> </u>	(Explain in R	emarks)	
I = 1	ark Surface (A12)	C (/ (/ / )	Iron-Mangan		•	•	, <b>T)</b> <sup>3</sup> Indio	ators of hydr	ophytic veget	ation and
=	rairie Redox (A16) <b>(I</b>	/ILRA 150	_					-	gy must be pr	
	lucky Mineral (S1) <b>(I</b>	RR O, S)	Delta Ochric					ess disturbed	l or problemat	ic.
	Gleyed Matrix (S4)		Reduced Ver							
	Redox (S5)		Piedmont Flo					450D)		
	l Matrix (S6) rface (S7) <b>(LRR P, \$</b>	: T II)	<u> </u>	ongni Loa	my Soils	(FZU) <b>(WILF</b>	RA 149A, 153C	, 1530)		
	Layer (if observed):									
Type:										
Depth (in	ches):						Hydric Soil	Present?	Yes X	No
Remarks:	·						1.7			
H	ydric soil was	presen	t.							

Project/Site: San Jose Island City	//County: Aransas County	Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	<sub>State:</sub> TX	Sampling Point: WD07BPH_SJI
Investigator(s): BPH Section Section Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.8787 Soil Map Unit Name: Beaches	ction, Township, Range: N/A	
Landform (hillslope, terrace, etc.): Barrier island - palustrine wetland Loc	cal relief (concave, convex, none): None	Slope (%): 0-1
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.8787	'39 Long: -97.028468	Datum: NAD83
Soil Map Unit Name: Beaches	NWI classifie	cation: None
Are climatic / hydrologic conditions on the site typical for this time of year?		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	matic? (If needed, explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sa		
Livedison buttle Venetation Descents Ven X	T	
Hydrophytic Vegetation Present?  Yes X  No  Hydric Soil Present?  Yes X  No	Is the Sampled Area	
Hydric Soil Present?  Wetland Hydrology Present?  Yes X No Yes X No	within a Wetland? Yes X	No
Remarks:	_	
The sampled area was determined to be within a	wetland due to the presence	of dominant
hydrophytic vegetation, hydric soil, and wetland h	•	
HYDROLOGY		
Wetland Hydrology Indicators:	Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)		getated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (L	<del>-</del> ' '	` '
Saturation (A3) Hydrogen Sulfide Odor	r (C1) Moss Trim L	ines (B16)
Water Marks (B1) — Oxidized Rhizospheres	s along Living Roots (C3) 🔲 Dry-Season	Water Table (C2)
Sediment Deposits (B2)		
☐ Drift Deposits (B3) ☐ Recent Iron Reduction		risible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Iron Deposits (B5)  Thin Muck Surface (C7)  Other (Explain in Rema	·	Position (D2)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral	` '
Water-Stained Leaves (B9)	<del>-</del>	moss (D8) <b>(LRR T, U)</b>
Field Observations:		
Surface Water Present? Yes No X Depth (inches):		
Water Table Present? Yes X No Depth (inches): 1	2	V
Saturation Present? Yes X No Depth (inches): 8	Wetland Hydrology Presei	nt? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, p	previous inspections), if available:	
Remarks:		
Wetland hydrology was present.		

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Dansont of Dansin and Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6.				(VB)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Co		OBL species x 1 =
EON of total cover				FACW species x 2 =
50% of total cover:	20% 0	i total cover	•	FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2		-		Column Totals: (A) (B)
3				Column Totals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				
<u> </u>		= Total Co		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
	20% 0	i lolai covei		
Herb Stratum (Plot size: 30'X30' )  1. Fimbristylis castanea	32	Υ	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
•		<u>Y</u>		be present, unless disturbed or problematic.
2. Iva frutescens	32		FACW	Definitions of Four Vegetation Strata:
3. Spartina patens	32	<u>Y</u>	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Borrichia frutescens	4	N	OBL	more in diameter at breast height (DBH), regardless of
5. Heterotheca subaxillaris	1	N	UPL	height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				Heat. All back are see (a so week) also to according
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or oleo, and woody planto loop than oleo trialin
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	100			
50		= Total Co		
50% of total cover: <u>50</u>	20% of	f total cove	: 20	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4.				
5.				Hadron bod's
<u> </u>		= Total Co		Hydrophytic Vegetation
50% of total cover:				Present? Yes X No
		total cover	•	
Remarks: (If observed, list morphological adaptations beli-	•			
Dominant hydrophytic vegetation was p	resent.			
				<b>.</b>

Sampling Point: WD07BPH\_SJI

SOIL Sampling Point: WD07BPH\_SJI

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of in	dicators.)	
Depth	Matrix			x Feature	s Type <sup>1</sup>	Loc <sup>2</sup>	T	Damania	
(inches) 0-18	Color (moist) 10YR 6/2	- <u>%</u> -	Color (moist) 10YR 5/8	- <u>%</u> - 5	C	M	Texture  Loamy sand	Remarks	
0-10	1011 0/2	_ 95 _	1011 3/6		<u> </u>	IVI	Loanly sand		
									,
						-			
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, M	S=Masked	d Sand G	rains.	<sup>2</sup> Location: PL=I	Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators for P	Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) <b>(</b>	LRR S, T,	<b>U)</b> 1 cm Muck	(A9) <b>(LRR O)</b>	
Histic E	oipedon (A2)		Thin Dark Su	urface (S9)	(LRR S	, T, U)		(A10) <b>(LRR S)</b>	
_	stic (A3)		Loamy Muck	-		R O)		ertic (F18) (outside MLRA	
	en Sulfide (A4)		Loamy Gleye		F2)			loodplain Soils (F19) (LRR	P, S, T)
	d Layers (A5)	. T III	Depleted Ma		-0)			Bright Loamy Soils (F20)	
	Bodies (A6) (LRR I ucky Mineral (A7) (L		Depleted Da	`	,		(MLRA 15	мaterial (TF2)	
	esence (A8) <b>(LRR I</b>		Redox Depre					w Dark Surface (TF12)	
	uck (A9) <b>(LRR P, T)</b>	-,	Marl (F10) (L		<b>O</b> )			ain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Oc		(MLRA 1	51)		,	
Thick Da	ark Surface (A12)		☐ Iron-Mangan	ese Mass	es (F12)	(LRR O, P	, <b>T)</b> <sup>3</sup> Indicators	of hydrophytic vegetation	and
	rairie Redox (A16) <b>(</b>		_					hydrology must be present,	,
	Mucky Mineral (S1)	LRR O, S)	Delta Ochric					isturbed or problematic.	
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) I Matrix (S6)		Piedmont Flo				49A) RA 149A, 153C, 153	D)	
	rface (S7) <b>(LRR P,</b>	S T II)	Anomalous i	origini Loai	ny Sons	(FZU) <b>(IVIL</b> F	RA 149A, 153C, 153	יט	
	Layer (if observed)								
Type:	.,	'							
	ches):						Hydric Soil Pres	ent? Yes X No	
Remarks:							1 .,		
H	ydric soil was	present							
	•	•							

Project/Site: San Jose Island City/County: Aransas County  Applicant/Owner: Port of Corpus Christi Authority  State: TX	Sampling Date: 10/18/2021 Sampling Point: WD07KNT_SJI
Investigator(s): CSK, KNT Section, Township, Range: N/A	
Landform (hillslope, terrace, etc.): Barrier island - swale Local relief (concave, convex, none): Concept Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.905915 Long: -97.007261	
Are climatic / hydrologic conditions on the site typical for this time of year? Yes $X$ No (If no, explain	
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly disturbed? Are "Normal Circumstance"	
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problematic? (If needed, explain any analysis)	
SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transe	
Hydrophytic Vegetation Present?  Yes X  No Is the Sampled Area	
v is the sampled filed	(
Wetland Hydrology Present?  Yes X  No	NO
Remarks:	
The sampled area was determined to be within a wetland due to the present	e of dominant
hydrophytic vegetation, hydric soil, and wetland hydrology.	
HYDROLOGY	
<u> </u>	dicators (minimum of two required)
	Soil Cracks (B6)
	Vegetated Concave Surface (B8)
	Patterns (B10) m Lines (B16)
	on Water Table (C2)
	Burrows (C8)
	n Visible on Aerial Imagery (C9)
	hic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remarks) ☐ Shallow A	Aquitard (D3)
<del> </del>	tral Test (D5)
☐ Water-Stained Leaves (B9) ☐ Sphagnu	m moss (D8) <b>(LRR T, U)</b>
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present?  Yes No X Depth (inches):	~
Saturation Present? Yes No X Depth (inches): Wetland Hydrology Pre (includes capillary fringe)	sent? Yes X No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	
Wetland hydrology was present.	
Treatment in an energy made processing	

<b>EGETATION (Four Strata)</b> – Use scientific na	ames of pl	ants.		Sampling Point: WD07KNT_S.
		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)  1		Species?		Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
<u> </u>				Total Number of Dominant
i				Species Across All Strata: 2 (B)
i				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
3				
				Prevalence Index worksheet:
				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:	20% of	total cover	:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				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
·				X 2 - Dominance Test is >50%
				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30' radius	00	V	0.01	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
Fimbristylis castanea	20	<u>Y</u>	OBL	be present, unless disturbed or problematic.
Spartina patens	20	Y	FACW	Definitions of Four Vegetation Strata:
Paspalum monostachyum	10	<u>N</u>	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
Conoclinium coelestinum	5	<u>N</u>	FAC	more in diameter at breast height (DBH), regardless of
Andropogon glomeratus	2	<u>N</u>	FACW	height.
3				Sapling/Shrub – Woody plants, excluding vines, less
·				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
3				Herb – All herbaceous (non-woody) plants, regardless
)				of size, and woody plants less than 3.28 ft tall.
0				Weedy vine All weedy vines greater than 2.20 ft in
11.				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
2.				
	57	= Total Cov	/er	
50% of total cover: 28.5	20% of	total cover	11.4	
Voody Vine Stratum (Plot size:)	20 70 0.	10101 00101	· ——	
·				
2				
3				
1				
5				Hydrophytic
<b>-0</b> 2/ 5/ / 1	<u> </u>	= Total Cov		Vegetation
50% of total cover:		total cover	·	
Remarks: (If observed, list morphological adaptations bel	ow).			
Dominant hydrophytic vegetation was բ	oresent.			

SOIL Sampling Point: WD07KNT\_SJI

Depth	Matrix			ox Feature					
(inches)	Color (moist)	%	Color (moist)	_ %	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-20	10YR 5/2	98	10YR 6/8	_ 2	<u>C</u>	<u>M</u>	Loamy sand		
					_	_	<u> </u>		
						-	· <u></u>		
					-	-	<del></del>		
						-			
							· ——		
			=Reduced Matrix, M			rains.		Pore Lining, M=Matrix	
		cable to all	LRRs, unless other					Problematic Hydric S	Soils':
Histoso			Polyvalue B				· —	(A9) (LRR O)	
<b>=</b>	pipedon (A2) istic (A3)		Thin Dark S	-				(A10) <b>(LRR S)</b> ertic (F18) <b>(outside N</b>	II DA 150A E
	en Sulfide (A4)		Loamy Gley	•	. , .	K 0)		Floodplain Soils (F19)	
	d Layers (A5)		Depleted Ma		(, _)			Bright Loamy Soils (F	•
	Bodies (A6) (LRR	P, T, U)	Redox Dark	Surface (I	F6)		(MLRA 1	53B)	,
	ucky Mineral (A7) <b>(L</b>		_		` '			: Material (TF2)	
	resence (A8) (LRR		Redox Depr	•	·8)			w Dark Surface (TF12	2)
_	uck (A9) <b>(LRR P, T)</b> d Below Dark Surfa		Marl (F10) <b>(</b> Depleted O	•	/MI DA 4	E4\	U Other (Expl	ain in Remarks)	
_	d Беюw Багк Зипа ark Surface (А12)	Ce (ATT)	Iron-Mangai		•	•	2. <b>T)</b> <sup>3</sup> Indicators	s of hydrophytic veget	ation and
=	rairie Redox (A16)	(MLRA 150	=		, ,	•		hydrology must be pro	
📘 Sandy I	Mucky Mineral (S1)	(LRR O, S)	Delta Ochrid	(F17) <b>(M</b> I	LRA 151)		unless d	listurbed or problemat	ic.
_	Gleyed Matrix (S4)		Reduced Ve						
=	Redox (S5)		Piedmont FI					·D)	
	d Matrix (S6) urface (S7) <b>(LRR P,</b>	S T III	<u></u> Anomaious	Bright Loa	my Solis	(F20) <b>(NIL</b> I	RA 149A, 153C, 153	(טו	
	Layer (if observed								
Type:	, (	,-							
	ches):						Hydric Soil Pres	sent? Yes X	No
Remarks:							1.,,		
F	lydric soil was	s preser	ıt.						

Project/Site: San Jose Island	City/County: Aransas	County	Sampling Date: 11/11/2021
Applicant/Owner: Port of Corpus Christi Authority	, ,	State: TX	Sampling Point: WD08BPH_SJI
Investigator(s): BPH  Landform (hillslope, terrace, etc.): Barrier island - flat low marsh	Section, Township, Range	 .: N/A	·
Landform (hillslope, terrace, etc.): Barrier island - flat low marsh	Local relief (concave, con	<sub>/ex. none):</sub> None	Slope (%): 1-2
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.87	79589 Lon	g: -97.029146	Datum: NAD83
Soil Map Unit Name: Beaches		9 NWI classifi	cation: E2USP
Are climatic / hydrologic conditions on the site typical for this time of ye	ar? Yes X No	(If no, explain in F	Remarks.)
Are Vegetation $\underline{N}$ , Soil $\underline{N}$ , or Hydrology $\underline{N}$ significantly	disturbed? Are "No	rmal Circumstances"	present? Yes X No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally properties	oblematic? (If need	ed, explain any answe	
SUMMARY OF FINDINGS – Attach site map showing		ations, transects	s, important features, etc.
Liberteen busties Veneratation Dunas and 2 Vene X			
Hydrophytic Vegetation Present? Yes X No  Hydric Soil Present? Yes X No	Is the Sampled Ar		
Wetland Hydrology Present? Yes X No	within a Wetland?	Yes X	No
Remarks:			
The sampled area was determined to be within	n a wetland due to	the presence	of dominant
hydrophytic vegetation, hydric soil, and wetland		p. 0001.00	
Try arophytic vogetation, rry ario con, and we talk	a nyarology.		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)	•	Sparsely Ve	egetated Concave Surface (B8)
High Water Table (A2)  Harl Deposits (B15)			atterns (B10)
Saturation (A3) Hydrogen Sulfide C	, ,	☐ Moss Trim L	
	eres along Living Roots (C	. —	Water Table (C2)
Sediment Deposits (B2)  Presence of Reduction Processing Processin	, ,	Crayfish Bu	` <i>'</i>
	tion in Tilled Soils (C6)		/isible on Aerial Imagery (C9)
✓ Algal Mat or Crust (B4)       ☐ Thin Muck Surface         ☐ Iron Deposits (B5)       ☐ Other (Explain in R		Shallow Aqu	Position (D2)
Inundation Visible on Aerial Imagery (B7)	emarks)	FAC-Neutra	` '
Water-Stained Leaves (B9)		=	moss (D8) <b>(LRR T, U)</b>
Field Observations:		орнаднанг	
V	):		
Water Table Present? Yes No X Depth (inches)			
		nd Hydrology Prese	nt? Yes X No
(includes capillary fringe)		, ,,	
Describe Recorded Data (stream gauge, monitoring well, aerial photo	s, previous inspections), if	available:	
Remarks:			
Wetland hydrology was present.			
Wettaria riyarology was present.			

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: $\frac{2}{}$ (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Developt of Development Conscion
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	20 /0 01	total cover		FAC species x 3 =
				FACU species x 4 =
1				UPL species x 5 =
2.				Column Totals: (A) (B)
3				(-)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	••	1 Toblematic Hydrophytic Vegetation (Explain)
Herb Stratum (Plot size: 30'x30' )				The disease of budgie call and water of budgets were
1 Distichlis littoralis	50	Υ	OBL	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Sarcocornia ambigua	40	Y	OBL	Definitions of Four Vegetation Strata:
				Deminions of Four Vegetation offata.
3				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				noight
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12.				
	90	= Total Cov	ver	
50% of total cover: 45				
Woody Vine Stratum (Plot size: )	2070 01	10101 00101		
1				
2			-	
3				
4				
5				Hydrophytic
		= Total Cov	ver	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes X No
Remarks: (If observed, list morphological adaptations below	ow).			
	•			
Dominant hydrophytic vegetation was p	nesent.			

Sampling Point: WD08BPH\_SJI

SOIL Sampling Point: WD08BPH\_SJI

		e to the de				or confir	m the absence of in	dicators.)
Depth (inches)	Matrix Color (moist)	%	Color (moist)	ox Feature %	es Type <sup>1</sup>	_ Loc²	_ Texture	Remarks
0-8	10YR 6/3	95	10YR 6/8	5	C	M	Loamy sand	romano
8-18	10YR 6/2	95	10YR 4/6	5	C	M	Loamy sand	
0 10	10111 0/2		10111 4/0	- —				
			-	_		-		
						_		
				_				
1Typo: C=C	oncontration D=Da	nlotion PM	=Reduced Matrix, M	S-Maska	d Sand G	raine	2l ocation: DI =	Pore Lining, M=Matrix.
			LRRs, unless othe			iaiiis.		Problematic Hydric Soils <sup>3</sup> :
Histosol			Polyvalue Bo			LRR S. T.		(A9) (LRR O)
_	pipedon (A2)		Thin Dark S				· —	(A10) (LRR S)
	istic (A3)		Loamy Muck					ertic (F18) (outside MLRA 150A,B)
	en Sulfide (A4)		Loamy Gley		(F2)			loodplain Soils (F19) (LRR P, S, T)
	d Layers (A5)		Depleted Ma		(=0)			Bright Loamy Soils (F20)
	Bodies (A6) (LRR		Redox Dark Depleted Da		,		(MLRA 19	53B) Material (TF2)
	ucky Mineral (A7) <b>(L</b> resence (A8) <b>(LRR</b>		Redox Depr		` '		<del></del>	w Dark Surface (TF12)
	uck (A9) <b>(LRR P, T)</b>		Marl (F10) (I	•	0)			ain in Remarks)
	d Below Dark Surfa		Depleted Oc	•	) (MLRA	151)		,
Thick D	ark Surface (A12)		☐ Iron-Mangar	nese Mas	ses (F12)	(LRR O, F		of hydrophytic vegetation and
	rairie Redox (A16)		· <b>—</b>					hydrology must be present,
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					listurbed or problematic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ve					
	Matrix (S6)		_				.RA 149A, 153C, 153	D)
_	rface (S7) (LRR P,	S, T, U)			,	(·/ <b>(</b>	,,	-,
Restrictive	Layer (if observed	):						
Type:								.,
Depth (in	ches):						Hydric Soil Pres	sent? Yes X No
Remarks:								
H	lydric soil wa	s presei	nt.					

Project/Site: San Jose Island City/C	<sub>County:</sub> Aransas County	Sampling Date: 11/11/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX	Sampling Point: WD09BPH_SJI
Investigator/s): BPH Section	on Township Pango: N/A	
Landform (hillslope, terrace, etc.): Barrier island - flat high marsh Local Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.87490	relief (concave, convey, none). None	Slone (%): 1-2
Subragion (LBB or MLBA), LRR T / MLRA 150B Let. 27.87490	2 -97.031021	Slope (70)
Soil Map Unit Name: Beaches	Long NWI classific	F2FM1P
Are climatic / hydrologic conditions on the site typical for this time of year? Y		
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" p	
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problems	atic? (If needed, explain any answe	rs in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes X No		
Hydric Soil Present? Yes X No	Is the Sampled Area	No
Hydric Soil Present?         Yes X         No           Wetland Hydrology Present?         Yes X         No	within a Wetland? Yes 🔨	No
Remarks:		
The sampled area was determined to be within a w	vetland due to the presence	of dominant
hydrophytic vegetation, hydric soil, and wetland hy	drology.	
HYDROLOGY		
Wetland Hydrology Indicators:		ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		` '
Surface Water (A1)  Aquatic Fauna (B13)  And Reposite (B15) (B15)	<del></del>	getated Concave Surface (B8)
High Water Table (A2) Saturation (A3)  High Water Table (A2)  Marl Deposits (B15) (LRF		· · ·
Water Marks (B1)  Saturation (A3)  Water Marks (B1)  Oxidized Rhizospheres a		Water Table (C2)
Sediment Deposits (B2)  Presence of Reduced Iro		· ·
Drift Deposits (B3)  Recent Iron Reduction in		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)		Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	(s) Shallow Aqui	tard (D3)
Inundation Visible on Aerial Imagery (B7)	☑ FAC-Neutral	Test (D5)
Water-Stained Leaves (B9)	Sphagnum m	noss (D8) <b>(LRR T, U)</b>
Field Observations:		
Surface Water Present? Yes No X Depth (inches):		
Water Table Present? Yes X No Depth (inches): 12" f	rom surface	V
Saturation Present? Yes X No Depth (inches): 8" from Includes capillary fringe)	Wetland Hydrology Presen	nt? Yes ^ No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:	
Remarks:		
Wetland hydrology was present.		

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Descent of Descinant Charica
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Co		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
1				FACU species x 4 =
				UPL species x 5 =
2			· <del></del>	Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0¹
		= Total Co	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	f total cove	r:	
Herb Stratum (Plot size: 30'x30' )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Fimbristylis castanea	50	Υ	OBL	be present, unless disturbed or problematic.
2. Borrichia frutescens	30	Υ	OBL	Definitions of Four Vegetation Strata:
3. Distichlis spicata	15	N	OBL	Tree Meady plants avaluding vines 2 in (7.6 cm) or
4. Spartina patens	5	N	FACW	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9			· <del></del>	or size, and woody plants loss than e.ze it tall.
10				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
11	<del>-</del>			height.
12	100		· <del></del>	
50		= Total Co		
50% of total cover: <u>50</u>	20% of	f total cove	r: <u>20</u>	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co	ver	Vegetation
50% of total cover:	20% of	f total cove	r:	Present? Yes X No
Remarks: (If observed, list morphological adaptations bel-	ow).			
Dominant hydrophytic vegetation was r	•			
Dominant hydrophytic vegetation was p	n cociil.			

Sampling Point: WD09BPH\_SJI

SOIL Sampling Point: WD09BPH\_SJI

Profile Des	cription: (Describe	to the de	pth needed to docu	ment the	indicator	or confir	m the absence of inc	dicators.)
Depth	Matrix			ox Feature		. 2	- <u> </u>	
(inches) 0-4	Color (moist)	<u>%</u>	Color (moist)	% 	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
	10YR 4/2	95	10YR 5/8	_ 5	<u> C</u>		Loamy sand	
4-8	10YR 5/2	95	10YR 5/8	5	<u>C</u>	<u>M</u>	Loamy sand	
<u>8-18</u>	10YR 4/1	95	10YR 5/8	5	<u>C</u>	M	Loamy sand	
-			-					
						-		
1			. <del> </del>					
			I=Reduced Matrix, M I LRRs, unless othe			rains.		Pore Lining, M=Matrix.  roblematic Hydric Soils³:
		cable to al				IDDCT		•
Histoso	Epipedon (A2)		☐ Polyvalue Be☐ Thin Dark S				· —	(A10) (LRR S)
I <b>=</b>	Histic (A3)		Loamy Mucl					ertic (F18) (outside MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gley	-		,		oodplain Soils (F19) (LRR P, S, T)
	ed Layers (A5)		Depleted Ma					Bright Loamy Soils (F20)
	c Bodies (A6) (LRR		Redox Dark		•		(MLRA 15	•
	lucky Mineral (A7) <b>(L</b> Presence (A8) <b>(LRR</b>		Depleted Da		` '		<u> </u>	Material (TF2) v Dark Surface (TF12)
	luck (A9) <b>(LRR P, T)</b>		Marl (F10) (I	•	-0)			ain in Remarks)
	ed Below Dark Surfa		Depleted Oc		) <b>(MLRA</b> 1	151)	Carron (Explic	in nonancy
_	Oark Surface (A12)		☐ Iron-Mangar	nese Mas	ses (F12)	(LRR O, F	P, T) <sup>3</sup> Indicators	of hydrophytic vegetation and
_	Prairie Redox (A16)		• =					nydrology must be present,
_	Mucky Mineral (S1)	(LRR O, S)						sturbed or problematic.
_	Gleyed Matrix (S4) Redox (S5)		Reduced Ve					
_	d Matrix (S6)						.RA 149A, 153C, 153I	D)
_	urface (S7) (LRR P,	S, T, U)			<b>,</b>	(·/ <b>(</b>	,,	-,
Restrictive	Layer (if observed	):						
Type:			<u></u>					V
Depth (ir	nches):						Hydric Soil Prese	ent? Yes X No
Remarks:	Judria agil wa	o proce	nt					
Г	Hydric soil was	s prese	nt.					
1								

Project/Site: San Jose Island City/C	County: Aransas County Sampling Date: 11/11/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: WD10BPH_SJ
BPH	Ν/Δ
Landform (hillslope terrace etc.): Barrier island - flat low marsh	rollief (conseque convex none): None Slone (%): 1-2
Subragian (LRR or MLRA): LRR T / MLRA 150B Lat. 27.87526	.8 Lang97.031259 Detum: NAD83
Landform (hillslope, terrace, etc.): Barrier island - flat low marsh Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.87526 Soil Map Unit Name: Beaches	blad Lorge F2USP
Soil Map Unit Name: Dodonos	NVVI classification:O
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $\underline{N}$ , Soil $\underline{N}$ , or Hydrology $\underline{N}$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present? Yes X No	Is the Sampled Area
Hydric Soil Present?         Yes X         No           Wetland Hydrology Present?         Yes X         No	within a Wetland? Yes X No
Remarks:	
The sampled area was determined to be within a w	vetland due to the presence of dominant
hydrophytic vegetation, hydric soil, and wetland hy	·
	<b>.</b> ,
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	
Surface Water (A1) Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRF	
□ Saturation (A3)           □ Hydrogen Sulfide Odor (Continuo Natural Sulfide Sulfide Odor (Continuo Natura Sulfide Odor (Continuo Natura Sulfide Odor (Continuo Natura Su	
Sediment Deposits (B2)  Presence of Reduced Iron	
Drift Deposits (B3)  Recent Iron Reduction in	
Algal Mat or Crust (B4) Thin Muck Surface (C7)	✓ Geomorphic Position (D2)
Iron Deposits (B5)	(s) Shallow Aquitard (D3)
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
Water-Stained Leaves (B9)	Sphagnum moss (D8) (LRR T, U)
Field Observations:	
Surface Water Present? Yes No X Depth (inches):	
Water Table Present?  Yes No X Depth (inches):  Saturation Present?  Yes No X Depth (inches):	Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	
Wettaria frydrology was present.	

		Dominant		Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Developt of Development Conscion
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	20 /0 01	total cover		FAC species x 3 =
				FACU species x 4 =
1			-	UPL species x 5 =
2.				Column Totals: (A) (B)
3				(-)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	:	Troblematic Tryalophytic Vogetation (Explain)
Herb Stratum (Plot size: 30'x30' )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Sarcocornia ambigua	35	Υ	OBL	be present, unless disturbed or problematic.
2. Distichlis littoralis	20	Y	OBL	Definitions of Four Vegetation Strata:
3. Batis maritima	15	<u>Y</u>	OBL	Deminions of Four Vogetation Grata.
~- <del></del>				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of height.
5				noight
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11.				height.
12.				
	70	= Total Cov	ver	
50% of total cover: 35				
Woody Vine Stratum (Plot size:)	2070 01	10101 00101		
1				
2			-	
3				
4				
5			-	Hydrophytic
		= Total Cov	ver	Vegetation
50% of total cover:	20% of	total cover	·	Present? Yes X No
Remarks: (If observed, list morphological adaptations below	ow).			
Dominant hydrophytic vegetation was p	recent			
Dominant hydrophytic vegetation was p	nesent.			

Sampling Point: WD10BPH\_SJI

SOIL Sampling Point: WD10BPH\_SJI

Profile Des	cription: (Describe	to the dep				or confir	m the absence of inc	dicators.)	
Depth (inches)	Matrix	%		x Featur	es Type <sup>1</sup>	Loc <sup>2</sup>	- Toyturo	Domorko	
(inches) 0-6	Color (moist) 10YR 7/3	98	Color (moist) 10YR 7/8	2	C Type	_ <u></u> М	<sub>Texture</sub> Sand	Remarks	_
6-12				2					
	10YR 6/3	98	10YR 7/8		_ <u>C</u>	_ <u>M</u>	Sand		
12-18	10YR 6/4	98	10YR 7/8	2	<u>C</u>	M	Sand		
							<u> </u>		
							·		_
<sup>1</sup> Type: C=C	oncentration D=De	nletion RM	=Reduced Matrix, M	S=Maske	ed Sand G	rains	<sup>2</sup> Location: PL =F	Pore Lining, M=Matrix	<u> </u>
			LRRs, unless other			raino.		roblematic Hydric S	
Histoso			Polyvalue Be			LRR S, T,		A9) <b>(LRR O)</b>	
1 =	pipedon (A2)		Thin Dark Su				·	A10) <b>(LRR S)</b>	
_	istic (A3)		Loamy Muck	-		R O)		rtic (F18) (outside N	
	en Sulfide (A4)		Loamy Gleye		(F2)			oodplain Soils (F19)	
	d Layers (A5) : Bodies (A6) <b>(LRR I</b>	эт 11\	Depleted Ma	. ,	(E6)		Anomalous I	Bright Loamy Soils (F	-20)
	ucky Mineral (A7) <b>(L</b>		=		` '			Material (TF2)	
	resence (A8) (LRR I		Redox Depre		` ,			v Dark Surface (TF1:	2)
1 cm M	uck (A9) <b>(LRR P, T)</b>		<u> </u>				Other (Expla	in in Remarks)	
I = I	d Below Dark Surfac	ce (A11)	Depleted Oc	•	, <b>.</b>	•	3		
· =	ark Surface (A12) <sup>v</sup> rairie Redox (A16) <b>(</b>	MI DA 150	Iron-Mangan ☐ Umbric Surfa					of hydrophytic veget nydrology must be pr	
	Mucky Mineral (S1) (		Delta Ochric					sturbed or problemat	
	Gleyed Matrix (S4)		Reduced Ve					otal sou of prositional	
	Redox (S5)		Piedmont Flo						
_	d Matrix (S6)		Anomalous E	Bright Loa	amy Soils	(F20) <b>(ML</b>	RA 149A, 153C, 153I	D)	
	urface (S7) (LRR P,								
	Layer (if observed)	).							
Type:	ches):		<del></del> ,				Hydric Soil Pres	ent? Yes X	No
Remarks:			<del></del>				Tryunc 3011 Test	ent: 165	
Nemarks.	lydric soil was	s preser	nt.						
		•							

Project/Site: San Jose Island	City/County: Aran	sas County	Sampling Date: 10/21/202
Applicant/Owner: Port of Corpus Christi Authority	- , , <u></u>	State: TX	Sampling Point: WD11BPH_3
Investigator(s): BPH	Section Township	Range: N/A	
Landform (hillslope, terrace, etc.): Barrier island - palustrine wetland	Local relief (concav	e, convex, none): Undula	ting Slope (%): 5-7
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.8	369924 `	Long: -97.033442	Datum: NAD8
Soil Map Unit Name: Beaches		NWI classific	cation: None
Are climatic / hydrologic conditions on the site typical for this time of y	year? Yes X No	o (If no, explain in R	temarks.)
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ significantly	ly disturbed? A		
Are Vegetation $\overline{N}$ , Soil $\overline{N}$ , or Hydrology $\overline{N}$ naturally positive $\overline{N}$	roblematic? (I	f needed, explain any answe	
SUMMARY OF FINDINGS – Attach site map showin		· · · · ·	,
		· · · · · · · · · · · · · · · · · · ·	<u> </u>
Hydrophytic Vegetation Present? Yes X No No			
Wetland Hydrology Present? Yes X No		tland? Yes X	No
Remarks:	-		
The sampled area was determined to be withi	in a wetland du	ie to the presence	of dominant
hydrophytic vegetation, hydric soil, and wetlar		de to the presence	or dominant
Trydrophytio vogotation, frydrio 3011, and wettar	ia riyarology.		
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	)	🔲 Surface Soil	Cracks (B6)
Surface Water (A1) Aquatic Fauna (B	13)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)  High Warl Deposits (B1	15) <b>(LRR U)</b>	<u></u> ☑ Drainage Pa	tterns (B10)
Saturation (A3) Hydrogen Sulfide	, ,		· · ·
☐ Water Marks (B1) ☐ Oxidized Rhizosp	heres along Living Ro	oots (C3) $\coprod$ Dry-Season	Water Table (C2)
Sediment Deposits (B2)	, ,	Crayfish Bur	, ,
	iction in Tilled Soils (C		isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	, ,	_	Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in	Remarks)	☐ Shallow Aqu	, ,
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral	` '
☐ Water-Stained Leaves (B9)		<u></u> Sphagnum n	noss (D8) <b>(LRR T, U)</b>
Field Observations:			
	es):		
Water Table Present?  Yes No _X Depth (inchest)			X
Saturation Present? Yes No X Depth (inchest (includes capillary fringe)	es):	Wetland Hydrology Preser	nt? Yes <u>^</u> No
Describe Recorded Data (stream gauge, monitoring well, aerial pho	tos, previous inspection	ons), if available:	
Remarks:			
Wetland hydrology was present.			

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Description of Description of Control
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Cov		OBL species x 1 =
FOO/ - 54-4-1				FACW species x 2 =
50% of total cover:	20% 01	total cover		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				Column rotals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8.				
<u> </u>		= Total Cov		3 - Prevalence Index is ≤3.0¹
FOOV of total across				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% of	total cover	:	
Herb Stratum (Plot size: 30'x30' )	20	V	EACW/	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Spartina patens	30	Y	FACW	be present, unless disturbed or problematic.
2. Distichlis spicata	20	Y	OBL	Definitions of Four Vegetation Strata:
3. Fimbristylis castanea	20	<u>Y</u>	OBL	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4				more in diameter at breast height (DBH), regardless of
5				height.
6.				Sapling/Shrub – Woody plants, excluding vines, less
7.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8.				
				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9				or size, and woody plants less than 5.20 it tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11				height.
12	70			
0.5		= Total Cov		
50% of total cover: <u>35</u>	20% of	total cover	: 14	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4.				
5.				the described to
·		= Total Cov	··or	Hydrophytic Vegetation
EOO/ of total across				Present? Yes X No
50% of total cover:		total cover	:	
Remarks: (If observed, list morphological adaptations below	ow).			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: WD11BPH\_SJI

SOIL Sampling Point: WD11BPH\_SJI

Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the	indicator	or confir	m the absence of indi	ators.)	
Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Feature %	es Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks	
0-4	10YR 7/2	100	Color (moist)		туре		Loamy sand	Nemarks	
4-16	10YR 7/2	98	10YR 5/8	2	<u>C</u>	M	Loamy sand		
16-18	10YR 7/1	90	10YR 5/8	10	- <del>C</del>	M	Loamy sand		
10-10	1011/11	90	10113/6	10		- IVI	Loanly sand		
	-			-	_	-			
			_						
l							. <u></u>		
			=Reduced Matrix, MS			rains.		re Lining, M=Matrix.	3
		able to all	LRRs, unless other					blematic Hydric Soils	s":
Histosol	i (A1) pipedon (A2)		☐ Polyvalue Be☐ Thin Dark Su				<b>U)</b>		
1 <del></del>	istic (A3)		Loamy Muck					c (F18) <b>(outside MLR</b>	A 150A,B)
	en Sulfide (A4)		Loamy Gleye	-			Piedmont Floo	odplain Soils (F19) <b>(LR</b>	R P, S, T)
	d Layers (A5)		Depleted Ma					ight Loamy Soils (F20)	)
_	: Bodies (A6) <b>(LRR F</b> ucky Mineral (A7) <b>(L</b> l		Redox Dark : Depleted Dai	,			(MLRA 153I		
	resence (A8) <b>(LRR L</b>		Redox Depre		` '		-	Dark Surface (TF12)	
	uck (A9) (LRR P, T)	•	Marl (F10) <b>(</b> L	.RR U)	,		Other (Explain		
I = '	d Below Dark Surfac	e (A11)	Depleted Ocl	•	•	•	3		
-	ark Surface (A12) <sup>v</sup> rairie Redox (A16) <b>(</b>	MI RA 150	☐ Iron-Mangan A) ☐ Umbric Surfa					hydrophytic vegetation hydrology must be presented hydrology must be presented hydrology must be presented hydrology.	
	Mucky Mineral (S1) <b>(</b>		Delta Ochric				•	urbed or problematic.	111,
Sandy 0	Gleyed Matrix (S4)		Reduced Ver	tic (F18)	(MLRA 1	50A, 150B		·	
	Redox (S5)		Piedmont Flo						
	d Matrix (S6) urface (S7) <b>(LRR P, :</b>	S. T. U)	Anomalous E	Bright Loa	amy Soils	(F20) <b>(MLI</b>	RA 149A, 153C, 153D)		
	Layer (if observed)								
Type:									
Depth (in	ches):						Hydric Soil Preser	t? Yes X N	o
Remarks:	ludria aail uuaa		.1				•		
	lydric soil was	preser	II.						

Project/Site: San Jose Island City/C	ounty: Aransas County	Sampling Date: 10/21/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX	Sampling Point: WD12BPH_SJI
Investigator/s): BPH Section	n Township Pango: N/A	-
Landform (hillslope, terrace, etc.): Barrier island - high marsh wetland Local Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.87060: Soil Map Unit Name: Beaches	relief (concave, convex, none). None	Slope (%): 0-1
Subragian (I BB at MI BA); LRR T / MLRA 150B Lat. 27.87060	3 Langui -97.034821	Slope (%)
Subregion (LRR of MLRA). State 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Long. Children Constitution	E2USP
Soil Map Unit Name: Dodorios	X NVI classificat	tion: <u>LZOO</u>
Are climatic / hydrologic conditions on the site typical for this time of year? You		
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	oed? Are "Normal Circumstances" pre	· · · · · · · · · · · · · · · · · · ·
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problema	itic? (If needed, explain any answers	in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects,	important features, etc.
Hydrophytic Vegetation Present? Yes X No		
Hydric Soil Present?         Yes X         No           Wetland Hydrology Present?         Yes X         No	Is the Sampled Area within a Wetland? Yes X	No
Wetland Hydrology Present? Yes X No	within a wetland?	NO
Remarks:		
The sampled area was determined to be within a w	•	f dominant
hydrophytic vegetation, hydric soil, and wetland hy	drology.	
HYDROLOGY		
Wetland Hydrology Indicators:		ors (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil C	, ,
Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Marl Deposits (B15) (LRF	<del>_</del> ' ' ' '	etated Concave Surface (B8)
High Water Table (A2) Saturation (A3)  Hydrogen Sulfide Odor (C		
Water Marks (B1)  Water Marks (B1)  Oxidized Rhizospheres al		/ater Table (C2)
Sediment Deposits (B2)  Presence of Reduced Iron		· ·
Drift Deposits (B3)  Recent Iron Reduction in		ible on Aerial Imagery (C9)
Algal Mat or Crust (B4) Thin Muck Surface (C7)	Geomorphic P	=
☐ Iron Deposits (B5) ☐ Other (Explain in Remark		
Inundation Visible on Aerial Imagery (B7)	🗹 FAC-Neutral T	est (D5)
Water-Stained Leaves (B9)	☐ Sphagnum mc	oss (D8) (LRR T, U)
Field Observations:		
Surface Water Present? Yes No X Depth (inches):		
Water Table Present? Yes No X Depth (inches):		V
Saturation Present? Yes No X Depth (inches): (includes capillary fringe)	Wetland Hydrology Present	? Yes <sup>X</sup> No
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre-	l vious inspections), if available:	
Remarks:		
Wetland hydrology was present.		

		Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size:)		Species?		Number of Dominant Species		
1				That Are OBL, FACW, or FAC: 2 (A)		
2				Total Number of Dominant		
3				Species Across All Strata: 2 (B)		
4				Dansont of Dansin and Conscient		
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)		
6				(VB)		
7.				Prevalence Index worksheet:		
8.				Total % Cover of: Multiply by:		
·		= Total Co		OBL species x 1 =		
EON of total cover				FACW species x 2 =		
50% of total cover:	20% 01	i total cover	•	FAC species x 3 =		
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =		
1				UPL species x 5 =		
2				Column Totals: (A) (B)		
3				Column rotals (A) (B)		
4				Prevalence Index = B/A =		
5				Hydrophytic Vegetation Indicators:		
6				1 - Rapid Test for Hydrophytic Vegetation		
7.				X 2 - Dominance Test is >50%		
8.				l <del></del>		
		= Total Co		3 - Prevalence Index is ≤3.0¹		
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)		
Herb Stratum (Plot size: 30'x30' )	20 /6 01	i lolai covei	•			
Dr. e. i.e. eo. e	40	Υ	OBL	Indicators of hydric soil and wetland hydrology must		
1.0	20	Y	OBL	be present, unless disturbed or problematic.		
2. Sarcocornia ambigua				Definitions of Four Vegetation Strata:		
3. Sporobolus virginicus	10	N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or		
4. Sesuvium portulacastrum	5	<u>N</u>	FACW	more in diameter at breast height (DBH), regardless o		
5. Suaeda linearis	5	N	OBL	height.		
6				Sapling/Shrub – Woody plants, excluding vines, less		
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.		
8				Harb All berbasses (non woods) plants regardless		
9.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.		
10				<b>Woody vine</b> – All woody vines greater than 3.28 ft in		
11				height.		
12	80					
40		= Total Co				
50% of total cover: 40	20% of	f total cover	: 10			
Woody Vine Stratum (Plot size:)						
1						
2						
3						
4						
5				Hydrophytic		
		= Total Co	ver	Vegetation		
50% of total cover:				Present? Yes X No		
Remarks: (If observed, list morphological adaptations believed)		10101 00101				
	•					
Dominant hydrophytic vegetation was p	resent.					

Sampling Point: WD12BPH\_SJI

SOIL Sampling Point: WD12BPH\_SJI

Profile Desc	cription: (Describe	to the depth	needed to docu	ment the i	ndicator	or confirm	n the absence of in	dicators.)	
Depth	Matrix		Redox Features						
(inches) 0-18	Color (moist) 10YR 6/2	- <u>%</u> -	Color (moist) 10YR 5/8	- <u>%</u> - 5	Type <sup>1</sup>	Loc <sup>2</sup> M	Texture  Loamy sand	Remarks	
0-10	1011 0/2	_ 95 _	1011 3/6		<u> </u>	IVI	Loanly sand		
									,
						-			
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM=F	Reduced Matrix, M	S=Masked	d Sand G	rains.	<sup>2</sup> Location: PL=I	Pore Lining, M=Matrix.	
Hydric Soil	Indicators: (Appli	cable to all L	RRs, unless othe	rwise not	ed.)		Indicators for P	Problematic Hydric Soils <sup>3</sup> :	
☐ Histosol	(A1)		Polyvalue Be	elow Surfa	ce (S8) <b>(</b>	LRR S, T,	<b>U)</b> 1 cm Muck	(A9) <b>(LRR O)</b>	
Histic E	oipedon (A2)		Thin Dark Su	urface (S9)	(LRR S	, T, U)		(A10) <b>(LRR S)</b>	
_	stic (A3)		Loamy Muck	-		R O)		ertic (F18) (outside MLRA	
	en Sulfide (A4)		Loamy Gleye		F2)			loodplain Soils (F19) (LRR	P, S, T)
	d Layers (A5)	. T III	Depleted Ma		-0)			Bright Loamy Soils (F20)	
	Bodies (A6) (LRR I ucky Mineral (A7) (L		Depleted Da	`	,		(MLRA 15	мaterial (TF2)	
	esence (A8) <b>(LRR I</b>		Redox Depre					w Dark Surface (TF12)	
	uck (A9) <b>(LRR P, T)</b>	-,	Marl (F10) (L		<b>O</b> )			ain in Remarks)	
	d Below Dark Surfac	ce (A11)	Depleted Oc		(MLRA 1	51)		,	
Thick Da	ark Surface (A12)		☐ Iron-Mangan	ese Mass	es (F12)	(LRR O, P	, <b>T)</b> <sup>3</sup> Indicators	of hydrophytic vegetation	and
	rairie Redox (A16) <b>(</b>		_					hydrology must be present,	,
	Mucky Mineral (S1)	LRR O, S)	Delta Ochric					isturbed or problematic.	
	Gleyed Matrix (S4)		Reduced Ve						
	Redox (S5) I Matrix (S6)		Piedmont Flo				49A) RA 149A, 153C, 153	D)	
	rface (S7) <b>(LRR P,</b>	S T II)	Anomalous i	origini Loai	ny Sons	(FZU) <b>(IVIL</b> F	RA 149A, 153C, 153	יט	
	Layer (if observed)								
Type:	.,	'							
	ches):						Hydric Soil Pres	ent? Yes X No	
Remarks:							1 .,		
H	ydric soil was	present							
	•	•							

Project/Site: San Jose Island Cit	<sub>tv/County:</sub> Aransas County	Sampling Date: 10/21/2021
Applicant/Owner: Port of Corpus Christi Authority	ty/County: Aransas County State: TX	Sampling Point: WD13BPH_SJI
Investigator(s): BPH	ection, Township, Range: N/A	
Landform (hillslope, terrace, etc.): Barrier island - depression Lo	ocal relief (concave, convex, none); Conca	ve <sub>Slope (%):</sub> 1-2
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.865	403 Long: -97.037025	Datum: NAD83
Investigator(s): BPH  Landform (hillslope, terrace, etc.): Barrier island - depression  Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.865  Soil Map Unit Name: Beaches	NWI classifi	ication: None
Are climatic / hydrologic conditions on the site typical for this time of year'	2 Yes X No (If no explain in t	Remarks )
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	omatic? (If pooded, explain any answ	ore in Pomarke )
SUMMARY OF FINDINGS – Attach site map showing s		
		-, -
Hydrophytic Vegetation Present?  Yes X  No	Is the Sampled Area	
Hydric Soil Present?  Wetland Hydrology Present?  Yes X  No  Yes X  No	within a Wetland? Yes X	No
Remarks:		
The sampled area was determined to be within a	a wetland due to the presence	of dominant
hydrophytic vegetation, hydric soil, and wetland	•	or dominant
Try arophysic vogotation, rry ario con, aria wouldn't	nyarology.	
HYDROLOGY		
Wetland Hydrology Indicators:		cators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)		il Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)  And Bassaita (B45) (14)	<del></del>	egetated Concave Surface (B8)
☑ High Water Table (A2)       ☐ Marl Deposits (B15) (I         ☑ Saturation (A3)       ☐ Hydrogen Sulfide Odd		atterns (B10)
1 <del></del>		n Water Table (C2)
Sediment Deposits (B2)  Presence of Reduced		i i
Drift Deposits (B3)	n in Tilled Soils (C6)	Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	·	c Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Rem	_	, ,
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	FAC-Neutra	moss (D8) <b>(LRR T, U)</b>
Field Observations:	Эрпаупип	111055 (D0) (LKK 1, U)
Surface Water Present? Yes No X Depth (inches): _		
Water Table Present? Yes X No Depth (inches):	10	
Saturation Present? Yes X No Depth (inches):	6 Wetland Hydrology Prese	ent? Yes X No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos,	previous inspections) if available:	
Describe Nestriced Bata (stream gauge, monitoring well, acrtal photos,	provides inspections), in available.	
Remarks:		
Wetland hydrology was present.		
, 3, 1		

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				Total Number of Dominant
3				Species Across All Strata: 3 (B)
4				Dansont of Dansin and Conscient
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(VB)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Co		OBL species x 1 =
FOOV of total across				FACW species x 2 =
50% of total cover:	20% 01	total cove	·	FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2		-		Column Totals: (A) (B)
3				Column rotals (A) (B)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8.				<del></del>
		= Total Co		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
Herb Stratum (Plot size: 30'x30' )	20 /6 01	i lolai cove	·	
1. Fimbristylis castanea	38	Υ	OBL	Indicators of hydric soil and wetland hydrology must
	37	Y	FACW	be present, unless disturbed or problematic.
2. Paspalum monostachyum	- ——			Definitions of Four Vegetation Strata:
3. Iva frutescens	20	Y	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Andropogon glomeratus	5	N	FACW	more in diameter at breast height (DBH), regardless of
5				height.
6				Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				Herb – All herbaceous (non-woody) plants, regardless
9.				of size, and woody plants less than 3.28 ft tall.
10.				
				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
11			· ——	height.
12	100			
50		= Total Co		
50% of total cover: <u>50</u>	20% of	total cove	r: <u>20</u>	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Co	ver	Vegetation
50% of total cover:	20% of	f total cove	r:	Present? Yes X No
Remarks: (If observed, list morphological adaptations below				
	•			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: WD13BPH\_SJI

SOIL Sampling Point: WD13BPH\_SJI

		to the de				r or confir	rm the absence of in	dicators.)	
Depth (inches)	Matrix Color (moist)	%	Redo	x Featur %	es Type <sup>1</sup>	Loc <sup>2</sup>	_ Texture	Remarks	
0-14	10YR 6/2	95	10YR 4/6	5	C C	<u></u> M	Loamy sand	Remains	
14-18	10YR 6/1	98	10YR 4/6	2	- <del>C</del>		Loamy sand		
14-10	10111 0/1		10111 -1/0				Loanly Jana		
-				-					
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM	I=Reduced Matrix, M	S=Maske	ed Sand G	irains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matrix	<b>(.</b>
Hydric Soil	Indicators: (Appli	cable to al	LRRs, unless othe	rwise no	ted.)		Indicators for F	Problematic Hydric S	ioils³:
Histoso			Polyvalue Be				· -	(A9) (LRR O)	
_	pipedon (A2)		Thin Dark Su	•				(A10) <b>(LRR S)</b> ertic (F18) <b>(outside M</b>	II DA 150A D\
_	listic (A3) en Sulfide (A4)		Loamy Gley	•	. , .	K O)		ertic (F18) <b>(outside W</b> Ioodplain Soils (F19) (	
	d Layers (A5)		Depleted Ma		(. –)			Bright Loamy Soils (F	
	Bodies (A6) (LRR I		Redox Dark		` '		(MLRA 1		
_	ucky Mineral (A7) <b>(L</b>		. =		` '			: Material (TF2)	
	resence (A8) <b>(LRR</b> l uck (A9) <b>(LRR P, T)</b>		Redox Depre	•	F8)			ow Dark Surface (TF12 lain in Remarks)	2)
	d Below Dark Surfa		Depleted Oc		) (MLRA	151)	Other (Expi	alli ili ivelliaiks)	
· =	ark Surface (A12)	,	☐ Iron-Mangar	•	, <b>.</b>	•	P, T) <sup>3</sup> Indicators	s of hydrophytic vegeta	ation and
	Prairie Redox (A16)							hydrology must be pre	
	Mucky Mineral (S1) Gleyed Matrix (S4)	(LRR O, S)						listurbed or problemat	ic.
_	Redox (S5)		Reduced Ve						
	d Matrix (S6)						.RA 149A, 153C, 153	BD)	
	urface (S7) (LRR P,								
	Layer (if observed	):							
Type:								X	
	iches):						Hydric Soil Pres	sent? Yes X	No
Remarks:	lydric soil was	s presei	nt						
•	ryano con wa	, p. 000.	10.						

Project/Site: San Jose Island City/C	county: Aransas County Sampling Date: 10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	State: TX Sampling Point: WD14BPH_SJI
••	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - depression Local	relief (concave, convey, none). Concave
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.86020	0   -97.038763   Detum: NAD83
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	bed? Are "Normal Circumstances" present? Yes X No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	
Hydric Soil Present?         Yes X         No           Wetland Hydrology Present?         Yes X         No	Is the Sampled Area within a Wetland? Yes X No
Wetland Hydrology Present? Yes X No	within a Wetland! Tes NO
Remarks:	
The sampled area was determined to be within a w	•
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HADBOLOGA	
HYDROLOGY Westernd Hydrology Indicators:	Coordan, Indicators (minimum of two year in d)
Wetland Hydrology Indicators:  Primary Indicators (minimum of one is required; check all that apply)	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRF	
Saturation (A3) Hydrogen Sulfide Odor (C	
☐ Water Marks (B1) ☐ Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iro	n (C4)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	<del>-</del>
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
☐ Water-Stained Leaves (B9)  Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes X No Depth (inches): 2" at	pove surface
Water Table Present?  Yes X No Depth (inches): at s	
Saturation Present? Yes X No Depth (inches): at s	
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	
Wettaria riyarology was present.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				Total Number of Dominant
3				Species Across All Strata: 1 (B)
4				Dansont of Dansin and Conscient
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				(VB)
7.				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
·		= Total Cov		OBL species x 1 =
50% of total cover:				FACW species x 2 =
	20 /6 01	iolai covei		FAC species x 3 =
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				Column Totals (71) (8)
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:				Problematic Hydrophytic vegetation (Explain)
Herb Stratum (Plot size: 30'X30' )	20 70 01	10101 00101	· ——	1
1. Spartina patens	60	Υ	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
2. Schizachyrium scoparium	15	<u>.</u> N	FACU	
3. Phyla nodiflora	11	N	FACW	Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Conoclinium coelestinum	_ 10	N	FAC	more in diameter at breast height (DBH), regardless of
5. Iva annua	_ 2	N	FAC	height.
6. Fimbristylis castanea	2	<u>N</u>	OBL	Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Was tasks All I i I I I O OO S :
11.				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
12.				noight.
12.	100	= Total Cov	/or	
50% of total cover: 50	20% of			
	20% 0	total cover		
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	/er	Vegetation
50% of total cover:	20% of	total cover	:	Present? Yes X No
Remarks: (If observed, list morphological adaptations believed)				
	•			
Dominant hydrophytic vegetation was p	resent.			

Sampling Point: WD14BPH\_SJI

SOIL Sampling Point: WD14BPH\_SJI

Profile Desc	cription: (Describe	to the dept	h needed to docu	ment the i	indicator	or confirm	m the absence	of indicate	ors.)	
Depth	Matrix								_	
(inches)	Color (moist)		Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>			<u>Texture</u>	O	Remarks		
0-20	2.5Y 5/2	90	5YR 4/6	10	<u>C</u>	M	Loamy sand	Organic	c staining p	present
							. <u> </u>			
							· -			
						·	·			
	-					<del></del>	· -			
	-						·			
<sup>1</sup> Type: C=C	oncentration, D=De	pletion, RM=	Reduced Matrix, M	S=Masked	d Sand G	rains.	<sup>2</sup> Location:	PL=Pore L	ining, M=Matri	х.
Hydric Soil	Indicators: (Appli	cable to all l	RRs, unless othe	rwise not	ed.)		Indicators	for Proble	matic Hydric	Soils³:
Histoso	(A1)		Polyvalue Be	elow Surfa	ce (S8) <b>(</b> I	LRR S, T,	<b>U)</b> <u>□</u> 1 cm N	/luck (A9) <b>(L</b>	.RR O)	
Histic E	pipedon (A2)		Thin Dark Su	urface (S9	) (LRR S	T, U)		/luck (A10)		
_	istic (A3)		Loamy Muck	-		R O)		•	, ,	MLRA 150A,B)
_	en Sulfide (A4)		Loamy Gleye		(F2)		_	•	, ,	(LRR P, S, T)
	d Layers (A5)	D T 11\	Depleted Ma		-6)			_	Loamy Soils (	F20)
	Bodies (A6) <b>(LRR I</b> ucky Mineral (A7) <b>(L</b>		Depleted Da	`	,		, i	<b>RA 153B)</b> arent Mater	ial (TF2)	
	resence (A8) <b>(LRR</b>		Redox Depre						Surface (TF1	2)
	uck (A9) <b>(LRR P, T)</b>		Marl (F10) (L	,	-,			Explain in f		_,
	d Below Dark Surfa		Depleted Oc		(MLRA 1	51)	<del></del>		ŕ	
Thick D	ark Surface (A12)		☐ Iron-Mangar	ese Mass	es (F12)	(LRR O, P		-	drophytic veget	
	rairie Redox (A16)							-	ogy must be pr	
	Mucky Mineral (S1)	(LRR O, S)	Delta Ochric					ess disturbe	d or problema	tic.
	Gleyed Matrix (S4) Redox (S5)		Reduced Ve							
	d Matrix (S6)					•	49A) RA 149A, 153C	153D)		
_	urface (S7) (LRR P,	S, T, U)		ongni Loai	,	(. 20) <b>(2</b> .		, 1002,		
	Layer (if observed									
Type:										
Depth (in	ches):						Hydric Soil	Present?	Yes X	No
Remarks:										
H	lydric soil was	s present	i. <b>.</b>							

Project/Site: San Jose Island	ity/County: Aransas Cou	inty	Sampling Date:	10/18/2021
Applicant/Owner: Port of Corpus Christi Authority	s			
Investigator(s): JLM, BPH  Landform (hillslope, terrace, etc.): Barrier island - depression	ocal relief (concave, convex, r	none): Concave	e Slor	oe (%): 3-5
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.85	5470 Long: -9	7.040715	Da	ntum: NAD83
Soil Map Unit Name: Beaches	25/ig	NWI classifica	<sub>ition:</sub> None	
Are climatic / hydrologic conditions on the site typical for this time of year				
Are Vegetation $\underline{N}$ , Soil $\underline{N}$ , or Hydrology $\underline{N}$ significantly d				No
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally prob	lematic? (If needed, ex	xplain any answers		
SUMMARY OF FINDINGS – Attach site map showing			,	eatures, etc.
			<u> </u>	
Hydrophytic Vegetation Present? Yes X No Hydric Soil Present? Yes X No	Is the Sampled Area	V		
Wetland Hydrology Present? Yes X No	within a Wetland?	Yes X	No	_
Remarks:				
The sampled area was determined to be within	a wetland due to the	nresence c	of dominant	ŀ
hydrophytic vegetation, hydric soil, and wetland		, presence e	n dominani	•
Trydrophytic vegetation, frydrio 3011, and wettand	nydrology.			
HYDROLOGY				
Wetland Hydrology Indicators:		Secondary Indicate	ors (minimum of	two required)
Primary Indicators (minimum of one is required; check all that apply)		Surface Soil C	Cracks (B6)	
Surface Water (A1) Aquatic Fauna (B13)		Sparsely Vege	etated Concave	Surface (B8)
High Water Table (A2)  Marl Deposits (B15)	(LRR U)	Drainage Patt	erns (B10)	
Saturation (A3) Hydrogen Sulfide Oc	lor (C1)	Moss Trim Lin	ies (B16)	
☐ Water Marks (B1) ☐ Oxidized Rhizospher	res along Living Roots (C3)	Dry-Season V	Vater Table (C2)	ı
Sediment Deposits (B2)  Presence of Reduce	d Iron (C4)	Crayfish Burro	ows (C8)	
☐ Drift Deposits (B3) ☐ Recent Iron Reduction	on in Tilled Soils (C6)	Saturation Vis	ible on Aerial <b>I</b> m	nagery (C9)
Algal Mat or Crust (B4)	C7)	Geomorphic F	Position (D2)	
☐ Iron Deposits (B5) ☐ Other (Explain in Re	marks)	Shallow Aquita	ard (D3)	
Inundation Visible on Aerial Imagery (B7)		FAC-Neutral 1	` '	
Water-Stained Leaves (B9)			oss (D8) <b>(LRR T</b>	ʻ, U)
Field Observations:				
Surface Water Present? Yes X No Depth (inches):				
Water Table Present? Yes X No Depth (inches):	at surface			
Saturation Present? Yes X No Depth (inches):	at surface Wetland H	ydrology Present	? Yes X	No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos	nrevious inspections) if avai	lable.		
Describe Nescribed Bata (Stream gauge, monitoring well, dental photos	, providuo inopediionoj, ii dvai	abic.		
Remarks:				
Wetland hydrology was present.				
Welland hydrology was present.				

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Descent of Descinant Charles
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
		= Total Cov		OBL species x 1 =
50% of total cover:	20% o	f total cover	:	FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)				FAC species x 3 =
				FACU species x 4 =
1				UPL species x 5 =
2				Column Totals: (A) (B)
3				
4				Prevalence Index = B/A =
5				Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% o	f total cover	:	
Herb Stratum (Plot size: 30'x30' )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Paspalum monostachyum	40	<u>Y</u>	FACW	be present, unless disturbed or problematic.
2. Paspalum dilatatum	20	Υ	FAC	Definitions of Four Vegetation Strata:
3. Hydrocotyle bonariensis	12	N	FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
4. Schizachyrium scoparium	10	N	FACU	more in diameter at breast height (DBH), regardless of
5. Cyperus esculentus	10	N	FAC	height.
6. Eleocharis montevidensis	5	N	FACW	Sapling/Shrub – Woody plants, excluding vines, less
7. Iva annua	2	N	FAC	than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8 Opuntia stricta	1	N	UPL	
9.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
10				
				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
11				height.
12	100			
50% (1.1.1		= Total Cov		
	20% o	r total cover	:	
Woody Vine Stratum (Plot size:)				
1				
2				
3				
4				
5				Hydrophytic
		= Total Cov	/er	Vegetation
50% of total cover:	20% o	f total cover	:	Present? Yes X No
Remarks: (If observed, list morphological adaptations bel	ow).			
Dominant hydrophytic vegetation was p	resent			
Dominant hydrophytic vegetation was p	JI COCITI.			

Sampling Point: WD15BPH\_SJI

SOIL Sampling Point: WD15BPH\_SJI

Profile Desc	ription: (Describe	to the depth	n needed to docur	nent the	indicator	or confirm	n the absence	of indicate	ors.)	
Depth	Matrix			x Feature	s					
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	<u>Loc<sup>2</sup></u>	<u>Texture</u>		Remarks	
0-2	10YR 4/2	100					Loamy sand			
2-20	10YR 5/2	95	10YR 5/6	5	С	M/PL	Loamy sand	Organi	c streaking	present
									_	
		<del></del>		· ———				-		
										_
				· '						
	-			·						
<u> </u>	-			·		<del></del>				
	oncentration, D=De <sub>l</sub>					rains.			ining, M=Matri	
	Indicators: (Applic	cable to all L					_	for Proble	matic Hydric	Soils³:
Histosol	(A1)		Polyvalue Be					Иuck (A9) <b>(L</b>		
Histic Ep	oipedon (A2)		Thin Dark Su	ırface (S9	) (LRR S	, T, U)		Muck (A10)		
Black Hi			Loamy Muck	-		R O)		•		MLRA 150A,B)
	n Sulfide (A4)		Loamy Gleye		(F2)					(LRR P, S, T)
	d Layers (A5)		Depleted Ma						Loamy Soils (	F20)
	Bodies (A6) (LRR F		Redox Dark					RA 153B)		
	ıcky Mineral (A7) <b>(L</b>		Depleted Dai		` '			arent Mater		_,
	esence (A8) (LRR U	J)	Redox Depre	•	8)				Surface (TF1	2)
	ick (A9) <b>(LRR P, T)</b>	(8.4.4)	☐ Marl (F10) <b>(L</b>	•	(141 5 4 4	=4\	U Other	(Explain in I	Remarks)	
_	d Below Dark Surfac	ce (A11)	Depleted Ocl		•	•	<b>-</b> \ 3 <sub>11</sub> :.			t-ti
_	ark Surface (A12)	MI DA 450A\	Iron-Mangan					-	drophytic veget	
_	rairie Redox (A16) <b>(</b> Augky Minoral (S1) <b>(</b>		_					-	ogy must be pi ed or problema	
	lucky Mineral (S1) <b>(</b> Bleyed Matrix (S4)	LKK (), (3)	Delta Ochric Reduced Ver					ess disturbe	d or problema	uc.
	Redox (S5)		Piedmont Flo							
	Matrix (S6)						8A 149A, 153C	153D)		
_	rface (S7) <b>(LRR P,</b> :	S. T. U)	Anomalous L	night Loa	illy Golla	(1 20) <b>(WEX</b>	A 149A, 1990	, 1330)		
	Layer (if observed)									
Type:	Layer (ii observed)	•								
_ ··	-1>						Hydric Soil	D======40	v X	Na
Depth (in	cnes):		<u>—</u>				Hydric Soil	Present?	res <u>/                                    </u>	No
Remarks:	ydric soil was	nracant								
''	yunc son was	present	•							

Applicant/Owner: Port of Corpus Christi Authority	Sampling Date: 10/18/2021  State: TX Sampling Date: WD16BPH_SJI  Don, Township, Range: N/A  Concave
Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.84921	relief (concave, convex, none): Officave Slope (%): 050 4 -97 044080 NAD83
Soil Map Unit Name: Beaches	NWI classification: PEM1Ah
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturble Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ naturally problems	
SUMMARY OF FINDINGS – Attach site map showing sam	
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?	within a Wetland? Yes X No
Remarks:	
The sampled area was determined to be within a w	vetland due to the presence of dominant
hydrophytic vegetation, hydric soil, and wetland hy	•
.,,	
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  High Water Table (A2)  Aquatic Fauna (B13)  Marl Deposits (B15) (LRF	Sparsely Vegetated Concave Surface (B8)  R U)  Drainage Patterns (B10)
Saturation (A3)  Hydrogen Sulfide Odor (C	
Water Marks (B1)  Water Marks (B1)  Oxidized Rhizospheres a	
Sediment Deposits (B2)  Presence of Reduced Iron	
Drift Deposits (B3)	Tilled Soils (C6) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	_
Inundation Visible on Aerial Imagery (B7)	FAC-Neutral Test (D5)
✓ Water-Stained Leaves (B9)   Field Observations:	Sphagnum moss (D8) (LRR T, U)
Surface Water Present? Yes X No Depth (inches): 0.5" a	above surface
Water Table Present? Yes X No Depth (inches): at s	
Saturation Present? Yes X No Depth (inches): at s	
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections) if available:
Describe recorded Data (stream gauge, monitoring well, acrial priotos, pre	vious inspections), ii available.
Remarks:	
Wetland hydrology was present.	
Treatment of an energy mane processing	

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 2 (A)
2				Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				Dercent of Deminent Species
5		-		Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		= Total Co		OBL species x 1 =
50% of total cover:				FACW species x 2 =
Sapling/Shrub Stratum (Plot size:)	2070 0	i total cover		FAC species x 3 =
				FACU species x 4 =
1				UPL species x 5 =
2.				Column Totals: (A) (B)
3			· ——	(-)
4				Prevalence Index = B/A =
5		-		Hydrophytic Vegetation Indicators:
6				1 - Rapid Test for Hydrophytic Vegetation
7				X 2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Co	ver	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
50% of total cover:	20% o	f total cove	r:	Troblematic Hydrophytic Vogetation (Explain)
Herb Stratum (Plot size: 30'x30' )				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
1. Paspalum monostachyum	60	Υ	FACW	be present, unless disturbed or problematic.
2. Ambrosia psilostachya	20	Y	FAC	Definitions of Four Vegetation Strata:
3. Schizachyrium scoparium	13	N	FACU	John Money Co. 1 Car. 1 Cagottation Caratta
4. Andropogon virginicus	5	N	FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5. Commelina erecta	1	N	FACU	more in diameter at breast height (DBH), regardless of height.
6. Physalis cinerascens	- <del>'</del>	N	UPL	
		-	OI L	Sapling/Shrub – Woody plants, excluding vines, less
7				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
8			· <del></del>	Herb – All herbaceous (non-woody) plants, regardless
9				of size, and woody plants less than 3.28 ft tall.
10				Woody vine – All woody vines greater than 3.28 ft in
11		-		height.
12				
	100	= Total Co	ver	
50% of total cover: 50	20% o	f total cove	r: <u>20</u>	
Woody Vine Stratum (Plot size: )				
1				
2.				
3.				
4				
5			· <del></del>	Hydrophytic
		= Total Co		Vegetation           Present?         Yes X         No
50% of total cover:		f total cove	r:	1
Remarks: (If observed, list morphological adaptations bel	ow).			
Dominant hydrophytic vegetation was p	oresent.			

Sampling Point: WD16BPH\_SJI

SOIL Sampling Point: WD16BPH\_SJI

Profile Desc	cription: (Describe	to the dept	h needed to docun	nent the	indicator	or confirm	m the absence of indica	itors.)
Depth	Matrix			x Feature	es _ 1	. 2		
(inches)	Color (moist) 10YR 4/1	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	_Loc <sup>2</sup>	Texture	Remarks
0-3		100	40) (D. 5/0				Loamy sand	
3-12	10YR 5/2	98	10YR 5/6	2	<u>C</u>	M	Loamy sand	
12-20	2.54 4/2	95	10YR 5/6	5	С	M	Clay loam	
							· <u></u>	
		<del></del> -						
		<del></del> -				· <del></del>	· <u></u>	
l <del></del>								
	oncentration, D=Dep					ains.	<sup>2</sup> Location: PL=Pore	
l <u> </u>	Indicators: (Applic	able to all I						lematic Hydric Soils <sup>3</sup> :
Histosol	(A1) pipedon (A2)		Polyvalue Be				<b>U)</b>	
_	istic (A3)		Loamy Muck	-				(F18) <b>(outside MLRA 150A,B)</b>
_	en Sulfide (A4)		Loamy Gleye			,	- I	plain Soils (F19) (LRR P, S, T)
_	d Layers (A5)		Depleted Mat		,			ht Loamy Soils (F20)
	Bodies (A6) (LRR P		Redox Dark	Surface (	F6)		(MLRA 153B)	
	ucky Mineral (A7) <b>(Ll</b>		Depleted Dar		` '		Red Parent Mat	
	resence (A8) (LRR U	J)	Redox Depre	•	<del>-</del> 8)		<del>_</del>	ark Surface (TF12)
_	uck (A9) <b>(LRR P, T)</b> d Below Dark Surfac	·ο (Λ11)	Marl (F10) <b>(L</b> Depleted Och	-	/MIDA 1	<b>5</b> 1\	U Other (Explain i	n Remarks)
I = '	ark Surface (A12)	C (A11)	Iron-Mangan	, ,	•	•	. T) <sup>3</sup> Indicators of h	nydrophytic vegetation and
-	rairie Redox (A16) <b>(I</b>	MLRA 150A	=		, ,	•		ology must be present,
	Mucky Mineral (S1) (I	LRR O, S)	Delta Ochric	(F17) <b>(M</b>	LRA 151)		unless distur	bed or problematic.
	Gleyed Matrix (S4)		Reduced Ver					
	Redox (S5)		Piedmont Flo					
	d Matrix (S6)	2 T IIV		right Loa	imy Soils	(F20) <b>(ML</b> F	RA 149A, 153C, 153D)	
	rface (S7) (LRR P, S							
Type:	_ayo: ( obco: rou)	_						
Depth (in	ches):						Hydric Soil Present	? Yes X No
Remarks:	<u> </u>		<del></del>				11,411.0 00111 1000111	· · · · · · · · · · · · · · · · · · ·
H	lydric soil was	presen	t.					

Project/Site: San Jose Island Applicant/Owner: Port of Corpus Christi Authority	Sounty: Aransas County State: TX Sampling Date: 10/18/2021 Sampling Point: WD17BPH_SJI
Investigator(s): JLM, BPH Section	on, Township, Range: N/A
Landform (hillslope, terrace, etc.): Barrier island - depression Local Subregion (LRR or MLRA): LRR T / MLRA 150B Lat: 27.84092	relief (concave, convex, none): Concave Slope (%): 3-5  1 Long: -97.046159 Datum: NAD83
Soil Map Unit Name: Beaches	NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Y	
Are Vegetation $\frac{N}{N}$ , Soil $\frac{N}{N}$ , or Hydrology $\frac{N}{N}$ significantly disturb	
Are Vegetation $N$ , Soil $N$ , or Hydrology $N$ naturally problems	atic? (If needed, explain any answers in Remarks.)
SUMMARY OF FINDINGS – Attach site map showing sam	pling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes X No	Is the Sampled Area
Hydric Soil Present?   Yes X   No	within a Wetland? Yes X No
Remarks:	
The sampled area was determined to be within a w	• • • • • • • • • • • • • • • • • • •
hydrophytic vegetation, hydric soil, and wetland hy	drology.
HYDROLOGY	
Wetland Hydrology Indicators:	Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; check all that apply)	Surface Soil Cracks (B6)
Surface Water (A1)  Aquatic Fauna (B13)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)  Marl Deposits (B15) (LRF	
Saturation (A3) Hydrogen Sulfide Odor (C	
Water Marks (B1) Oxidized Rhizospheres a	
Sediment Deposits (B2) Presence of Reduced Iron	n (C4)
☐ Drift Deposits (B3) ☐ Recent Iron Reduction in	
Algal Mat or Crust (B4)  Thin Muck Surface (C7)	Geomorphic Position (D2)
☐ Iron Deposits (B5) ☐ Other (Explain in Remark	
Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)	FAC-Neutral Test (D5) Sphagnum moss (D8) (LRR T, U)
Field Observations:	Opriagram moss (50) (ERR 1, 0)
Surface Water Present? Yes No X Depth (inches):	
Water Table Present? Yes X No Depth (inches): 3" fr	om surface
Saturation Present? Yes X No Depth (inches): at s	Surface Wetland Hydrology Present? Yes X No
(includes capillary fringe)	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, pre	vious inspections), if available:
Remarks:	
Wetland hydrology was present.	

	Absolute	Dominant	Indicator	Dominance Test worksheet:							
Tree Stratum (Plot size:)		Species?		Number of Dominant Species							
1				That Are OBL, FACW, or FAC: 2 (A)							
2				Total Number of Dominant							
3				Species Across All Strata: 3 (B)							
4				Dansont of Dansin and Conscient							
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B)							
6				(VB)							
7.				Prevalence Index worksheet:							
8.				Total % Cover of: Multiply by:							
·			/or	OBL species x 1 =							
EOO/ of total cover	= Total Cover			FACW species x 2 =							
50% of total cover:	20% 01	total cover		FAC species x 3 =							
Sapling/Shrub Stratum (Plot size:)				FACU species x 4 =							
1				UPL species x 5 =							
2				Column Totals: (A) (B)							
3				Column rotals (A) (B)							
4				Prevalence Index = B/A =							
5				Hydrophytic Vegetation Indicators:							
6				1 - Rapid Test for Hydrophytic Vegetation							
7				X 2 - Dominance Test is >50%							
8.											
	= Total Cover			3 - Prevalence Index is ≤3.0¹ Problematic Hydrophytic Vegetation¹ (Explain)							
50% of total cover:	50% of total cover: 20% of total cover:										
Herb Stratum (Plot size: 30'x30' )	20 /0 01	total cover		1							
1. Paspalum monostachyum	40	Υ	FACW	Indicators of hydric soil and wetland hydrology must							
2. Schizachyrium scoparium	20	Y	FACU	be present, unless disturbed or problematic.							
		Y		Definitions of Four Vegetation Strata:							
3. Erigeron procumbens	20		FAC	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or							
4. Fimbristylis castanea	10	N	OBL	more in diameter at breast height (DBH), regardless of							
5. Verbena bonariensis	5	<u>N</u>	FAC	height.							
6. Cynanchum laeve	4	<u>N</u>	FAC	Sapling/Shrub – Woody plants, excluding vines, less							
7. Dalea leporina	1	<u>N</u>	UPL	than 3 in. DBH and greater than 3.28 ft (1 m) tall.							
8				Herb – All herbaceous (non-woody) plants, regardless							
9.				of size, and woody plants less than 3.28 ft tall.							
10.											
				<b>Woody vine</b> – All woody vines greater than 3.28 ft in							
11				height.							
12	100										
50		= Total Cov									
	20% of	total cover	: 20								
Woody Vine Stratum (Plot size:)											
1											
2											
3											
4											
5				Hydrophytic							
		= Total Cov	/er	Vegetation							
50% of total cover:				Present? Yes X No							
Remarks: (If observed, list morphological adaptations bel			· ——								
Dominant hydrophytic vegetation was present.											

Sampling Point: WD17BPH\_SJI

SOIL Sampling Point: WD17BPH\_SJI

	-	to the dep				or confir	m the absence of in	dicators.)		
Depth Matrix (inches) Color (moist) %		Redox Features Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>				- Texture	Remarks			
0-8	10YR 5/2	100	<u> </u>		_ турс_		Loamy sand	remarks	-	
8-20	10YR 5/2	95	10YR 6/6	5	C	M	Loamy sand		_	
0-20	10111 3/2		10111 0/0			IVI	Loanly Sand		<u> </u>	
							<del></del>		_	
			-	_			<u> </u>			
						_				
<sup>1</sup> Type: C=C	oncentration, D=De	oletion, RM	=Reduced Matrix, M	S=Maske	d Sand G	rains.	<sup>2</sup> Location: PL=	Pore Lining, M=Matr	ix.	
			LRRs, unless othe					Problematic Hydric		
Histosol			Polyvalue Be				· —	(A9) <b>(LRR O)</b>		
	pipedon (A2)		Thin Dark Su					(A10) (LRR S)		
☐ Black Histic (A3) ☐ Loamy Mucky Mineral (F1) (LRR O) ☐ Hydrogen Sulfide (A4) ☐ Loamy Gleyed Matrix (F2)				Reduced Vertic (F18) (outside MLRA 150A,B) Piedmont Floodplain Soils (F19) (LRR P, S, T)						
	d Layers (A5)		Depleted Ma		(Г2)		Anomalous Bright Loamy Soils (F20)			
	Bodies (A6) (LRR F	P, T, U)	Redox Dark		F6)		(MLRA 1		. 20)	
	ucky Mineral (A7) <b>(L</b>		) 🔲 Depleted Da	ırk Surfac	e (F7)		Red Parent Material (TF2)			
	resence (A8) (LRR I	J)	Redox Depre		F8)		☐ Very Shallow Dark Surface (TF12)			
	uck (A9) (LRR P, T)	o (A11)	Marl (F10) (I	•	/MI DA	(E4)	<u> </u>	ain in Remarks)		
l = '	d Below Dark Surfac ark Surface (A12)	e (ATT)	☐ Depleted Od ☐ Iron-Mangar		•	-	P. T) <sup>3</sup> Indicators	of hydrophytic vege	tation and	
_	rairie Redox (A16) <b>(</b>	MLRA 150	_					hydrology must be p		
	Mucky Mineral (S1) (	LRR O, S)	Delta Ochric	(F17) <b>(M</b>	LRA 151)		unless d	listurbed or problema	itic.	
	Gleyed Matrix (S4)		Reduced Ve							
	Redox (S5)		Piedmont Flo					(D)		
_	l Matrix (S6) Irface (S7) <b>(LRR P,</b> :	S. T. U)	<u></u> □ Anomaious i	Bright Loa	imy Soils	(FZU) <b>(IVIL</b> I	RA 149A, 153C, 153	יט		
	Layer (if observed)									
Type:										
Depth (in	ches):						Hydric Soil Pres	sent? Yes X	No	
Remarks:										
H	lydric soil was	preser	It.							

# D. Field Survey Photos





Picture 1: RU1BPH Bearing: East Date: 10/21/21



Picture 2: RU1BPH Bearing: North Date: 10/21/21



Picture 3: RU1BPH Bearing: South Date: 10/21/21



Picture 4: RU1BPH Bearing: West Date: 10/21/21



Picture 5: RU1KNT\_Transect1 Bearing: Northeast Date: 10/18/21



Picture 6: RU1KNT\_Transect1 Bearing: Northwest Date: 10/18/21





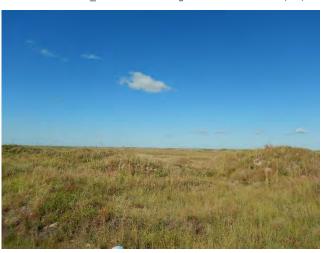
Picture 7: RU1KNT\_Transect1 Bearing: Southeast Date: 10/18/21



Picture 8: RU1KNT\_Transect1 Bearing: Southwest Date: 10/18/21



Picture 9: RU1KNT\_Transect6 Bearing: Northeast Date: 10/18/21



Picture 10: RU1KNT\_Transect6 Bearing: Northwest Date: 10/18/21



Picture 11: RU1KNT\_Transect6 Bearing: Southeast Date: 10/18/21



Picture 12: RU1KNT\_Transect6 Bearing: Southwest Date: 10/18/21





Picture 13: RU2BPH Bearing: East Date: 10/21/21



Picture 14: RU2BPH Bearing: North Date: 10/21/21



Picture 15: RU2BPH Bearing: South Date: 10/21/21



Picture 16: RU2BPH Bearing: West Date: 10/21/21



Picture 17: RU2KNT\_Transect6 Bearing: Northeast Date: 10/18/21



Picture 18: RU2KNT\_Transect6 Bearing: Northwest Date: 10/18/21





Picture 19: RU2KNT\_Transect6 Bearing: Southeast Date: 10/18/21



Picture 20: RU2KNT\_Transect6 Bearing: Southwest Date: 10/18/21



Picture 21: RU3BPH Bearing: East Date: 10/21/21



Picture 22: RU3BPH Bearing: North Date: 10/21/21



Picture 23: RU3BPH Bearing: South Date: 10/21/21



Picture 24: RU3BPH Bearing: West Date: 10/21/21





Picture 25: RU3KNT\_Transect1 Bearing: Northeast Date: 10/19/21



Picture 26: RU3KNT\_Transect1 Bearing: Northwest Date: 10/19/21



Picture 27: RU3KNT\_Transect1 Bearing: Southeast Date: 10/19/21



Picture 28: RU3KNT\_Transect1 Bearing: Southwest Date: 10/19/21



Picture 29: RU3KNT\_Transect5 Bearing: Northeast Date: 10/18/21



Picture 30: RU3KNT\_Transect5 Bearing: Northwest Date: 10/18/21





Picture 31: RU3KNT\_Transect5 Bearing: Southeast Date: 10/18/21



Picture 32: RU3KNT\_Transect5 Bearing: Southwest Date: 10/18/21



Picture 33: RU4BPH Bearing: East Date: 10/21/21



Picture 34: RU4BPH Bearing: North Date: 10/21/21



Picture 35: RU4BPH Bearing: South Date: 10/21/21



Picture 36: RU4BPH Bearing: West Date: 10/21/21





Picture 37: RU4KNT\_Transect1 Bearing: Northeast Date: 10/19/21



Picture 38: RU4KNT\_Transect1 Bearing: Northwest Date: 10/19/21



Picture 39: RU4KNT\_Transect1 Bearing: Southeast Date: 10/19/21



Picture 40: RU4KNT\_Transect1 Bearing: Southwest Date: 10/19/21



Picture 41: RU4KNT\_Transect5 Bearing: Northeast Date: 10/18/21



Picture 42: RU4KNT\_Transect5 Bearing: Northwest Date: 10/18/21





Picture 43: RU4KNT\_Transect5 Bearing: Southeast Date: 10/18/21



Picture 44: RU4KNT\_Transect5 Bearing: Southwest Date: 10/18/21



Picture 45: RU5KNT Bearing: Northeast Date: 10/18/21



Picture 46: RU5KNT Bearing: Northwest Date: 10/18/21



Picture 47: RU5KNT Bearing: Southeast Date: 10/18/21



Picture 48: RU5KNT Bearing: Southwest Date: 10/18/21





Picture 49: RU6KNT Bearing: Northeast Date: 10/18/21



Picture 50: RU6KNT Bearing: Northwest Date: 10/18/21



Picture 51: RU6KNT Bearing: Southeast Date: 10/18/21



Picture 52: RU6KNT Bearing: Southwest Date: 10/18/21



Picture 53: RU7KNT Bearing: Northeast Date: 10/18/21



Picture 54: RU7KNT Bearing: Northwest Date: 10/18/21





Picture 55: RU7KNT Bearing: Southeast Date: 10/18/21



Picture 56: RU7KNT Bearing: Southwest Date: 10/18/21



Picture 57: RU8KNT Bearing: Northeast Date: 10/18/21



Picture 58: RU8KNT Bearing: Northwest Date: 10/18/21



Picture 59: RU8KNT Bearing: Southeast Date: 10/18/21



Picture 60: RU8KNT Bearing: Southwest Date: 10/18/21





Picture 1: RW1BPH Bearing: East Date: 10/18/21



Picture 2: RW1BPH Bearing: North Date: 10/18/21



Picture 3: RW1BPH Bearing: South Date: 10/18/21



Picture 4: RW1BPH Bearing: West Date: 10/18/21



Picture 5: RW1KNT\_Transect1 Bearing: Northeast Date: 10/19/21



Picture 6: RW1KNT\_Transect1 Bearing: Northwest Date: 10/19/21





Picture 7: RW1KNT\_Transect1 Bearing: Southeast Date: 10/19/21



Picture 8: RW1KNT\_Transect1 Bearing: Southwest Date: 10/19/21



Picture 9: RW1KNT\_Transect5 Bearing: Northeast Date: 10/18/21



Picture 10: RW1KNT\_Transect5 Bearing: Northwest Date: 10/18/21



Picture 11: RW1KNT\_Transect5 Bearing: Southeast Date: 10/18/21



Picture 12: RW1KNT\_Transect5 Bearing: Southwest Date: 10/18/21





Picture 13: RW1KNT\_Transect18 Bearing: Northeast Date: 10/21/21



Picture 14: RW1KNT\_Transect18 Bearing: Northwest Date: 10/21/21



Picture 15: RW1KNT\_Transect18 Bearing: Southeast Date: 10/21/21



Picture 16: RW1KNT\_Transect18 Bearing: Southwest Date: 10/21/21



Picture 17: RW2BPH Bearing: East Date: 10/18/21



Picture 18: RW2BPH Bearing: North Date: 10/18/21





Picture 19: RW2BPH Bearing: South Date: 10/18/21



Picture 20: RW2BPH Bearing: West Date: 10/18/21



Picture 21: RW2KNT\_Transect1 Bearing: Northeast Date: 10/19/21



Picture 22: RW2KNT\_Transect1 Bearing: Northwest Date: 10/19/21



Picture 23: RW2KNT\_Transect1 Bearing: Southeast Date: 10/19/21



Picture 24: RW2KNT\_Transect1 Bearing: Southwest Date: 10/19/21





Picture 25: RW2KNT\_Transect5 Bearing: Northeast Date: 10/18/21



Picture 26: RW2KNT\_Transect5 Bearing: Northwest Date: 10/18/21



Picture 27: RW2KNT\_Transect5 Bearing: Southeast Date: 10/18/21



Picture 28: RW2KNT\_Transect5 Bearing: Southwest Date: 10/18/21



Picture 29: RW2KNT\_Transect18 Bearing: Northeast Date: 10/21/21



Picture 30: RW2KNT\_Transect18 Bearing: Northwest Date: 10/21/21





Picture 31: RW2KNT\_Transect18 Bearing: Southeast Date: 10/21/21



Picture 32: RW2KNT\_Transect18 Bearing: Southwest Date: 10/21/21



Picture 33: RW3BPH Bearing: East Date: 10/18/21



Picture 34: RW3BPH Bearing: North Date: 10/18/21



Picture 35: RW3BPH Bearing: South Date: 10/18/21



Picture 36: RW3BPH Bearing: West Date: 10/18/21





Picture 37: RW3KNT\_Transect1 Bearing: Northeast Date: 10/19/21



Picture 38: RW3KNT\_Transect1 Bearing: Northwest Date: 10/19/21



Picture 39: RW3KNT\_Transect1 Bearing: Southeast Date: 10/19/21



Picture 40: RW3KNT\_Transect1 Bearing: Southwest Date: 10/19/21



Picture 41: RW3KNT\_Transect4 Bearing: Northeast Date: 10/18/21



Picture 42: RW3KNT\_Transect4 Bearing: Northwest Date: 10/18/21





Picture 43: RW3KNT\_Transect4 Bearing: Southeast Date: 10/18/21



Picture 44: RW3KNT\_Transect4 Bearing: Southwest Date: 10/18/21



Picture 45: RW4BPH Bearing: East Date: 10/18/21



Picture 46: RW4BPH Bearing: North Date: 10/18/21



Picture 47: RW4BPH Bearing: South Date: 10/18/21



Picture 48: RW4BPH Bearing: West Date: 10/18/21





Picture 49: RW4KNT Bearing: Northeast Date: 10/18/21



Picture 50: RW4KNT Bearing: Northwest Date: 10/18/21



Picture 51: RW4KNT Bearing: Southeast Date: 10/18/21



Picture 52: RW4KNT Bearing: Southwest Date: 10/18/21



Picture 53: RW5BPH Bearing: East Date: 10/19/21



Picture 54: RW5BPH Bearing: North Date: 10/19/21





Picture 55: RW5BPH Bearing: South Date: 10/19/21



Picture 56: RW5BPH Bearing: West Date: 10/19/21



Picture 57: RW5KNT Bearing: Northeast Date: 10/18/21



Picture 58: RW5KNT Bearing: Northwest Date: 10/18/21



Picture 59: RW5KNT Bearing: Southeast Date: 10/18/21



Picture 60: RW5KNT Bearing: Southwest Date: 10/18/21





Picture 61: RW6BPH Bearing: East Date: 10/19/21



Picture 62: RW6BPH Bearing: North Date: 10/19/21



Picture 63: RW6BPH Bearing: South Date: 10/19/21



Picture 64: RW6BPH Bearing: West Date: 10/19/21



Picture 65: RW6KNT Bearing: Northeast Date: 10/18/21



Picture 66: RW6KNT Bearing: Northwest Date: 10/18/21





Picture 67: RW6KNT Bearing: Southeast Date: 10/18/21



Picture 68: RW6KNT Bearing: Southwest Date: 10/18/21



Picture 69: RW8BPH Bearing: East Date: 10/21/21



Picture 70: RW8BPH Bearing: North Date: 10/21/21



Picture 71: RW8BPH Bearing: South Date: 10/21/21



Picture 72: RW8BPH Bearing: West Date: 10/21/21





Picture 73: RW9BPH Bearing: East Date: 10/21/21



Picture 74: RW9BPH Bearing: North Date: 10/21/21



Picture 75: RW9BPH Bearing: South Date: 10/21/21



Picture 76: RW9BPH Bearing: West Date: 10/21/21





Picture 1: UD01BPH Bearing: East Date: 10/18/21



Picture 2: UD01BPH Bearing: North Date: 10/18/21



Picture 3: UD01BPH Bearing: South Date: 10/18/21



Picture 4: UD01BPH Bearing: N/A Date: 10/18/21



Picture 5: UD01BPH Bearing: West Date: 10/18/21



Picture 6: UD01KNT Bearing: Northeast Date: 10/19/21





Picture 7: UD01KNT Bearing: Northwest Date: 10/19/21



Picture 8: UD01KNT Bearing: Southeast Date: 10/19/21



Picture 9: UD01KNT Bearing: N/A Date: 10/19/21



Picture 10: UD01KNT Bearing: Southwest Date: 10/19/21



Picture 11: UD02BPH Bearing: East Date: 10/18/21



Picture 12: UD02BPH Bearing: North Date: 10/18/21





Picture 13: UD02BPH Bearing: South Date: 10/18/21



Picture 14: UD02BPH Bearing: N/A Date: 10/18/21



Picture 15: UD02BPH Bearing: West Date: 10/18/21



Picture 16: UD02KNT Bearing: Northeast Date: 10/19/21



Picture 17: UD02KNT Bearing: Northwest Date: 10/19/21



Picture 18: UD02KNT Bearing: Southeast Date: 10/19/21





Picture 19: UD02KNT Bearing: N/A Date: 10/19/21



Picture 20: UD02KNT Bearing: Southwest Date: 10/19/21



Picture 21: UD03BPH Bearing: East Date: 10/18/21



Picture 22: UD03BPH Bearing: North Date: 10/18/21



Picture 23: UD03BPH Bearing: South Date: 10/18/21



Picture 24: UD03BPH Bearing: N/A Date: 10/18/21





Picture 25: UD03BPH Bearing: West Date: 10/18/21



Picture 26: UD03KNT Bearing: Northeast Date: 10/18/21



Picture 27: UD03KNT Bearing: Northwest Date: 10/18/21



Picture 28: UD03KNT Bearing: Southeast Date: 10/18/21



Picture 29: UD03KNT Bearing: N/A Date: 10/18/21



Picture 30: UD03KNT Bearing: Southwest Date: 10/18/21





Picture 31: UD04BPH Bearing: East Date: 10/18/21



Picture 32: UD04BPH Bearing: North Date: 10/18/21



Picture 33: UD04BPH Bearing: South Date: 10/18/21



Picture 34: UD04BPH Bearing: N/A Date: 10/18/21



Picture 35: UD04BPH Bearing: West Date: 10/18/21



Picture 36: UD04KNT Bearing: Northeast Date: 10/18/21





Picture 37: UD04KNT Bearing: Northwest Date: 10/18/21



Picture 38: UD04KNT Bearing: Southeast Date: 10/18/21



Picture 39: UD04KNT Bearing: N/A Date: 10/18/21



Picture 40: UD04KNT Bearing: Southwest Date: 10/18/21



Picture 41: UD05BPH Bearing: East Date: 10/18/21



Picture 42: UD05BPH Bearing: North Date: 10/18/21





Picture 43: UD05BPH Bearing: South Date: 10/18/21



Picture 44: UD05BPH Bearing: N/A Date: 10/18/21



Picture 45: UD05BPH Bearing: West Date: 10/18/21



Picture 46: UD05KNT Bearing: Northeast Date: 10/18/21



Picture 47: UD05KNT Bearing: Northwest Date: 10/18/21



Picture 48: UD05KNT Bearing: Southeast Date: 10/18/21





Picture 49: UD05KNT Bearing: N/A Date: 10/18/21



Picture 50: UD05KNT Bearing: Southwest Date: 10/18/21



Picture 51: UD06BPH Bearing: East Date: 10/18/21



Picture 52: UD06BPH Bearing: North Date: 10/18/21



Picture 53: UD06BPH Bearing: South Date: 10/18/21



Picture 54: UD06BPH Bearing: N/A Date: 10/18/21





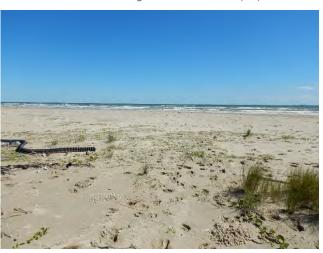
Picture 55: UD06BPH Bearing: West Date: 10/18/21



Picture 56: UD06KNT Bearing: Northeast Date: 10/18/21



Picture 57: UD06KNT Bearing: Northwest Date: 10/18/21



Picture 58: UD06KNT Bearing: Southeast Date: 10/18/21



Picture 59: UD06KNT Bearing: N/A Date: 10/18/21



Picture 60: UD06KNT Bearing: Southwest Date: 10/18/21





Picture 61: UD07BPH Bearing: East Date: 10/18/21



Picture 62: UD07BPH Bearing: North Date: 10/18/21



Picture 63: UD07BPH Bearing: South Date: 10/18/21



Picture 64: UD07BPH Bearing: N/A Date: 10/18/21



Picture 65: UD07BPH Bearing: West Date: 10/18/21



Picture 66: UD07KNT Bearing: Northeast Date: 10/18/21





Picture 67: UD07KNT Bearing: Northwest Date: 10/18/21



Picture 68: UD07KNT Bearing: Southeast Date: 10/18/21



Picture 69: UD07KNT Bearing: N/A Date: 10/18/21



Picture 70: UD07KNT Bearing: Southwest Date: 10/18/21



Picture 71: UD08BPH Bearing: East Date: 10/18/21



Picture 72: UD08BPH Bearing: North Date: 10/18/21