

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>196C-A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	H	OBL	8		
2 <i>Eupatorium capillifolium</i>	H	FACW	9		
3 <i>Andropogon glomeratus</i>	H	FACW	10		
4 <i>Cladium jamaicense</i>	H	OBL	11		
5 <i>Acer rubrum</i>	S	FAC	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
--	--

Remarks: These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.

SOILS

Map Unit Name (Series and Phase): <u>Pompano fine sand, depressional</u>	Drainage Class: <u>IIIw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-5	A11	10YR 4/1			Dk. gray fine sand
5-12	A12	10YR 5/2	10YR 6/6		Gray/brown fine sand w/ mottles

Hydric Soil Indicators:		
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			

Remarks: _____

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	
Community ID: <u>FLUCFCS 641</u>	
Transect ID: _____	
Plot ID: <u>196C-B</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	H	OBL	8		
2 <i>Eupatorium capillifolium</i>	H	FACW	9		
3 <i>Andropogon glomeratus</i>	H	FACW	10		
4 <i>Cladium jamaicense</i>	H	OBL	11		
5 <i>Acer rubrum</i>	S	FAC	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Pompano fine sand, depressional</u>	Drainage Class: <u>IIIw</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-5	A11	10YR 4/1			Dk. gray fine sand
5-12	A12	10YR 5/2	10YR 6/6		Gray/brown fine sand w/ mottles
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (wet)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>196E-A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha Spp.</i>	H	OBL	8		
2 <i>Panicum repens</i>	H	FACW	9		
3 <i>Bacopa caroliniana</i>	H	OBL	10		
4 <i>Andropogon glomeratus</i>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
---	---

Remarks: Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.

SOILS

Map Unit Name (Series and Phase): <u>Symrna fine sand</u>	Drainage Class: <u>IVw</u>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? <u>Yes</u> <i>Circle</i> No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A-11	N 2/0			Fine sand
4-7	A-12	10YR 4/1	10YR 3/1		Fine sand

Hydric Soil Indicators: ☒ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime	☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils	☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)
--	--	---

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Hydric Soils Present? ☒ Yes ☐ No
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No		
Remarks: _____		

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>196F-A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	H	OBL	8		
2 <i>Eupatorium capillifolium</i>	H	FACW	9		
3 <i>Andropogon glomeratus</i>	H	FACW	10		
4 <i>Cladium jamaicense</i>	H	OBL	11		
5 <i>Acer rubrum</i>	S	FAC	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Pompano fine sand, depressional</u>	Drainage Class: <u>IIIw</u> <i>Circle</i>				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-5	A11	10YR 4/1			Dk. gray fine sand
5-12	A12	10YR 5/2	10YR 6/6		Gray/brown fine sand w/ mottles
Hydric Soil Indicators: ☒ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils ☒ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>196F-B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	H	OBL	8		
2 <i>Eupatorium capillifolium</i>	H	FACW	9		
3 <i>Andropogon glomeratus</i>	H	FACW	10		
4 <i>Cladium jamaicense</i>	H	OBL	11		
5 <i>Acer rubrum</i>	S	FAC	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
--	--

Remarks: These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.

SOILS

Map Unit Name (Series and Phase): <u>Pompano fine sand, depressional</u>	Drainage Class: <u>IIIw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-5	A11	10YR 4/1			Dk. gray fine sand
5-12	A12	10YR 5/2	10YR 6/6		Gray/brown fine sand w/ mottles

Hydric Soil Indicators:		
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			

Remarks: _____

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (wet)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>197A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha Spp.</i>	H	OBL	8		
2 <i>Panicum repens</i>	H	FACW	9		
3 <i>Bacopa caroliniana</i>	H	OBL	10		
4 <i>Andropogon glomeratus</i>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
---	---

Remarks: Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.

SOILS

Map Unit Name (Series and Phase): <u>Symrna fine sand</u>	Drainage Class: <u>IVw</u>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? <u>Yes</u> <i>Circle</i> No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A-11	N 2/0			Fine sand
4-7	A-12	10YR 4/1	10YR 3/1		Fine sand

Hydric Soil Indicators: ☒ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime	☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils	☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)
--	--	---

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Hydric Soils Present? ☒ Yes ☐ No
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No		
Remarks: _____		

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (wet)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>198A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha Spp.</i>	H	OBL	8		
2 <i>Panicum repens</i>	H	FACW	9		
3 <i>Bacopa caroliniana</i>	H	OBL	10		
4 <i>Andropogon glomeratus</i>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
---	---

Remarks: Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.

SOILS

Map Unit Name (Series and Phase): <u>Symrna fine sand</u>	Drainage Class: <u>IVw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A-11	N 2/0			Fine sand
4-7	A-12	10YR 4/1	10YR 3/1		Fine sand

Hydric Soil Indicators:		
☒ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			

Remarks: _____

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	
Community ID: <u>FLUCFCS 511 ditches / swales</u>	
Transect ID: <u>198B</u>	
Plot ID: <u>198B</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	H	OBL	8		
2 <i>Saururus cernuus</i>	H	OBL	9		
3 <i>Ludwigia Peruviana</i>	H	OBL	10		
4 <i>Ludwigia octovalvis</i>	H	OBL	11		
5 <i>Panicum repens</i>	H	FACW	12		
6 <i>Salix caroliniana</i>	S	OBL	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and feral hogs. Diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <table border="0"><tr><td>☒ Inundated</td><td>☒ Oxidized Root Channels in Upper 12"</td></tr><tr><td>☒ Saturated in Upper 12 inches</td><td>☒ Water-Stained Leaves</td></tr><tr><td>☐ Water Marks</td><td>☐ Local Soil Survey Data</td></tr><tr><td>☐ Drift Lines</td><td>☒ FAC-Neutral Test</td></tr><tr><td>☒ Sediment Deposits</td><td>☐ Other (explain in remarks)</td></tr><tr><td>☒ Drainage Patterns in Wetlands</td><td></td></tr></table>	☒ Inundated	☒ Oxidized Root Channels in Upper 12"	☒ Saturated in Upper 12 inches	☒ Water-Stained Leaves	☐ Water Marks	☐ Local Soil Survey Data	☐ Drift Lines	☒ FAC-Neutral Test	☒ Sediment Deposits	☐ Other (explain in remarks)	☒ Drainage Patterns in Wetlands	
☒ Inundated	☒ Oxidized Root Channels in Upper 12"												
☒ Saturated in Upper 12 inches	☒ Water-Stained Leaves												
☐ Water Marks	☐ Local Soil Survey Data												
☐ Drift Lines	☒ FAC-Neutral Test												
☒ Sediment Deposits	☐ Other (explain in remarks)												
☒ Drainage Patterns in Wetlands													
Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)													
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>													

SOILS

Map Unit Name (Series and Phase): <u>Myakka fine sand</u>	Drainage Class: <u>IVw</u> Circle				
Taxonomy (Subgroup): <u></u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A-1	10YR 3/1			Fine sand
7-27	A-2	10YR 7/1	10YR 3/2		Fine sand
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: <u></u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: <u></u>	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	
Community ID: <u>FLUCFCS 511 ditches / swales</u>	
Transect ID: <u>198C</u>	
Plot ID: <u>198C</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	H	OBL	8		
2 <i>Saururus cernuus</i>	H	OBL	9		
3 <i>Ludwigia Peruviana</i>	H	OBL	10		
4 <i>Ludwigia octovalvis</i>	H	OBL	11		
5 <i>Panicum repens</i>	H	FACW	12		
6 <i>Salix caroliniana</i>	S	OBL	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and feral hogs. Diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Myakka fine sand</u>	Drainage Class: <u>IVw</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A-1	10YR 3/1			Fine sand
7-27	A-2	10YR 7/1	10YR 3/2		Fine sand
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	
Community ID: <u>FLUCFCS 511</u>	
Transect ID: _____	
Plot ID: <u>199A</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Paspalum notatum</i>	H	FACU+	8		
2 <i>Panicum repens</i>	H	FACW-	9		
3 <i>Cyperus spp.</i>	H	FACW	10		
4			11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 67%

Remarks: Most of these wetlands have experience grazing by cattle and diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Pompano fine sand, depressional</u>	Drainage Class: <u>IIIw</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-5	A11	10YR 4/1			Dk. gray fine sand
5-12	A12	10YR 5/2	10YR 6/6		Gray/brown fine sand w/ mottles
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>199B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	H	OBL	8		
2 <i>Eupatorium capillifolium</i>	H	FACW	9		
3 <i>Andropogon glomeratus</i>	H	FACW	10		
4 <i>Cladium jamaicense</i>	H	OBL	11		
5 <i>Acer rubrum</i>	S	FAC	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
--	--

Remarks: These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.

SOILS

Map Unit Name (Series and Phase): <u>Pompano fine sand, depressional</u>	Drainage Class: <u>IIIw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-5	A11	10YR 4/1			Dk. gray fine sand
5-12	A12	10YR 5/2	10YR 6/6		Gray/brown fine sand w/ mottles

Hydric Soil Indicators:		
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			

Remarks: _____

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>199C</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	H	OBL	8		
2 <i>Eupatorium capillifolium</i>	H	FACW	9		
3 <i>Andropogon glomeratus</i>	H	FACW	10		
4 <i>Cladium jamaicense</i>	H	OBL	11		
5 <i>Acer rubrum</i>	S	FAC	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
--	--

Remarks: These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.

SOILS

Map Unit Name (Series and Phase): <u>Pompano fine sand, depressional</u>	Drainage Class: <u>IIIw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-5	A11	10YR 4/1			Dk. gray fine sand
5-12	A12	10YR 5/2	10YR 6/6		Gray/brown fine sand w/ mottles

Hydric Soil Indicators:		
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (wet)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>200A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <u><i>Typha Spp.</i></u>	H	OBL	8		
2 <u><i>Panicum repens</i></u>	H	FACW	9		
3 <u><i>Bacopa caroliniana</i></u>	H	OBL	10		
4 <u><i>Andropogon glomeratus</i></u>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: <u>Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Myakka fine sand</u>	Drainage Class: <u>IVw</u> <i>Circle</i>				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A-1	10YR 3/1			Fine sand
7-27	A-2	10YR 7/1	10YR 3/2		Fine sand
Hydric Soil Indicators: ☒ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (wet)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>201A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha Spp.</i>	H	OBL	8		
2 <i>Panicum repens</i>	H	FACW	9		
3 <i>Bacopa caroliniana</i>	H	OBL	10		
4 <i>Andropogon glomeratus</i>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
---	---

Remarks: Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.

SOILS

Map Unit Name (Series and Phase): <u>Myakka fine sand</u>	Drainage Class: <u>IVw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A-1	10YR 3/1			Fine sand
7-27	A-2	10YR 7/1	10YR 3/2		Fine sand

Hydric Soil Indicators: ☒ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime	☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils	☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)
--	--	---

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Hydric Soils Present? ☒ Yes ☐ No
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No		
Remarks: _____		

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>202A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	H	OBL	8		
2 <i>Eupatorium capillifolium</i>	H	FACW	9		
3 <i>Andropogon glomeratus</i>	H	FACW	10		
4 <i>Cladium jamaicense</i>	H	OBL	11		
5 <i>Acer rubrum</i>	S	FAC	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
--	--

Remarks: These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.

SOILS

Map Unit Name (Series and Phase): <u>Pompano fine sand, depressional</u>	Drainage Class: <u>IIIw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-5	A11	10YR 4/1			Dk. gray fine sand
5-12	A12	10YR 5/2	10YR 6/6		Gray/brown fine sand w/ mottles

Hydric Soil Indicators:		
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			

Remarks: _____

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	
Community ID: <u>FLUCFCS 641</u>	
Transect ID: <u>202B</u>	
Plot ID: <u>202B</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	H	OBL	8		
2 <i>Eupatorium capillifolium</i>	H	FACW	9		
3 <i>Andropogon glomeratus</i>	H	FACW	10		
4 <i>Cladium jamaicense</i>	H	OBL	11		
5 <i>Acer rubrum</i>	S	FAC	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Pompano fine sand, depressional</u>	Drainage Class: <u>IIIw</u> Circle				
Taxonomy (Subgroup): <u></u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-5	A11	10YR 4/1			Dk. gray fine sand
5-12	A12	10YR 5/2	10YR 6/6		Gray/brown fine sand w/ mottles
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: <u></u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: <u></u>					

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (wet)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>203A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha Spp.</i>	H	OBL	8		
2 <i>Panicum repens</i>	H	FACW	9		
3 <i>Bacopa caroliniana</i>	H	OBL	10		
4 <i>Andropogon glomeratus</i>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
---	---

Remarks: Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.

SOILS

Map Unit Name (Series and Phase): <u>Pompano fine sand, depressional</u>	Drainage Class: <u>Vllw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-5	A11	10YR 4/1			Dk. gray fine sand
5-12	A12	10YR 5/2	10YR 6/6		Gray/brown fine sand w/ mottles

Hydric Soil Indicators: ☒ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime	☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils	☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)
--	--	---

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Hydric Soils Present? ☒ Yes ☐ No
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No		
Remarks: _____		

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	
Community ID: <u>FLUCFCS 641</u>	
Transect ID: <u>204A</u>	
Plot ID: <u>204A</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <u>Andropogon virginicus</u>	H	FAC-	8		
2 <u>Hypericum fasciculatum</u>	S	FACW+	9		
3			10		
4			11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 50%

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	
Remarks: <u>Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Myakka fine sand</u>	Drainage Class: <u>IVw</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A-1	10YR 3/1			Fine sand
7-27	A-2	10YR 7/1	10YR 3/2		Fine sand
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (wet)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>205A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha Spp.</i>	H	OBL	8		
2 <i>Panicum repens</i>	H	FACW	9		
3 <i>Bacopa caroliniana</i>	H	OBL	10		
4 <i>Andropogon glomeratus</i>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
---	---

Remarks: Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.

SOILS

Map Unit Name (Series and Phase): <u>Immokalee fine sand</u>	Drainage Class: <u>IVw</u>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? <u>Yes</u> <i>Circle</i> No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A-1	10YR 3/1			Fine sand
7-13	A-21	10YR 6/1			Loose fine sand

Hydric Soil Indicators: ☒ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime	☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils	☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)
--	--	---

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Wetland Hydrology Present? ☒ Yes ☐ No	Hydric Soils Present? ☒ Yes ☐ No
Is this Sampling Point Within a Wetland? ☒ Yes ☐ No		
Remarks: _____		

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 630</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>206A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	H	OBL	8		
2 <i>Saururus cernuus</i>	H	OBL	9		
3 <i>Ludwigia Peruviana</i>	H	OBL	10		
4 <i>Ludwigia octovalvis</i>	H	OBL	11		
5 <i>Panicum repens</i>	H	FACW	12		
6 <i>Salix caroliniana</i>	S	OBL	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and feral hogs. Diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Placid fine sand, depressional</u>	Drainage Class: <u>IIIw</u> <i>Circle</i>				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-14	A-11	10YR 2/1			Black fine sand
14-24	A-12	10YR 3/1			Dk. gray fine sand
Hydric Soil Indicators: ☒ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils ☒ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 511</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>206B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	H	OBL	8		
2 <i>Saururus cernuus</i>	H	OBL	9		
3 <i>Ludwigia Peruviana</i>	H	OBL	10		
4 <i>Ludwigia octovalvis</i>	H	OBL	11		
5 <i>Panicum repens</i>	H	FACW	12		
6 <i>Salix caroliniana</i>	S	OBL	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and feral hogs. Diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Placid fine sand, depressional</u>	Drainage Class: <u>IIIw</u> <i>Circle</i>																
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No																
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.												
0-14	A-11	10YR 2/1			Black fine sand												
14-24	A-12	10YR 3/1			Dk. gray fine sand												
Hydric Soil Indicators: <table style="width: 100%;"> <tr> <td>☒ Histosol</td> <td>☒ Reducing Conditions</td> <td>☒ High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td>☐ Histic Epipedon</td> <td>☒ Gleyed or Low-Chroma Colors</td> <td>☐ Listed on National Hydric Soils List</td> </tr> <tr> <td>☐ Sulfidic Odor</td> <td>☒ Concretions</td> <td>☐ Listed on Local Hydric Soils List</td> </tr> <tr> <td>☒ Aquic Moisture Regime</td> <td>☐ Organic Streaking in Sandy Soils</td> <td>☐ Other (explain in remarks)</td> </tr> </table>						☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils	☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List	☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List	☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils															
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List															
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List															
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)															
Remarks: _____																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	
Community ID: <u>FLUCFCS 534 (wet)</u>	
Transect ID: _____	
Plot ID: <u>206C-1</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha Spp.</i>	H	OBL	8		
2 <i>Panicum repens</i>	H	FACW	9		
3 <i>Bacopa caroliniana</i>	H	OBL	10		
4 <i>Andropogon glomeratus</i>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: <i>Primary Indicators:</i> <table style="width: 100%;"><tr><td>☒ Inundated</td><td>☒ Oxidized Root Channels in Upper 12"</td></tr><tr><td>☒ Saturated in Upper 12 inches</td><td>☐ Water-Stained Leaves</td></tr><tr><td>☐ Water Marks</td><td>☐ Local Soil Survey Data</td></tr><tr><td>☐ Drift Lines</td><td>☒ FAC-Neutral Test</td></tr><tr><td>☐ Sediment Deposits</td><td>☐ Other (explain in remarks)</td></tr><tr><td>☐ Drainage Patterns in Wetlands</td><td></td></tr></table>	☒ Inundated	☒ Oxidized Root Channels in Upper 12"	☒ Saturated in Upper 12 inches	☐ Water-Stained Leaves	☐ Water Marks	☐ Local Soil Survey Data	☐ Drift Lines	☒ FAC-Neutral Test	☐ Sediment Deposits	☐ Other (explain in remarks)	☐ Drainage Patterns in Wetlands	
☒ Inundated	☒ Oxidized Root Channels in Upper 12"												
☒ Saturated in Upper 12 inches	☐ Water-Stained Leaves												
☐ Water Marks	☐ Local Soil Survey Data												
☐ Drift Lines	☒ FAC-Neutral Test												
☐ Sediment Deposits	☐ Other (explain in remarks)												
☐ Drainage Patterns in Wetlands													
Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)													
Remarks: Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.													

SOILS

Map Unit Name (Series and Phase): <u>Placid Fine Sand, Depressional</u>	Drainage Class: <u>IIIw</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-14	A-11	10YR 2/1			Black fine sand
14-24	A-12	10YR 3/1			Dk. gray fine sand
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks:					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (wet)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>207A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha Spp.</i>	H	OBL	8		
2 <i>Panicum repens</i>	H	FACW	9		
3 <i>Bacopa caroliniana</i>	H	OBL	10		
4 <i>Andropogon glomeratus</i>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
---	---

Remarks: Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.

SOILS

Map Unit Name (Series and Phase): <u>Symrna fine sand, Placid fine sand depressional</u>	Drainage Class: <u>IVw, IIIw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A-11	N 2/0			Fine sand
4-7	A-12	10YR 4/1		10YR 3/1	Fine sand
0-14	A-11	10YR 2/1			Black fine sand
14-24	A-12	10YR 3/1			Dk. gray fine sand

Hydric Soil Indicators:		
☒ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	

Remarks: _____

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>207B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	H	OBL	8		
2 <i>Saururus cernuus</i>	H	OBL	9		
3 <i>Ludwigia Peruviana</i>	H	OBL	10		
4 <i>Ludwigia octovalvis</i>	H	OBL	11		
5 <i>Panicum repens</i>	H	FACW	12		
6 <i>Salix caroliniana</i>	S	OBL	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and feral hogs. Diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands
Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	<i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)

Remarks: These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.

SOILS

Map Unit Name (Series and Phase): <u>Symma fine sand & Placid fine sand, depressional</u>	Drainage Class: <u>IVw, IIIw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A-11	N 2/0			Fine sand
4-7	A-12	10YR 4/1		10YR 3/1	Fine sand
0-14	A-11	10YR 2/1			Black fine sand
14-24	A-12	10YR 3/1			Dk. gray fine sand

Hydric Soil Indicators:		
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (wet)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>210A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha Spp.</i>	H	OBL	8		
2 <i>Panicum repens</i>	H	FACW	9		
3 <i>Bacopa caroliniana</i>	H	OBL	10		
4 <i>Andropogon glomeratus</i>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
---	---

Remarks: Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.

SOILS

Map Unit Name (Series and Phase): <u>Pomello fine sand, 0 to 5% slopes</u>	Drainage Class: <u>Vls</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A11	10YR 5/1			Loose fine sand
4-15	A21	10YR 6/1			Loose fine sand

Hydric Soil Indicators:		
☒ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	

Remarks: _____

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	
Community ID: <u>FLUCFCS 625</u>	
Transect ID: <u>212A</u>	
Plot ID: <u>212A</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Pinus elliottii</i>	T	FACW	8 <i>Solidago canadensis</i>	H	FACU
2 <i>Pinus serotina</i>	T	FACW	9 <i>Ilex glabra</i>	S	FACW
3 <i>Sabal palmetto</i>	T	FAC	10 <i>Magnolia virginiana</i>	T	FACW+
4 <i>Acer rubrum</i>	T	OBL	11		
5 <i>Quercus nigra</i>	T	FAC	12		
6 <i>Myrica cerifera</i>	S	FAC+	13		
7 <i>Cephalanthus occidentalis</i>	S	OBL	14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 90%

Remarks: Most of these wetlands have experience grazing by cattle and feral hogs. Diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Placid fine sand, depressional</u>	Drainage Class: <u>Circle</u>				
Taxonomy (Subgroup): <u></u>	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-14	A-11	10YR 2/1			Black fine sand
14-24	A-12	10YR 3/1			Dk. gray fine sand
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: <u></u>					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No	
Wetland Hydrology Present? ☒ Yes ☐ No		
Hydric Soils Present? ☒ Yes ☐ No		
Remarks: <u></u>		

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (dry)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>212B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	H	OBL	8		
2 <i>Cyperus lanceolatus</i>	H	FACW	9		
3 <i>Cyperus surinamensis</i>	H	FACW	10		
4 <i>Ludwigia octovalvis</i>	H	OBL	11		
5 <i>Paspalum notatum</i>	H	UP	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 80%

Remarks: Retention areas sodded with wetland species emerging through bahia squares.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
---	--

Remarks: Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development recently constructed.

SOILS

Map Unit Name (Series and Phase): <u>Placid fine sand, depressional</u>	Drainage Class: <u>IIIw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc.
0-14	A-11	10YR 2/1			Black fine sand
14-24	A-12	10YR 3/1			Dk. gray fine sand

Hydric Soil Indicators:		
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	

Remarks: _____

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	
Community ID: <u>FLUCFCS 630</u>	
Transect ID: <u>212C</u>	
Plot ID: <u>212C</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Acer rubrum</i>	C	FAC	8		
2 <i>Taxodium ascendans</i>	C	OBL	9		
3 <i>Ilex cassine</i>	C	FACW	10		
4 <i>Pinus serotina</i>	H	FACW+	11		
5 <i>Sabal palmetto</i>	H	FAC	12		
6 <i>Magnolia virginiana</i>	S	FACW+	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and feral hogs. Diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Placid fine sand, depressional</u>	Drainage Class: <u>IIIw</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-14	A-11	10YR 2/1			Black fine sand
14-24	A-12	10YR 3/1			Dk. gray fine sand
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>212D</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	H	OBL	8		
2 <i>Saururus cernuus</i>	H	OBL	9		
3 <i>Ludwigia Peruviana</i>	H	OBL	10		
4 <i>Ludwigia octovalvis</i>	H	OBL	11		
5 <i>Panicum repens</i>	H	FACW	12		
6 <i>Salix caroliniana</i>	S	OBL	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and feral hogs. Diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
--	--

Remarks: These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.

SOILS

Map Unit Name (Series and Phase): <u>Placid fine sand, depressional</u>	Drainage Class: <u>IIIw</u> <i>Circle</i>
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No

Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-14	A-11	10YR 2/1			Black fine sand
14-24	A-12	10YR 3/1			Dk. gray fine sand

Hydric Soil Indicators:		
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)

Remarks: _____

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	

Remarks: _____

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (dry)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>213A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Hydrocotyle umbellata</i>	H	OBL	8		
2 <i>Cyperus lanceolatus</i>	H	FACW	9		
3 <i>Cyperus surinamensis</i>	H	FACW	10		
4 <i>Ludwigia octovalvis</i>	H	OBL	11		
5 <i>Paspalum notatum</i>	H	UP	12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 80%

Remarks: Retention areas sodded with wetland species emerging through bahia squares.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: <u>Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development recently constructed.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Symrna fine sand</u>	Drainage Class: <u>IVw</u> <i>Circle</i>				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A-11	N 2/0			Fine sand
4-7	A-12	10YR 4/1		10YR 3/1	Fine sand
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☐ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	
Community ID: <u>FLUCFCS 511 ditches / swales</u>	
Transect ID: <u>213B</u>	
Plot ID: <u>213B</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	H	OBL	8		
2 <i>Saururus cernuus</i>	H	OBL	9		
3 <i>Ludwigia Peruviana</i>	H	OBL	10		
4 <i>Ludwigia octovalvis</i>	H	OBL	11		
5 <i>Panicum repens</i>	H	FACW	12		
6 <i>Salix caroliniana</i>	S	OBL	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and feral hogs. Diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Myakka fine sand</u>	Drainage Class: <u>IVw</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-7	A-1	10YR 3/1			Fine sand
7-27	A-2	10YR 7/1	10YR 3/2		Fine sand
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (wet)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>214A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha Spp.</i>	H	OBL	8		
2 <i>Panicum repens</i>	H	FACW	9		
3 <i>Bacopa caroliniana</i>	H	OBL	10		
4 <i>Andropogon glomeratus</i>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☐ Drainage Patterns in Wetlands Secondary Indicators (2 or more required): ☒ Oxidized Root Channels in Upper 12" ☐ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)	
Remarks: <u>Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Symrna fine sand</u>	Drainage Class: <u>IVw</u>				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? <u>Yes</u> ☐ No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A-11	N 2/0			Fine sand
4-7	A-12	10YR 4/1		10YR 3/1	Fine sand
Hydric Soil Indicators: ☒ Histosol ☐ Histic Epipedon ☐ Sulfidic Odor ☒ Aquic Moisture Regime ☒ Reducing Conditions ☒ Gleyed or Low-Chroma Colors ☒ Concretions ☐ Organic Streaking in Sandy Soils ☐ High Organic Content in Surface Layer in Sandy Soils ☐ Listed on National Hydric Soils List ☐ Listed on Local Hydric Soils List ☐ Other (explain in remarks)					
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 534 (wet)</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	Plot ID: <u>214B</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Typha Spp.</i>	H	OBL	8		
2 <i>Panicum repens</i>	H	FACW	9		
3 <i>Bacopa caroliniana</i>	H	OBL	10		
4 <i>Andropogon glomeratus</i>	H	FACW	11		
5			12		
6			13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

Remarks: Most of the wetland plants are subject to cattle grazing which may affect species diversity,

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <table border="0"><tr><td>☒ Inundated</td><td>☒ Oxidized Root Channels in Upper 12"</td></tr><tr><td>☒ Saturated in Upper 12 inches</td><td>☐ Water-Stained Leaves</td></tr><tr><td>☐ Water Marks</td><td>☐ Local Soil Survey Data</td></tr><tr><td>☐ Drift Lines</td><td>☒ FAC-Neutral Test</td></tr><tr><td>☐ Sediment Deposits</td><td>☐ Other (explain in remarks)</td></tr><tr><td>☐ Drainage Patterns in Wetlands</td><td></td></tr></table>	☒ Inundated	☒ Oxidized Root Channels in Upper 12"	☒ Saturated in Upper 12 inches	☐ Water-Stained Leaves	☐ Water Marks	☐ Local Soil Survey Data	☐ Drift Lines	☒ FAC-Neutral Test	☐ Sediment Deposits	☐ Other (explain in remarks)	☐ Drainage Patterns in Wetlands	
☒ Inundated	☒ Oxidized Root Channels in Upper 12"												
☒ Saturated in Upper 12 inches	☐ Water-Stained Leaves												
☐ Water Marks	☐ Local Soil Survey Data												
☐ Drift Lines	☒ FAC-Neutral Test												
☐ Sediment Deposits	☐ Other (explain in remarks)												
☐ Drainage Patterns in Wetlands													
Field Observations: Depth of Surface Water: <u>36+</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0</u> (In.)													
Remarks: Reservoirs area used as compensating storage / retention ponds associated with I-4 access and Celebration development.													

SOILS

Map Unit Name (Series and Phase): <u>Symrna fine sand</u>	Drainage Class: <u>IVw</u> Circle																
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No																
Profile Description:																	
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.												
0-4	A-11	N 2/0			Fine sand												
4-7	A-12	10YR 4/1		10YR 3/1	Fine sand												
Hydric Soil Indicators: <table border="0" style="width: 100%;"><tr><td>☒ Histosol</td><td>☒ Reducing Conditions</td><td>☐ High Organic Content in Surface Layer in Sandy Soils</td></tr><tr><td>☐ Histic Epipedon</td><td>☒ Gleyed or Low-Chroma Colors</td><td>☐ Listed on National Hydric Soils List</td></tr><tr><td>☐ Sulfidic Odor</td><td>☒ Concretions</td><td>☐ Listed on Local Hydric Soils List</td></tr><tr><td>☒ Aquic Moisture Regime</td><td>☐ Organic Streaking in Sandy Soils</td><td>☐ Other (explain in remarks)</td></tr></table>						☒ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils	☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List	☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List	☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)
☒ Histosol	☒ Reducing Conditions	☐ High Organic Content in Surface Layer in Sandy Soils															
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List															
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List															
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)															
Remarks:																	

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks:	

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	Community ID: <u>FLUCFCS 641</u>
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	Transect ID: _____
Is Area a Potential Problem Area? <i>(if needed, explain on reverse)</i> ☐ Yes ☒ No	Plot ID: <u>217A</u>

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	H	OBL	8		
2 <i>Saururus cernuus</i>	H	OBL	9		
3 <i>Ludwigia Peruviana</i>	H	OBL	10		
4 <i>Ludwigia octovalvis</i>	H	OBL	11		
5 <i>Panicum repens</i>	H	FACW	12		
6 <i>Salix caroliniana</i>	S	OBL	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and feral hogs. Diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)	Wetland Hydrology Indicators: <i>Primary Indicators:</i> ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☒ Sediment Deposits ☒ Drainage Patterns in Wetlands <i>Secondary Indicators (2 or more required):</i> ☒ Oxidized Root Channels in Upper 12" ☒ Water-Stained Leaves ☐ Local Soil Survey Data ☒ FAC-Neutral Test ☐ Other (explain in remarks)
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>	

SOILS

Map Unit Name (Series and Phase): <u>Symma fine sand & Placid fine sand, depressional</u> Taxonomy (Subgroup): _____	Drainage Class: <u>IVw, IIIw</u> <i>Circle</i> Field Observations Confirm Mapped Type? Yes No																														
Profile Description: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 10%;">Depth (inches)</th> <th style="width: 10%;">Horizon</th> <th style="width: 20%;">Matrix Color (Munsell Moist)</th> <th style="width: 20%;">Mottle Colors (Munsell Moist)</th> <th style="width: 20%;">Mottle Abundance/Size/Contrast</th> <th style="width: 20%;">Texture, Concretions, Structure, etc.</th> </tr> </thead> <tbody> <tr> <td>0-4</td> <td>A-11</td> <td>N 2/0</td> <td></td> <td></td> <td>Fine sand</td> </tr> <tr> <td>4-7</td> <td>A-12</td> <td>10YR 4/1</td> <td></td> <td>10YR 3/1</td> <td>Fine sand</td> </tr> <tr> <td>0-14</td> <td>A-11</td> <td>10YR 2/1</td> <td></td> <td></td> <td>Black fine sand</td> </tr> <tr> <td>14-24</td> <td>A-12</td> <td>10YR 3/1</td> <td></td> <td></td> <td>Dk. gray fine sand</td> </tr> </tbody> </table>		Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.	0-4	A-11	N 2/0			Fine sand	4-7	A-12	10YR 4/1		10YR 3/1	Fine sand	0-14	A-11	10YR 2/1			Black fine sand	14-24	A-12	10YR 3/1			Dk. gray fine sand
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.																										
0-4	A-11	N 2/0			Fine sand																										
4-7	A-12	10YR 4/1		10YR 3/1	Fine sand																										
0-14	A-11	10YR 2/1			Black fine sand																										
14-24	A-12	10YR 3/1			Dk. gray fine sand																										
Hydric Soil Indicators: <table style="width: 100%; margin-top: 5px;"> <tr> <td style="width: 33%;">☒ Histosol</td> <td style="width: 33%;">☒ Reducing Conditions</td> <td style="width: 33%;">☒ High Organic Content in Surface Layer in Sandy Soils</td> </tr> <tr> <td>☐ Histic Epipedon</td> <td>☒ Gleyed or Low-Chroma Colors</td> <td>☐ Listed on National Hydric Soils List</td> </tr> <tr> <td>☐ Sulfidic Odor</td> <td>☒ Concretions</td> <td>☐ Listed on Local Hydric Soils List</td> </tr> <tr> <td>☒ Aquic Moisture Regime</td> <td>☐ Organic Streaking in Sandy Soils</td> <td>☐ Other (explain in remarks)</td> </tr> </table>		☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils	☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List	☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List	☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)																		
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils																													
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List																													
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List																													
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)																													
Remarks: _____																															

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☒ Yes	☐ No	Is this Sampling Point Within a Wetland?	☒ Yes	☐ No
Wetland Hydrology Present?	☒ Yes	☐ No			
Hydric Soils Present?	☒ Yes	☐ No			
Remarks: _____					

Form Content Approved by HQUSACE 3/92

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project Site: <u>063-7654-0130 - Osceola Sub to Cane Island Tap T-line Corridor</u>	Date: <u>December 07</u>
Applicant/Owner: <u>Orlando Utilities Commission (OUC)</u>	County: <u>Osceola</u>
Investigator: <u>M. Arrants</u>	State: <u>Florida</u>
Do Normal Circumstances exist on the site? ☐ Yes ☒ No	
Is the site significantly disturbed (Atypical Situation)? ☒ Yes ☐ No	
Is Area a Potential Problem Area? (if needed, explain on reverse) ☐ Yes ☒ No	
Community ID: <u>FLUCFCS 641</u>	
Transect ID: <u>217B</u>	
Plot ID: <u>217B</u>	

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1 <i>Juncus effusus</i>	H	OBL	8		
2 <i>Saururus cernuus</i>	H	OBL	9		
3 <i>Ludwigia Peruviana</i>	H	OBL	10		
4 <i>Ludwigia octovalvis</i>	H	OBL	11		
5 <i>Panicum repens</i>	H	FACW	12		
6 <i>Salix caroliniana</i>	S	OBL	13		
7			14		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): 100%

Remarks: Most of these wetlands have experience grazing by cattle and feral hogs. Diversity could be biased.

HYDROLOGY

☐ Recorded Data (describe in Remarks) ☐ Stream, Lake, or Tide Gauge ☒ Aerial Photographs ☐ Other ☐ No recorded data available	Wetland Hydrology Indicators: Primary Indicators: <table border="0"><tr><td>☒ Inundated</td><td>☒ Oxidized Root Channels in Upper 12"</td></tr><tr><td>☒ Saturated in Upper 12 inches</td><td>☒ Water-Stained Leaves</td></tr><tr><td>☐ Water Marks</td><td>☐ Local Soil Survey Data</td></tr><tr><td>☐ Drift Lines</td><td>☒ FAC-Neutral Test</td></tr><tr><td>☒ Sediment Deposits</td><td>☐ Other (explain in remarks)</td></tr><tr><td>☒ Drainage Patterns in Wetlands</td><td></td></tr></table>	☒ Inundated	☒ Oxidized Root Channels in Upper 12"	☒ Saturated in Upper 12 inches	☒ Water-Stained Leaves	☐ Water Marks	☐ Local Soil Survey Data	☐ Drift Lines	☒ FAC-Neutral Test	☒ Sediment Deposits	☐ Other (explain in remarks)	☒ Drainage Patterns in Wetlands	
☒ Inundated	☒ Oxidized Root Channels in Upper 12"												
☒ Saturated in Upper 12 inches	☒ Water-Stained Leaves												
☐ Water Marks	☐ Local Soil Survey Data												
☐ Drift Lines	☒ FAC-Neutral Test												
☒ Sediment Deposits	☐ Other (explain in remarks)												
☒ Drainage Patterns in Wetlands													
Field Observations: Depth of Surface Water: <u>0 to 6</u> (In.) Depth to Free Water in Pit: <u>n/a</u> (In.) Depth to Saturated Soil: <u>0 to 12</u> (In.)													
Remarks: <u>These areas impacted by elevated t-line access roads and swales and berms constructed during construction and development of I-4 and Celebration Development.</u>													

SOILS

Map Unit Name (Series and Phase): <u>Symma fine sand & Placid fine sand, depressional</u>	Drainage Class: <u>IVw, IIIw</u> Circle				
Taxonomy (Subgroup): _____	Field Observations Confirm Mapped Type? Yes No				
Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Size/Contrast	Texture, Concretions, Structure, etc.
0-4	A-11	N 2/0			Fine sand
4-7	A-12	10YR 4/1		10YR 3/1	Fine sand
0-14	A-11	10YR 2/1			Black fine sand
14-24	A-12	10YR 3/1			Dk. gray fine sand
Hydric Soil Indicators:					
☒ Histosol	☒ Reducing Conditions	☒ High Organic Content in Surface Layer in Sandy Soils			
☐ Histic Epipedon	☒ Gleyed or Low-Chroma Colors	☐ Listed on National Hydric Soils List			
☐ Sulfidic Odor	☒ Concretions	☐ Listed on Local Hydric Soils List			
☒ Aquic Moisture Regime	☐ Organic Streaking in Sandy Soils	☐ Other (explain in remarks)			
Remarks: _____					

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☒ Yes ☐ No	Is this Sampling Point Within a Wetland? ☒ Yes ☐ No
Wetland Hydrology Present? ☒ Yes ☐ No	
Hydric Soils Present? ☒ Yes ☐ No	
Remarks: _____	

Project Name/No.: 063-7654
 Applicant: OUC County/State: Osceola Co, FL
 Date: 4/2/07 By: M. Arrants, N. Goddard

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Do Normal Circumstances exist on the site	Yes	No	Community ID: FLUCFCS 641 –Freshwater marsh
Is the site significantly disturbed (Atypical Situation)?	Yes	No	Transect ID: Wetland 219-A
Is the area a potential Problem Area?	Yes	No	Plot ID:

VEGETATION

1.	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>	9.	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>
1.	<u>Salix caroliniana</u>	S	OBL	9.			
2.	<u>Ludwigia peruviana</u>	S	OBL	10.			
3.	<u>Cephalanthus occidentalis</u>	S	OBL	11.			
4.	<u>Justicia americana</u>	H	OBL	12.			
5.	<u>Phyla nodiflora</u>	H	OBL	13.			
6.	<u>Polygonum sp.</u>	H	OBL	14.			
7.	<u>Alternanthera philoxeroides</u>	H	OBL	15.			
8.	<u>Panicum repens</u>	H	FACW-	16.			

Percent of Dominant Species that are OBL, FACW, or FAC (except FAC+). 8/8 = 100%

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gage ☒ Aerial Photographs ☐ Other ☒ No Recorded Data Available	Wetland Hydrology Indicators: ☐ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands ☐ Oxidized Root Channels in Upper 12 Inches ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>0</u> (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: <u><12"</u> (in.)	
Remarks:	

SOILS

Map Unit Name:	Holopaw Fine Sand	Drainage Class:	Poorly drained
Taxonomy (Subgroup):		Field Observations Confirm Mapped Type?	Yes No

Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-3	A	10YR 3/2			Fine sand
3-8	A	10YR 4/1			Fine sand
8-19	A	10 YR 7/1	10YR 5/6		Fine sand

Hydric Soil Indicators:	
☐ Histosol	☐ Concretions
☐ Histic Epipedon	☐ High Organic Content in Surface Layer
☐ Sulfidic Odor	☐ Organic Streaking
☐ Probable Aquic Moisture Regime	☐ Listed in Local Hydric Soils List
☐ Reducing Conditions	☐ Listed on National Hydric Soils Lists
☒ Gleyed or Low-Chroma Colors	☐ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is this Sampling Point Within a Wetland?	Yes No
Hydric Soils Present?	Yes No		
Wetland Hydrology Present?	Yes No		

Remarks:

Project Name/No.: 063-7654
 Applicant: OUC County/State: Osceola Co, FL
 Date: 4/2/07 By: M. Arrants, N. Goddard

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Do Normal Circumstances exist on the site	Yes	No	Community ID: <u>FLUCFCS 510 – Channelized Stream</u>
Is the site significantly disturbed (Atypical Situation)?	Yes	No	Transect ID: <u>Wetland 49-A</u>
Is the area a potential Problem Area?	Yes	No	Plot ID: _____

VEGETATION

1.	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>	9.	<u>Dominant Plant Species</u>	<u>Stratum</u>	<u>Indicator</u>
1.	<u>Salix caroliniana</u>	<u>S</u>	<u>OBL</u>	9.	<u>Lindernia grandiflora</u>	<u>H</u>	<u>OBL</u>
2.	<u>Ludwigia octovalvis</u>	<u>S</u>	<u>OBL</u>	10.	<u>Sambucus canadensis</u>	<u>S</u>	<u>FACW-</u>
3.	<u>Alternanthera philoxeroides</u>	<u>H</u>	<u>OBL</u>	11.	_____	_____	_____
4.	<u>Panicum repens</u>	<u>H</u>	<u>FACW-</u>	12.	_____	_____	_____
5.	<u>Ludwigia peruviana</u>	<u>S</u>	<u>OBL</u>	13.	_____	_____	_____
6.	<u>Polygonum sp.</u>	<u>H</u>	<u>OBL</u>	14.	_____	_____	_____
7.	<u>Bacopa monnieri</u>	<u>H</u>	<u>OBL</u>	15.	_____	_____	_____
8.	<u>Typha latifolia</u>	<u>H</u>	_____	16.	_____	_____	_____

Percent of Dominant Species that are OBL, FACW, or FAC (except FAC+). 10/10 = 100%

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks): ☐ Stream, Lake, or Tide Gage ☐ Aerial Photographs ☐ Other ☒ No Recorded Data Available	Wetland Hydrology Indicators: ☒ Inundated ☒ Saturated in Upper 12 inches ☐ Water Marks ☐ Drift Lines ☐ Sediment Deposits ☒ Drainage Patterns in Wetlands ☐ Oxidized Root Channels in Upper 12 Inches ☐ Water-Stained Leaves ☒ Local Soil Survey Data ☐ Other (Explain in Remarks)
Field Observations: Depth of Surface Water: <u>2 – 4'</u> (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: <u>0</u> (in.)	
Remarks:	

SOILS

Map Unit Name:	Holopaw fine sand	Drainage Class:	Poorly drained
Taxonomy (Subgroup):		Field Observations Confirm Mapped Type?	Yes No

Profile Description:					
Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Rhizospheres, etc.
0-3	A	10YR 3/2			Fine sand
3-8	A	10YR 4/1			Fine sand
8-19	A	10 YR 7/1	10YR 5/6		Fine sand

Hydric Soil Indicators:	
☐ Histosol	☐ Concretions
☐ Histic Epipedon	☐ High Organic Content in Surface Layer
☐ Sulfidic Odor	☐ Organic Streaking
☐ Probable Aquic Moisture Regime	☐ Listed in Local Hydric Soils List
☐ Reducing Conditions	☐ Listed on National Hydric Soils Lists
☒ Gleyed or Low-Chroma Colors	☐ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	Yes No	Is this Sampling Point Within a Wetland?	Yes No
Hydric Soils Present?	Yes No		
Wetland Hydrology Present?	Yes No		

Remarks:

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

This form should be completed by following the instructions provided in Section IV of the JD Form Instructional Guidebook.

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD):

B. DISTRICT OFFICE, FILE NAME, AND NUMBER:

C. PROJECT LOCATION AND BACKGROUND INFORMATION: Osceola Substation to Cane Island Tap

State: FL County/parish/borough: Osceola City:

Center coordinates of site (lat/long in degree decimal format): Lat. 28.32106° **N**, Long. -81.557819° **W**.

Universal Transverse Mercator:

Name of nearest waterbody: Reedy Creek

Name of nearest Traditional Navigable Water (TNW) into which the aquatic resource flows: Lake Marion

Name of watershed or Hydrologic Unit Code (HUC): Reedy Creek

☐ Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.

☐ Check if other sites (e.g., offsite mitigation sites, disposal sites, etc...) are associated with this action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

☒ Office (Desk) Determination. Date: 4-29-08

☐ Field Determination. Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION.

There **Are no** "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area. [Required]

☐ Waters subject to the ebb and flow of the tide.

☐ Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain: .

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There **Are** "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area. [Required]

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area (check all that apply):¹

- ☐ TNWs, including territorial seas
- ☐ Wetlands adjacent to TNWs
- ☐ Relatively permanent waters² (RPWs) that flow directly or indirectly into TNWs
- ☐ Non-RPWs that flow directly or indirectly into TNWs
- ☐ Wetlands directly abutting RPWs that flow directly or indirectly into TNWs
- ☒ Wetlands adjacent to but not directly abutting RPWs that flow directly or indirectly into TNWs
- ☐ Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs
- ☐ Impoundments of jurisdictional waters
- ☐ Isolated (interstate or intrastate) waters, including isolated wetlands

b. Identify (estimate) size of waters of the U.S. in the review area:

Non-wetland waters: linear feet: width (ft) and/or acres.

Wetlands: 24.19 acres.

c. Limits (boundaries) of jurisdiction based on: 1987 Delineation Manual

Elevation of established OHWM (if known): .

2. Non-regulated waters/wetlands (check if applicable):³

- ☒ Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain: **Wetlands 197A, 198A, 198B, 199A, 200A, 201A, 203A, 205A, 212D, 213B, 214A, and 214B (10.71 acres) are stormwater ponds or other systems that were determined to be isolated from other wetlands, and were considered to be non-jurisdictional.**

¹ Boxes checked below shall be supported by completing the appropriate sections in Section III below.

² For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³ Supporting documentation is presented in Section III.F.

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

The agencies will assert jurisdiction over TNWs and wetlands adjacent to TNWs. If the aquatic resource is a TNW, complete Section III.A.1 and Section III.D.1. only; if the aquatic resource is a wetland adjacent to a TNW, complete Sections III.A.1 and 2 and Section III.D.1.; otherwise, see Section III.B below.

1. TNW

Identify TNW: _____.

Summarize rationale supporting determination: _____.

2. Wetland adjacent to TNW

Summarize rationale supporting conclusion that wetland is “adjacent”: _____.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):

This section summarizes information regarding characteristics of the tributary and its adjacent wetlands, if any, and it helps determine whether or not the standards for jurisdiction established under *Rapanos* have been met.

The agencies will assert jurisdiction over non-navigable tributaries of TNWs where the tributaries are “relatively permanent waters” (RPWs), i.e. tributaries that typically flow year-round or have continuous flow at least seasonally (e.g., typically 3 months). A wetland that directly abuts an RPW is also jurisdictional. If the aquatic resource is not a TNW, but has year-round (perennial) flow, skip to Section III.D.2. If the aquatic resource is a wetland directly abutting a tributary with perennial flow, skip to Section III.D.4.

A wetland that is adjacent to but that does not directly abut an RPW requires a significant nexus evaluation. Corps districts and EPA regions will include in the record any available information that documents the existence of a significant nexus between a relatively permanent tributary that is not perennial (and its adjacent wetlands if any) and a traditional navigable water, even though a significant nexus finding is not required as a matter of law.

If the waterbody⁴ is not an RPW, or a wetland directly abutting an RPW, a JD will require additional data to determine if the waterbody has a significant nexus with a TNW. If the tributary has adjacent wetlands, the significant nexus evaluation must consider the tributary in combination with all of its adjacent wetlands. This significant nexus evaluation that combines, for analytical purposes, the tributary and all of its adjacent wetlands is used whether the review area identified in the JD request is the tributary, or its adjacent wetlands, or both. If the JD covers a tributary with adjacent wetlands, complete Section III.B.1 for the tributary, Section III.B.2 for any onsite wetlands, and Section III.B.3 for all wetlands adjacent to that tributary, both onsite and offsite. The determination whether a significant nexus exists is determined in Section III.C below.

1. Characteristics of non-TNWs that flow directly or indirectly into TNW

(i) General Area Conditions:

Watershed size: **Pick List**

Drainage area: **Pick List**

Average annual rainfall: _____ inches

Average annual snowfall: _____ inches

(ii) Physical Characteristics:

(a) Relationship with TNW:

☐ Tributary flows directly into TNW.

☐ Tributary flows through **Pick List** tributaries before entering TNW.

Project waters are **Pick List** river miles from TNW.

Project waters are **Pick List** river miles from RPW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Project waters are **Pick List** aerial (straight) miles from RPW.

Project waters cross or serve as state boundaries. Explain: _____.

Identify flow route to TNW⁵: _____.

Tributary stream order, if known: _____.

⁴ Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵ Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

(b) General Tributary Characteristics (check all that apply):

Tributary is: ☐ Natural
☐ Artificial (man-made). Explain: .
☐ Manipulated (man-altered). Explain: .

Tributary properties with respect to top of bank (estimate):

Average width: feet
Average depth: feet
Average side slopes: **Pick List**.

Primary tributary substrate composition (check all that apply):

☐ Silts ☐ Sands ☐ Concrete
☐ Cobbles ☐ Gravel ☐ Muck
☐ Bedrock ☐ Vegetation. Type/% cover:
☐ Other. Explain: .

Tributary condition/stability [e.g., highly eroding, sloughing banks]. Explain: .

Presence of run/riffle/pool complexes. Explain: .

Tributary geometry: **Pick List**

Tributary gradient (approximate average slope): %

(c) Flow:

Tributary provides for: **Pick List**

Estimate average number of flow events in review area/year: **Pick List**

Describe flow regime: .

Other information on duration and volume: .

Surface flow is: **Pick List. Characteristics:** .

Subsurface flow: **Pick List. Explain findings:** .

☐ Dye (or other) test performed: .

Tributary has (check all that apply):

☐ Bed and banks
☐ OHWM⁶ (check all indicators that apply):
☐ clear, natural line impressed on the bank ☐ the presence of litter and debris
☐ changes in the character of soil ☐ destruction of terrestrial vegetation
☐ shelving ☐ the presence of wrack line
☐ vegetation matted down, bent, or absent ☐ sediment sorting
☐ leaf litter disturbed or washed away ☐ scour
☐ sediment deposition ☐ multiple observed or predicted flow events
☐ water staining ☐ abrupt change in plant community
☐ other (list):
☐ Discontinuous OHWM.⁷ Explain: .

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction (check all that apply):

☒ High Tide Line indicated by: ☐ Mean High Water Mark indicated by:
☐ oil or scum line along shore objects ☐ survey to available datum;
☐ fine shell or debris deposits (foreshore) ☐ physical markings;
☐ physical markings/characteristics ☐ vegetation lines/changes in vegetation types.
☐ tidal gauges
☐ other (list):

(iii) **Chemical Characteristics:**

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

Explain: .

Identify specific pollutants, if known: .

⁶A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷Ibid.

(iv) **Biological Characteristics. Channel supports (check all that apply):**

- ☐ Riparian corridor. Characteristics (type, average width): .
- ☐ Wetland fringe. Characteristics: .
- ☐ Habitat for:
 - ☐ Federally Listed species. Explain findings: .
 - ☐ Fish/spawn areas. Explain findings: .
 - ☐ Other environmentally-sensitive species. Explain findings: .
 - ☐ Aquatic/wildlife diversity. Explain findings: .

2. **Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW**

(i) **Physical Characteristics:**

(a) General Wetland Characteristics:

Properties:

Wetland size: acres

Wetland type. Explain: .

Wetland quality. Explain: .

Project wetlands cross or serve as state boundaries. Explain: .

(b) General Flow Relationship with Non-TNW:

Flow is: **Pick List**. Explain: .

Surface flow is: **Pick List**

Characteristics: .

Subsurface flow: **Pick List**. Explain findings: .

☐ Dye (or other) test performed: .

(c) Wetland Adjacency Determination with Non-TNW:

☐ Directly abutting

☐ Not directly abutting

☐ Discrete wetland hydrologic connection. Explain: .

☐ Ecological connection. Explain: .

☐ Separated by berm/barrier. Explain: .

(d) Proximity (Relationship) to TNW

Project wetlands are **Pick List** river miles from TNW.

Project waters are **Pick List** aerial (straight) miles from TNW.

Flow is from: **Pick List**.

Estimate approximate location of wetland as within the **Pick List** floodplain.

(ii) **Chemical Characteristics:**

Characterize wetland system (e.g., water color is clear, brown, oil film on surface; water quality; general watershed characteristics; etc.). Explain: .

Identify specific pollutants, if known: .

(iii) **Biological Characteristics. Wetland supports (check all that apply):**

- ☐ Riparian buffer. Characteristics (type, average width): .
- ☐ Vegetation type/percent cover. Explain: .
- ☐ Habitat for:
 - ☐ Federally Listed species. Explain findings: .
 - ☐ Fish/spawn areas. Explain findings: .
 - ☐ Other environmentally-sensitive species. Explain findings: .
 - ☐ Aquatic/wildlife diversity. Explain findings: .

3. **Characteristics of all wetlands adjacent to the tributary (if any)**

All wetland(s) being considered in the cumulative analysis: **Pick List**

Approximately () acres in total are being considered in the cumulative analysis.

For each wetland, specify the following:

Directly abuts? (Y/N)

Size (in acres)

Directly abuts? (Y/N)

Size (in acres)

Summarize overall biological, chemical and physical functions being performed: .

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Draw connections between the features documented and the effects on the TNW, as identified in the *Rapanos* Guidance and discussed in the Instructional Guidebook. Factors to consider include, for example:

- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to carry pollutants or flood waters to TNWs, or to reduce the amount of pollutants or flood waters reaching a TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), provide habitat and lifecycle support functions for fish and other species, such as feeding, nesting, spawning, or rearing young for species that are present in the TNW?
- Does the tributary, in combination with its adjacent wetlands (if any), have the capacity to transfer nutrients and organic carbon that support downstream foodwebs?
- Does the tributary, in combination with its adjacent wetlands (if any), have other relationships to the physical, chemical, or biological integrity of the TNW?

Note: the above list of considerations is not inclusive and other functions observed or known to occur should be documented below:

1. **Significant nexus findings for non-RPW that has no adjacent wetlands and flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary itself, then go to Section III.D: .
2. **Significant nexus findings for non-RPW and its adjacent wetlands, where the non-RPW flows directly or indirectly into TNWs.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: .
3. **Significant nexus findings for wetlands adjacent to an RPW but that do not directly abut the RPW.** Explain findings of presence or absence of significant nexus below, based on the tributary in combination with all of its adjacent wetlands, then go to Section III.D: Wetlands 196C-A, 196C-B, 196E-A, 196F-A, 196F-B, 198-C, 199B, 199C, 202A, 202B, 204A, 206A, 206B, 206C, 207A, 207B, 208A, 210A, 212A, 212B, 212C, 213A, 218A, 218B, 219A, and 49A are located within the Reedy Creek watershed, and are wetlands adjacent to but not directly abutting Reedy Creek, an RPW that flows directly into several TNWs. Reedy Creek originates in the vicinity of Reedy Lake immediately west of Walt Disney World, and is a major tributary to the Kissimmee chain of lakes (Lake Hatchineha, Lake Tohopekaliga, East Lake Tohopekaliga, Cypress Lake, and Lake Kissimmee, all TNWs). Swamps surrounding Reedy Creek, including the wetlands within the review area are contiguous with these TNWs and Lake Marion, a TNW located west of the Kissimmee chain of lakes. Because Reedy Creek and adjacent wetlands are a major tributary to these lakes, flow volume, flow frequency, and flow duration of Reedy Creek is significant to the water levels of these lakes. Reedy Creek provides significant habitat and life cycle support functions for wildlife present in the TNWs, and provides nutrients and organic carbon to downstream foodwebs. Reedy Creek contributes significantly to the physical, chemical, and biological integrity of the TNWs.

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE (CHECK ALL THAT APPLY):

1. **TNWs and Adjacent Wetlands.** Check all that apply and provide size estimates in review area:
☐ TNWs: linear feet width (ft), Or, acres.
☐ Wetlands adjacent to TNWs: acres.

2. **RPWs that flow directly or indirectly into TNWs.**

- ☐ Tributaries of TNWs where tributaries typically flow year-round are jurisdictional. Provide data and rationale indicating that tributary is perennial: .
- ☐ Tributaries of TNW where tributaries have continuous flow “seasonally” (e.g., typically three months each year) are jurisdictional. Data supporting this conclusion is provided at Section III.B. Provide rationale indicating that tributary flows seasonally: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
- Identify type(s) of waters: .

3. **Non-RPWs⁸ that flow directly or indirectly into TNWs.**

- ☐ Waterbody that is not a TNW or an RPW, but flows directly or indirectly into a TNW, and it has a significant nexus with a TNW is jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional waters within the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
- Identify type(s) of waters: .

4. **Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.**

- ☐ Wetlands directly abut RPW and thus are jurisdictional as adjacent wetlands.
- ☐ Wetlands directly abutting an RPW where tributaries typically flow year-round. Provide data and rationale indicating that tributary is perennial in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .
- ☐ Wetlands directly abutting an RPW where tributaries typically flow “seasonally.” Provide data indicating that tributary is seasonal in Section III.B and rationale in Section III.D.2, above. Provide rationale indicating that wetland is directly abutting an RPW: .

Provide acreage estimates for jurisdictional wetlands in the review area: acres.

5. **Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs.**

- ☒ Wetlands that do not directly abut an RPW, but when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide acreage estimates for jurisdictional wetlands in the review area: **24.19** acres.

6. **Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs.**

- ☐ Wetlands adjacent to such waters, and have when considered in combination with the tributary to which they are adjacent and with similarly situated adjacent wetlands, have a significant nexus with a TNW are jurisdictional. Data supporting this conclusion is provided at Section III.C.

Provide estimates for jurisdictional wetlands in the review area: acres.

7. **Impoundments of jurisdictional waters.⁹**

As a general rule, the impoundment of a jurisdictional tributary remains jurisdictional.

- ☐ Demonstrate that impoundment was created from “waters of the U.S.,” or
- ☐ Demonstrate that water meets the criteria for one of the categories presented above (1-6), or
- ☐ Demonstrate that water is isolated with a nexus to commerce (see E below).

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS, INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS (CHECK ALL THAT APPLY):¹⁰

⁸See Footnote # 3.

⁹To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

- ☐ which are or could be used by interstate or foreign travelers for recreational or other purposes.
- ☐ from which fish or shellfish are or could be taken and sold in interstate or foreign commerce.
- ☐ which are or could be used for industrial purposes by industries in interstate commerce.
- ☐ Interstate isolated waters. Explain: .
- ☐ Other factors. Explain: .

Identify water body and summarize rationale supporting determination: .

Provide estimates for jurisdictional waters in the review area (check all that apply):

- ☐ Tributary waters: linear feet width (ft).
- ☐ Other non-wetland waters: acres.
Identify type(s) of waters: .
- ☐ Wetlands: acres.

F. NON-JURISDICTIONAL WATERS, INCLUDING WETLANDS (CHECK ALL THAT APPLY):

- ☐ If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements.
- ☐ Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce.
 - ☐ Prior to the Jan 2001 Supreme Court decision in “*SWANCC*,” the review area would have been regulated based solely on the “Migratory Bird Rule” (MBR).
- ☒ Waters do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction. Explain: **Wetlands 197A, 198A, 198B, 199A, 200A, 201A, 203A, 205A, 212D, 213B, 214A, and 214B were determined to be isolated from other wetlands, and did not appear to contribute substantially to Reedy Creek or its watershed.**
- ☐ Other: (explain, if not covered above): .

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (i.e., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet width (ft).
- ☐ Lakes/ponds: acres.
- ☐ Other non-wetland waters: acres. List type of aquatic resource: .
- ☐ Wetlands: acres.

Provide acreage estimates for non-jurisdictional waters in the review area that do not meet the “Significant Nexus” standard, where such a finding is required for jurisdiction (check all that apply):

- ☐ Non-wetland waters (i.e., rivers, streams): linear feet, width (ft).
- ☐ Lakes/ponds: acres.
- ☐ Other non-wetland waters: acres. List type of aquatic resource: .
- ☒ Wetlands: 10.71 acres.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD (check all that apply - checked items shall be included in case file and, where checked and requested, appropriately reference sources below):

- ☒ Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: .
- ☒ Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - ☐ Office concurs with data sheets/delineation report.
 - ☐ Office does not concur with data sheets/delineation report.
- ☐ Data sheets prepared by the Corps: .
- ☐ Corps navigable waters’ study: .
- ☒ U.S. Geological Survey Hydrologic Atlas: .
 - ☐ USGS NHD data.
 - ☒ USGS 8 and 12 digit HUC maps.
- ☒ U.S. Geological Survey map(s). Cite scale & quad name: 1:24000, Intercession City.
- ☐ USDA Natural Resources Conservation Service Soil Survey. Citation: .
- ☐ National wetlands inventory map(s). Cite name: .
- ☐ State/Local wetland inventory map(s): .
- ☐ FEMA/FIRM maps: .

¹⁰ Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.

- ☐ 100-year Floodplain Elevation is: (National Geodetic Vertical Datum of 1929)
- ☒ Photographs: ☒ Aerial (Name & Date): Google Earth, 2008.
or ☐ Other (Name & Date): .
- ☐ Previous determination(s). File no. and date of response letter: .
- ☐ Applicable/supporting case law: .
- ☐ Applicable/supporting scientific literature: .
- ☒ Other information (please specify): 1:150,000 USGS topographic map, Florida Atlas & Gazetteer, 2003.

B. ADDITIONAL COMMENTS TO SUPPORT JD: .