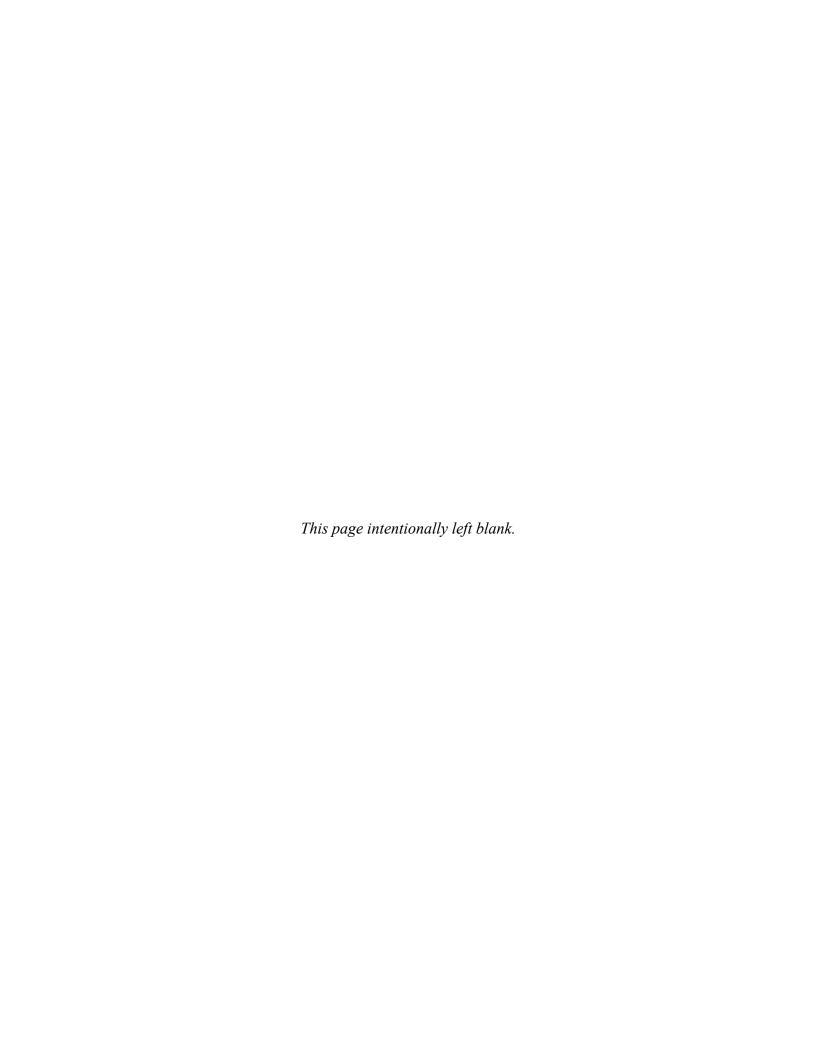
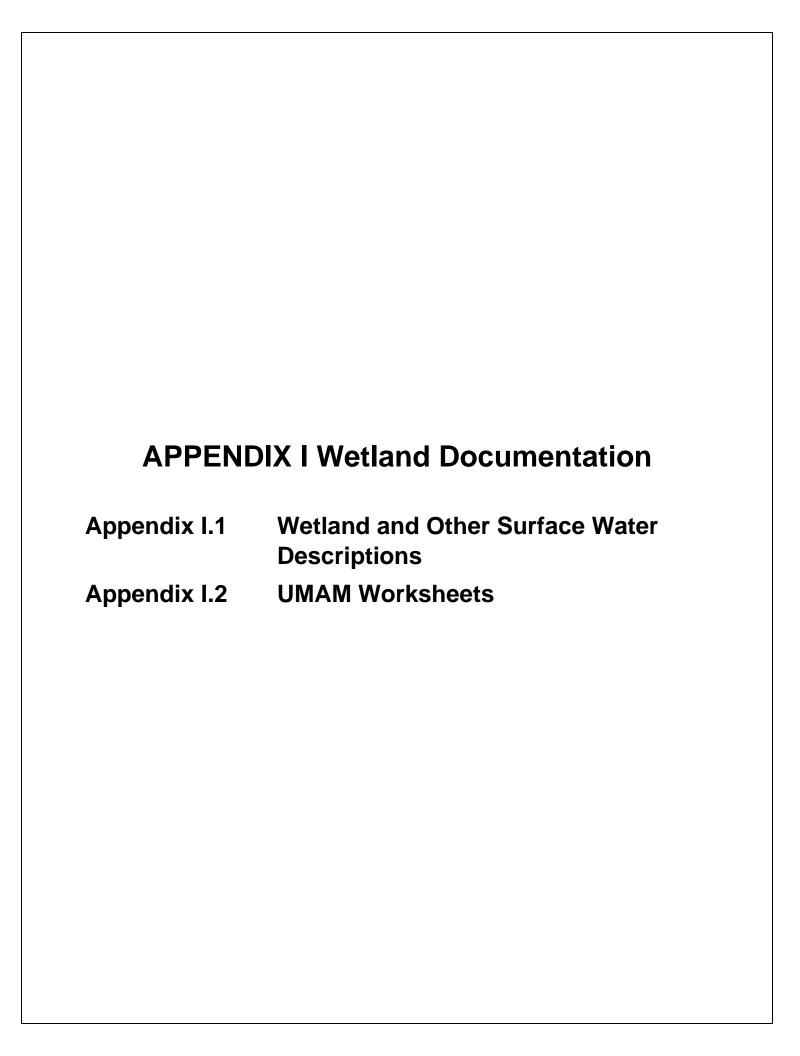
Final Environmental Assessment for Phase II Air Cargo Facility Development

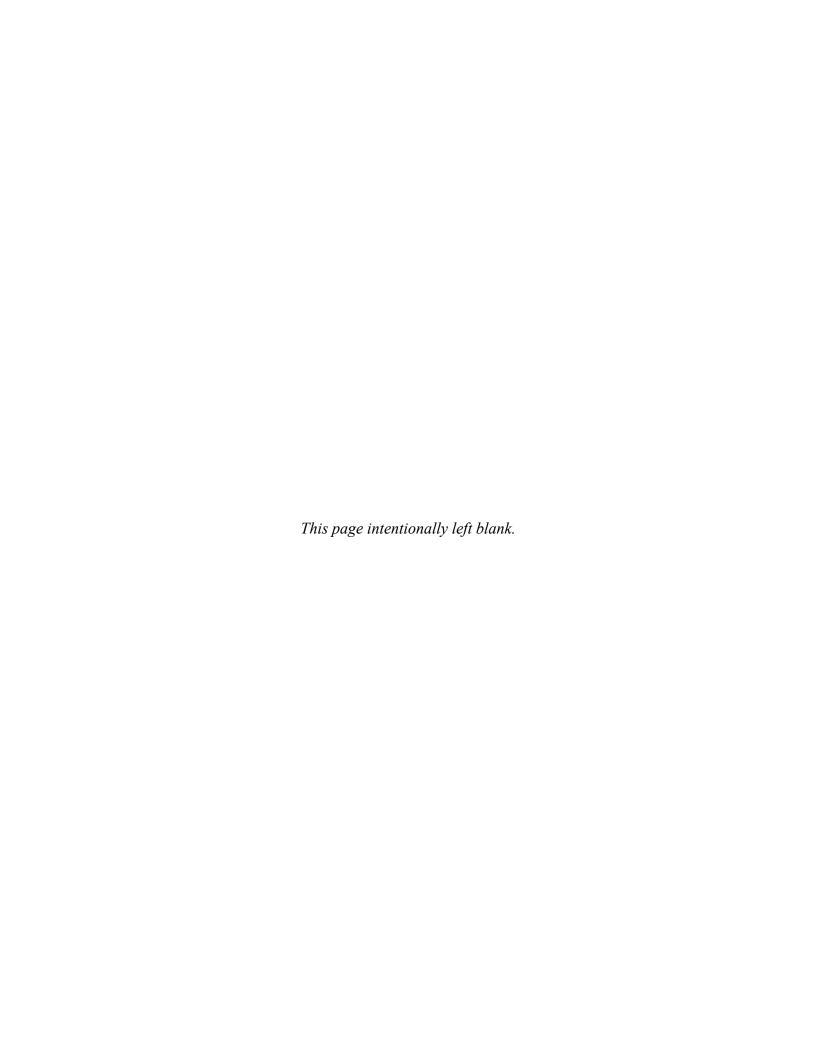
Volume 2: Appendix I

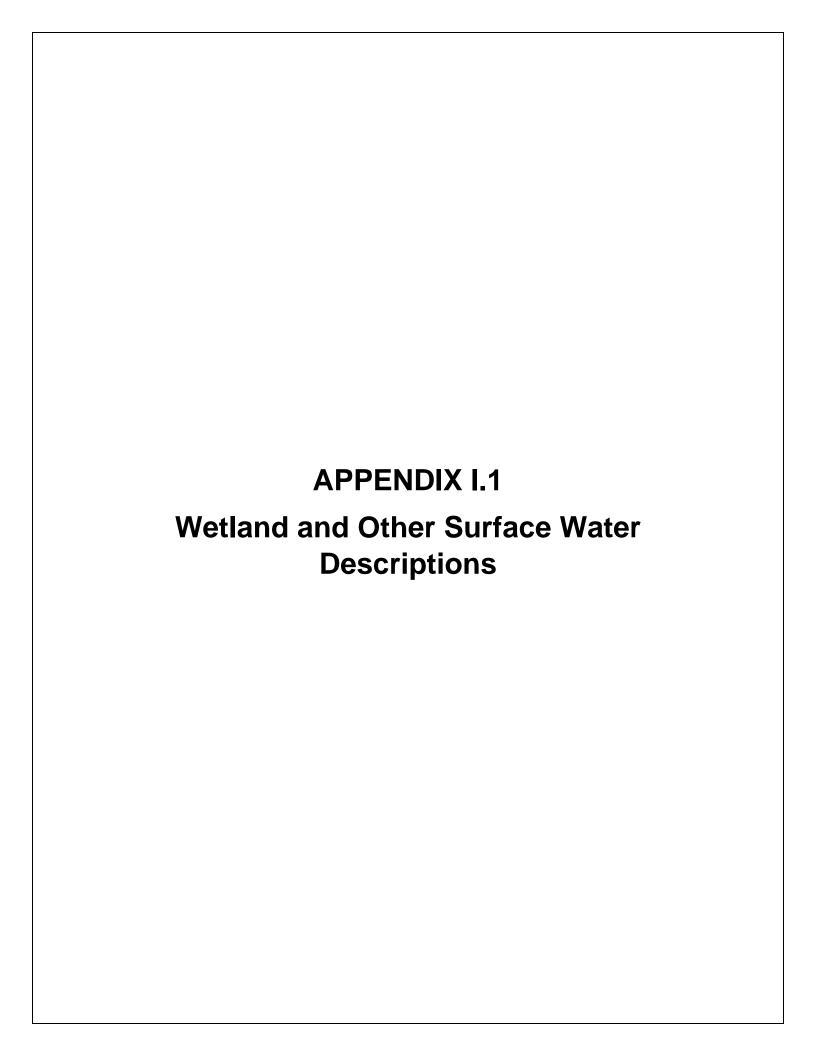
Lakeland Linder International Airport Polk County, Florida

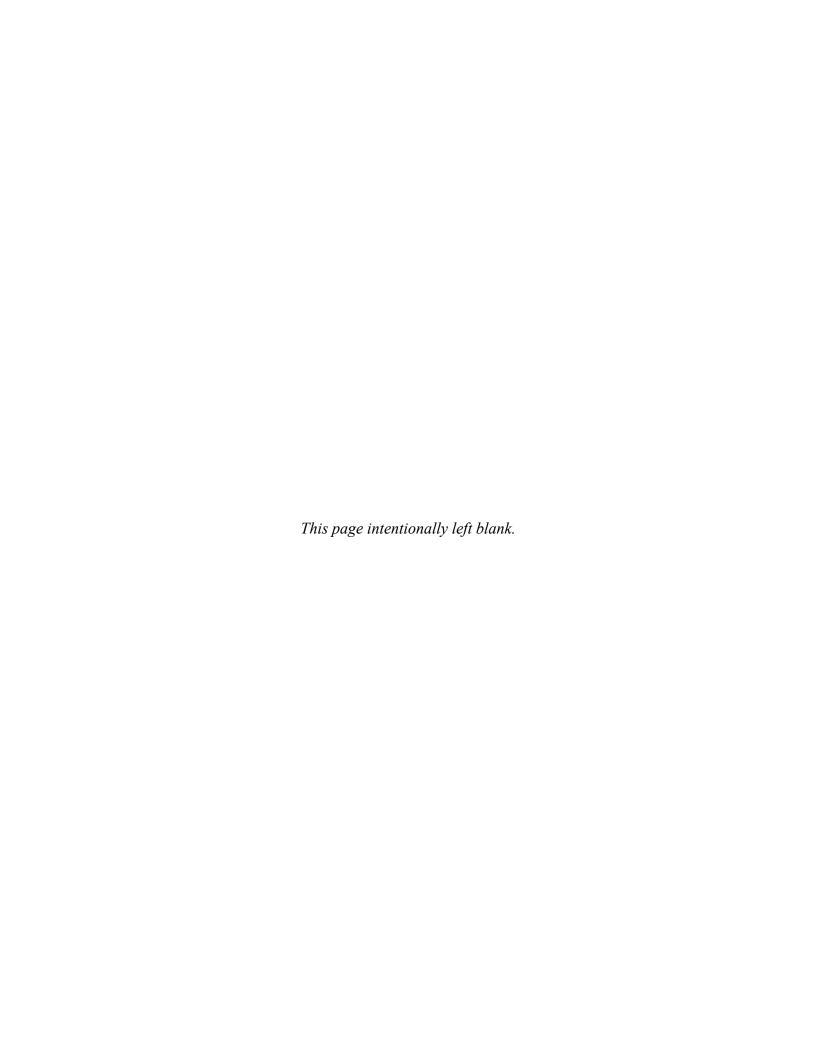
October 2021











			Acres
ID	FLUCFCS Code and Description ¹	USFWS Classification ²	in BSA
Wetland	ds		
WL 1	630 – Wetland Forested Mixed	PFO1/3C	5.6
WL 2	621 - Cypress / 631 - Wetland Scrub	PFO2C / PFO1/2C	11.5
WL 6	631 – Wetland Scrub	PFO1/2C	11.2
		TOTAL WETLANDS:	28.3
Other S	urface Waters		
Ditch 1	510 – Streams and waterways	PUBx	0.3
	TOTAL 01	THER SURFACE WATERS:	0.3

Wetlands and Other Surface Waters within the BSA

Wetland 1 (WL 1)

FLUCFCS: 630 – Wetland Forested Mixed

USFWS: PFO1/3C - Palustrine, Forested, Broad-leaved Deciduous/Needle-leaved Evergreen, Seasonally Flooded

WL 1 is comprised of a forested wetland that predominantly consists of water oak (*Quercus nigra*), laurel oak (*Q. laurifolia*), red maple (*Acer rubrum*), Caroline willow (*Salix caroliniana*), slash pine (*Pinus elliottii*), Virginia chain fern (*Woodwardia virginica*), and primrose willow (*Ludwigia peruviana*). WL 1 is located directly south of Drane Field Road on the east side of Kelvin Howard Road. An upland-cut drainage ditch within WL 1 flows north to south underneath Drane Field Road. To facilitate drainage of this poorly drained site with high groundwater levels, the USACE constructed a series of relatively deep drainage ditches between 1941 and 1945, including the one that runs through the eastern portion of WL 1. The ditches served to lower groundwater levels at the site, and to provide more efficient conveyance for flows from off-site areas north of Drane Field Road. WL 1 comprises approximately 5.6 acres of the BSA.

WL 2

FLUCFCS: 621 - Cypress / 631 - Wetland Scrub

USFWS: PFO2C / PFO1/2C - Palustrine, Forested, Needle-leaved Deciduous, Seasonally Flooded / Palustrine, Forested, Broad-leaved/Needle-leaved Deciduous, Seasonally Flooded

Historically a forested wetland, WL 2 has been cleared of canopy species in the past and is currently identified as a scrub wetland. However, during the April 2020 field review, WL 2 appeared to be succeeding back into a forested wetland with a cypress dome near the center. WL 2 is an isolated system located on the west side of Kelvin Howard Road and is adjacent to a stormwater management facility to the west outside of the BSA. Dominant vegetation within WL 2 includes bald cypress (*Taxodium distichum*), red maple, sweet bay (*Magnolia virginiana*), saltbush (*Baccharis halimifolia*), elderberry (*Sambucus canadensis*), and Virginia chain fern. The fringe of WL 2 consists predominantly of Brazilian pepper (*Schinus terebinthifolia*), peppervine (*Nekemias arborea*), cogon grass (*Imperata cylindrica*), and wax myrtle (*Morella cerifera*). During the wet season, water flows through a shallow drainage ditch in the southern portion of the wetland that flows from east to west and consists of primrose willow, alligatorweed (*Alternanthera philoxeroides*), Carolina willow, and soft rush (*Juncus effusus*). WL 2 comprises approximately 11.5 acres of the BSA.

¹ FDOT, Florida Land Use, Cover and Forms Classification System (FLUCFCS) Handbook, 1999.

² Cowardin, Lewis M., et.al. U.S. Fish and Wildlife Service Classification of Wetlands and Deepwater Habitats of the United States. 1979.

<u>WL 6</u>

FLUCFCS: 631 - Wetland Scrub

USFWS: PFO1/2C - Palustrine, Forested, Broad-leaved/Needle-leaved Deciduous,

Seasonally Flooded

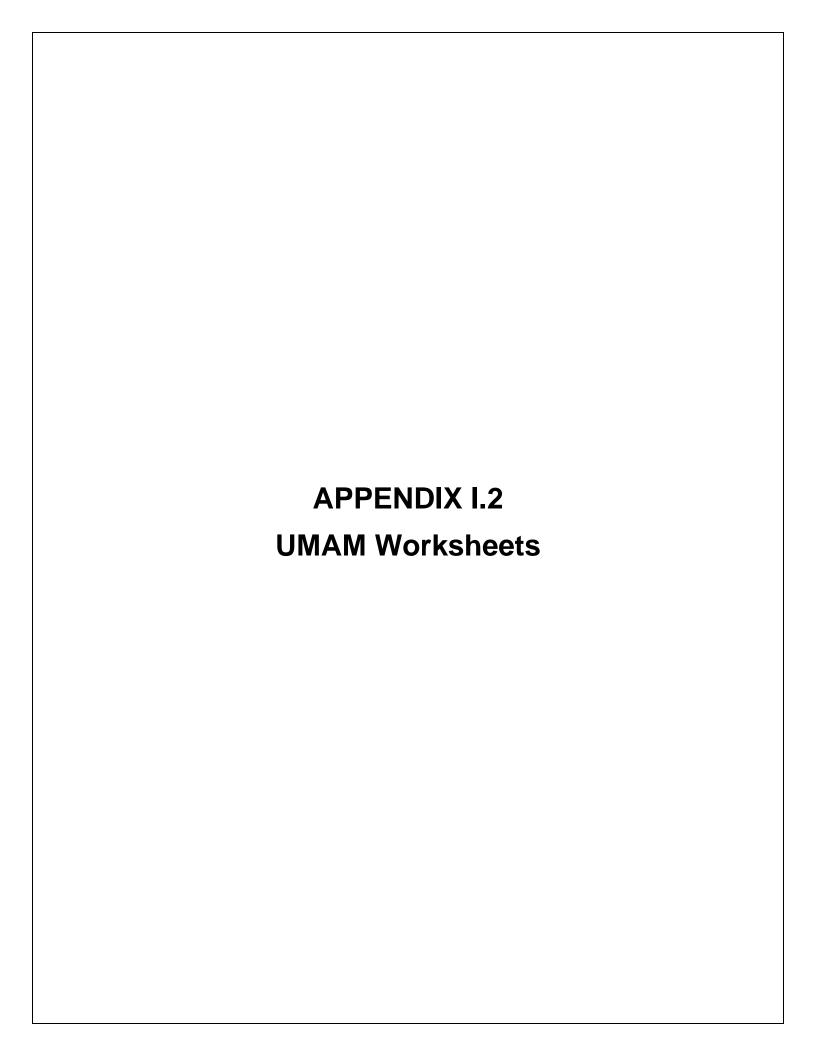
Similar to WL 2, WL 6 historically was a forested wetland but is now a scrub wetland due to historic clearing of canopy species. However, during the April 2020 field review, WL 6 appeared to be succeeding back into a forested wetland. WL 6 is an isolated system located on the east side of Kelvin Howard Road south of Air Park Drive. Dominant vegetation within WL 6 includes bald cypress, red maple, sweet bay, saltbush, elderberry, primrose willow, and Virginia chain fern. WL 6 comprises approximately 11.2 acres of the BSA.

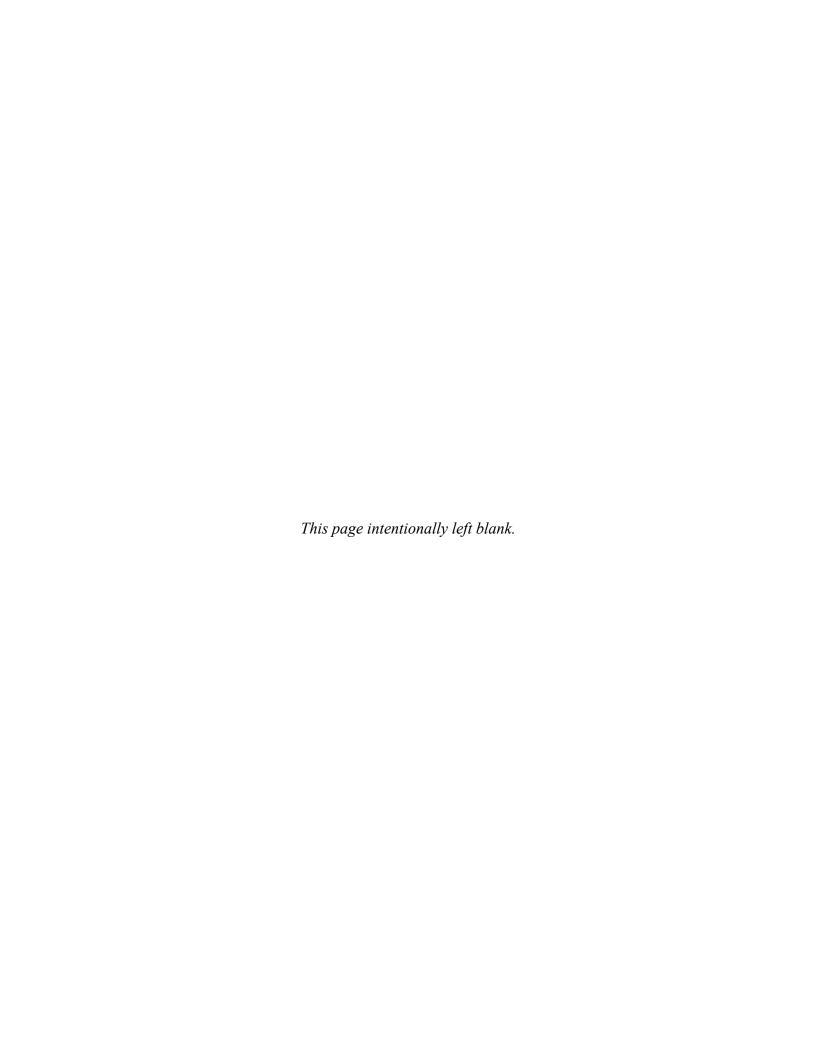
Ditch 1

FLUCFCS: 510 – Streams and Waterways

USFWS: PUBx - Palustrine, Unconsolidated Bottom, Excavated

Ditch 1 is an upland-cut drainage ditch that is seasonally inundated by surface water during the wet season and intermittently flooded after rainfall events in the dry season. This ditch is located in the proposed fuel area and consists of steep slopes and a sandy bottom. Vegetation within the ditch consists of primrose willow, camphorweed (*Pluchea rosea*), elderberry, pennywort (*Hydrocotyle* spp.), and dogfennel (*Eupatorium capillifolium*). Ditch 1 is part of a stormwater management system that directs water into the stormwater pond directly south of the ditch. It is under the jurisdiction of the SWFWMD through Environmental Resource Permit (ERP) Number 49002237.068 issued in October 2010. This ditch comprises approximately 0.3 acre of the BSA. During the April 29, 2020 field review, the ditch was inundated with approximately 12 inches of water and various fish species were observed.





Site/Project Name	Application Numl	ber		Assessment Area Name or Number			
Phase II Air Cargo Facility De	v elopment at LAL				WI	L 1	
FLUCCs code	Further classifica	ation (optional)		Impa	ct or Mitigation Site?	Assessment Area Size	
630: Wetland Forested Mixed		alustrine, Forested dle-leaved Evergr Flooded	•		Direct Impact	1.2 acres	
Basin/Watershed Name/Number	Affected Waterbody (,	Special Classific	ation	(i.e.OFW, AP, other local/state	e/federal designation of import	
Alafia River	Class II	II			N/A		
Geographic relationship to and hyo	drologic connection with	n wetlands, other	surface water, up	lands			
	VL 1 is bounded b	y Drane Field Rd	l to the		and Kelvin Howard Rd		
Assessment area description							
WL 1 is comprised of a forested	•	antly consists of chain fern, and pri		oak, re	ed maple, Caroline willo	ow, slash pine, Virginia	
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)				
Lakeland Linder International Airport					ea is not considered un nsists of depressional	•	
Functions			Mitigation for pre	ev ious	permit/other historic us	se	
Functions include water quality plant habitat, and	improvement, groundw wildlife foraging habitat	_			None known		
Anticipated Wildlife Utilization Bas species that are representative of expected to be found)		•	· ·	, T, SS	by Listed Species (List SC), type of use, and in		
Snakes, small man	nmals, song birds, frog	js.	Eastern indigo s	nake ((T, foraging, breeding, r wading birds	resting); various listed	
Observed Evidence of Wildlife Ut	ilization (List species di	irectly observed,	or other signs sur	ch as	tracks, droppings, casi	ings, nests, etc.):	
	Evidence of wildlife w	<i>i</i> as not observed	during the April 20	020 fi€	eld review.		
Additional relevant factors:							
Hy drology has been impacted by large ditch and industrial build up to eas			t and south.				
Assessment conducted by:			Assessment date	e(s):			
Tia Norman, AECOM			29-Apr-20				

Site/Project Name Application Phase II Air Cargo Facility Development at LAL		Assess	ment Area Name	or Number	
		7.00000	WL 1		
	ent conducted by:	Assess	sment date:		
Direct Impact	Tia Norman		29-Apr-2	20	
	oderate(7)	Minimal (4		t Present (0)	
indicator is based on what would be suitable for the type of wetland condition is optimal and fully supports wetland/surface water functions wetland		Minimal level of so wetland/surface functions	water wetlar	ion is insufficient to provide nd/surface water functions	
.500(6)(a) Location and Landscape Support WL 1 is located on Airport propert How ard Rd. WL 1 is bounded by I Rd to the west, Phase I developm facility to the east. Surrounding de operations at LAL limit wildlife move	Drane Field Rd to ent of the air car evelopment, airpo	o the north, distu go facility to the ort perimeter fen	rbed land and K south, and a m ncing, and active	Kelvin Howard anufacturing	
The hydrology and water environment within WL 1 supports the functions and provides to wildlife at a marginal capacity. However, a large upland-cut ditch bisects the wetland appears to have had an adverse effect on the hydrology as a whole in the feature. There standing water present in the ditch feature; however, none was observed within the for area of the wetland. The soils observed within this feature were hydric with dark surfact sandy redox and stripped matrix. Water level indicators are not distinct or consistent with expected hydrologic conditions of the wetland feature.					
.500(6)(c)Community structure Beneficial w etland vegetation present including w ater oak, laure nuisance and exotic vegetation w How ever, this species w as primary wo pres or current with 5 0	a number of sucel oak, slash pine ithin this wetland	cessional canop , and Carolina w d w hich consiste	oy and shrub sp rillow . There wa ed of Peruvian p	oecies were as minor orimrose willow.	
Score = sum of above scores/30 (if uplands, divide by 20) current or w/o pres Score = sum of above If preservation as mitigation, Preservation adjustment factor = Adjusted mitigation delta =			act assessment ar acres (1.2) = 0.48		
0.400					
0.400 0.000 If mitigation Delta = [with-current] Time lag (t-factor) =		For mitiga	ation assessment	areas	

Site/Project Name	Application Numl	ber	Assessment Area Name or Number				
Phase II Air Cargo Facility De	v elopment at LAL				WI	L 1	
FLUCCs code	Further classifica	ation (optional)		Impa	act or Mitigation Site?	Assessment Area Size	
630: Wetland Forested Mixed		alustrine, Forested dle-leaved Evergr Flooded			Secondary Impact	0.3 acre	
Basin/Watershed Name/Number	Affected Waterbody (0	,	Special Classific	ation	(i.e.OFW, AP, other local/state	e/federal designation of import	
Alafia River	Class II	II			N/A		
Geographic relationship to and hy	drologic connection with	n wetlands, other	surface water, up	lands			
	VL 1 is bounded b	y Drane Field Rd	l to the		and Kelvin Howard Rd		
Assessment area description							
WL 1 is comprised of a forested	•	antly consists of chain fern, and pri		oak, re	ed maple, Caroline willo	w, slash pine, Virginia	
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)				
Lakeland Linder International Airport					ea is not considered un ensists of depressional	•	
Functions			Mitigation for pre	vious	permit/other historic us	se	
Functions include water quality plant habitat, and	improvement, groundw wildlife foraging habitat	_			None known		
Anticipated Wildlife Utilization Bas species that are representative of expected to be found)		•	· ·	, T, SS	by Listed Species (List SC), type of use, and in		
Snakes, small man	nmals, song birds, frog	ıs.	Eastern indigo snake (T, foraging, breeding, resting); various listed wading birds				
Observed Evidence of Wildlife Ut	ilization (List species di	irectly observed,	or other signs sur	ch as	tracks, droppings, casi	ings, nests, etc.):	
	Evidence of wildlife was not observed during the April 2020 field review.						
Additional relevant factors:							
Hy drology has been impacted by large ditch and industrial build up to eas			t and south.				
Assessment conducted by:			Assessment date	e(s):			
Tia Norman, AECOM		29-Apr-20					

Site/Project Name			Application Number	Assessment Are	ea Name or Number		
Phase II Air Cargo Facility Development at LAL			Application (Validae)	7133331110111 7110	WL 1		
Impact or Mitigation	igo i doint	y bevelopment at EAE	Assessment conducted by:	Assessment da			
,	Secondary	Impact	Tia Norman	Assessment da	29-Apr-20		
Coolinary Impact			na Noman		23-Αρι-20		
Scoring Guidance		Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)		
The scoring of each		Condition is optimal and	Condition is less than	Minimal lavel of augment of	Condition is insufficient		
indicator is based or what would be suitab		fully supports	optimal, but sufficient to maintain most	Minimal level of support of wetland/surface water	to provide		
for the type of wetlan	nd	wetland/surface water functions	wetland/surface water functions functions				
or surface water			functions				
.500(6)(a) Locatio Landscape Sup		How ard Rd. WL 1 is bou Rd to the w est, Phase I facility to the east. Surro	ort property directly south unded by Drane Field Rd to development of the air ca bunding development, airp rildlife movement to and fu	o the north, disturbed lar rgo facility to the south, a ort perimeter fencing, ar	nd and Kelvin How ard and a manufacturing nd active airfield		
w/o pres or current	with						
3	2	1					
.500(6)(b)Water Env (n/a for upland w/o pres or current		to wildlife at a marginal of appears to have had an standing water present area of the wetland. The sandy redox and strippe	er environment within WL capacity. How ever, a larg adverse effect on the hy in the ditch feature; how e e soils observed within the ad matrix. Water level indicaditions of the wetland feature.	e upland-cut ditch bisect drology as a w hole in the ever, none w as observe is feature w ere hydric w cators are not distinct or	ts the w etland and it e feature. There is d w ithin the forested v ith dark surface,		
.500(6)(c)Community 1. Vegetation 2. Benthic Comm w/o pres or current 5	and/or	Beneficial w etland vege because of the hydrolog present including w ater nuisance and exotic veg	tation present include red gy issues a number of suc oak, laurel oak, slash pind getation within this wetlan vas primarily limited to the	ccessional canopy and s e, and Carolina willow . T d which consisted of Pe	shrub species w ere here w as minor ruvian primrose w illow .		
		ı					
Score = sum of a	abov e	If preservation as mit	igation	For impact asses	sment areas		
scores/30 (if upland by 20)	ds, divide	l `		i oi iiipact asses	oment areas		
current		Preservation adjustme	ent ractor =	FL = delta x acres (0.	3) = 0.02		
or w/o pres	with	Adjusted mitigation de	lta =				
0.400	0.333				<u></u>		
		If mitigation		For mitigation ass	esement areas		
Delta = [with-cur	rent]	Time lag (t-factor) =		For mitigation asse	essinent areas		
-0.067		Risk factor =		RFG = delta/(t-factor	x risk) =		

Site/Project Name		Application Number			Assessment Area Name of	or Number	
Phase II Air Cargo Facility De	velonment at LAI				W	2	
That if the early be	voropinioni di Eriz				•		
FLUCCs code	Further classificat	tion (optional)		Impac	t or Mitigation Site?	Assessment Area Size	
621: Cypress		ustrine, Forested, N			Direct Impact	1.4 acres	
	ious, Seasonally F	·100ded					
Basin/Watershed Name/Number	Affected Waterbody (Class	ss)	Special Classification (i.e.OFW, AP, other local/state/federal designation of importance)				
Alafia River	II			N/A			
Geographic relationship to and hyd	rologic connection with	wetlands, other su	ırface water, uplan	ds			
WL 2 is an isolated system located the west outside of the project are the east,		disturbed land and	d Drane Field Rd t	o the r	north, disturbed land and		
Assessment area description							
The assessment area	a comprises the central p	portion of WL 2 an	nd consists of a cyp	ress do	ome dominated by bald	cypress.	
Significant nearby features			Uniqueness (cor landscape.)	sideri	ng the relative rarity in r	elation to the regional	
Lakeland Linde		The assessment area is not considered unique, as surrounding areas consists of depressional wetlands.					
Functions			Mitigation for pre	vious	permit/other historic use		
Functions include water quality im habitat, and wil	provement, groundwate dlife foraging habitat.	r recharge, plant			None known		
Anticipated Wildlife Utilization Bas		•	•		by Listed Species (List s	. •	
that are representative of the assess be found)	ment area and reasona	bly expected to	classification (E, T, SSC), type of use, and intensity of use of the assessment area)				
bo round y			accommunication area;				
Snakes, small mai	mmals, song birds, frogs		Eastern indigo snake (T, foraging, breeding, resting); various listed wading birds				
Observed Evidence of Wildlife Utili	zation (List species direc	ctly observed or of	ther signs such as t	racks	dronnings casings nest	s etc.):	
Observed Evidence of Wildlife Utilization (List species directly observed, or other signs such as tracks, droppings, casings, nests, etc.): Evidence of wildlife was not observed during the April 2020 field review.							
Additional relevant factors:							
The assessment area has been affe	cted by historic clearing	and surrounding (development activ	ities.			
Assessment conducted by:			Assessment date(s):			
Tia Norman, AECOM			29-Apr-20				

Site/Project Name Phase II Air Cargo Facility Development at LAL			Application Number Assessment Area Name or Number			er		
		racility	Development at LAL				WL 2	
Impact or Mitiga				Assessment conducted by:		Assessment date		
	D	irect Im	npact	Tia Norman			29-Apr-20	
Scoring Guid	dance		Optimal (10)	Moderate(7)	Mir	nimal (4)	Not Presen	t (0)
The scoring of			Condition is optimal and	Condition is less than	NAS-S		Condition is ins	ufficient
indicator is ba what would be			fully supports	optimal, but sufficient to maintain most		el of support of surface water	to provid	
for the type of			wetland/surface water functions	wetland/surface water	fu	ınctions	wetland/surfac	
or surface	water			functions			, another	
w/o pres or current 4 .500(6)(b)Wat	er Environ uplands)	with O	and adjacent to a storm is bounded by disturbed Rd to the east, manufact south. Surrounding development to wildlife movement to the hydrology and wate to wildlife at a marginal of the storm of the sto	tem located on Airport prowater management facility and and Drane Field Rd sturing facilities and an art elopment, airport perimeted and from the assessment of any from the assessment of the welland fewards.	y to the we to the nort if icial pond r fencing, nt area.	est outside of the h, disturbed lar I to the west, a and active airfi	he project area and and Kelvin H and LAL airfield field operations and provides be	. WL 2 ow ard to the at LAL
.500(6)(c)Com 1. Veg 2. Benthic w/o pres or current 7	etation and	d/or	The assessment area is present.	dominated by bald cypre	ss with litt	ile to no exotic/i	invasive specie	98
Score = su scores/30 (if	um of abovuplands, o		If preservation as mit	igation,	F	or impact assess	sment areas	
by	20)		Preservation adjustme	ent factor =				
current or w/o pres		with	Adjusted mitigation de	alta —	FL =	delta x acres (1.4	4) = 0.86	
0.600	(0.000	Adjusted Illingation de	ли –				
<u> </u>			If mitigation				1	I
D-#- 1			If mitigation		Fo	or mitigation asse	ssment areas	
Delta = [w	vith-current	ıj	Time lag (t-factor) =		DEO	dolto//t-footore	v riok)	
-0.600 Risk factor =					RFG	G = delta/(t-factor x risk) =		

Site/Project Name	Application Number	Assessment Area Name or Number			or Number	
Phase II Air Cargo Facility De	velopment at LAL				W	L 2
FLUCCs code	Further classificat	,		Impac	et or Mitigation Site?	Assessment Area Size
631: Wetland Scrub		 Palustrine, Fores le-leaved Deciduor Flooded 	•		Direct Impact	10.1 acres
Basin/Watershed Name/Number	Affected Waterbody (Class	ss)	Special Classification	on (i.e.C	DFW, AP, other local/state/federal of	designation of importance)
Alafia River	Class II	II			N/A	
Geographic relationship to and hyd	drologic connection with	wetlands, other s	urface water, uplan	ıds		
		disturbed land and	d Drane Field Rd to	o the r	north, disturbed land an	
Assessment area description WL 2 has been cleared of canopy s back into a forested wetland. Dom fringe consists of Brazilian pep wetland flows f	ninant vegetation includ	des bald cypress, re grass, and wax my	ed maple, sweet ba /rtle. A shallow dra	ay, salt ainage	tbush, elderberry, and Veditch present in the sou	irginia chain fem. The uthern portion of the
Significant nearby features			Uniqueness (con landscape.)	ısideriı	ng the relative rarity in r	relation to the regional
Lakeland Linder International Airport			The assessment area is not considered unique, as surrounding areas consists of depressional wetlands.			
Functions			Mitigation for pre	vious	permit/other historic use	
Functions include water quality im habitat, and wil	nprovement, groundwate Idlife foraging habitat.	r recharge, plant			None known	
Anticipated Wildlife Utilization Bas that are representative of the assess be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Snakes, small ma	mmals, song birds, frogs.	ì .	Eastern indigo snake (T, foraging, breeding, resting); various listed wading birds			
Observed Evidence of Wildlife Utili	zation (List species direc	ctly observed, or o	ther signs such as t	racks,	droppings, casings, nest	is, etc.):
	Evidence of wildlife v	was not observed o	during the April 20	20 fiel	ld review.	
Additional relevant factors:						
Hydrology has been impacted by la	ιrge ditch in southern po	ortion of wetland th	nat flows into artific	cal por	nd west of the wetland.	
Assessment conducted by:			Assessment date(s):		
Tia Norman, AECOM			29-Apr-20			

Site/Project Name			Application Number	Assessment Are	ea Name or Number		
Phase II Air Cargo Facility Development at LAL					WL 2		
Impact or Mitigation			Assessment conducted by:	Assessment da	te:		
	Impa	ct	Tia Norman		29-Apr-20		
Scoring Guidance The scoring of each	4	Optimal (10)	Moderate(7) Condition is less than	Minimal (4)	Not Present (0)		
indicator is based on		Condition is optimal and	optimal, but sufficient to	Minimal level of support of	Condition is insufficient		
what would be suitable		fully supports wetland/surface water	maintain most	wetland/surface water	to provide wetland/surface water		
for the type of wetland or surface water		functions	wetland/surface water functions	functions	functions		
.500(6)(a) Location Landscape Suppo		w estw ard outside of the the north, disturbed land	ort property on the w est so e project area. WL 2 is bo I and Kelvin How ard Rd to st, and LAL airfield to the	ounded by disturbed land the east, manufacturing	d and Drane Field Rd to g facilities and an		
		· ·	active airfield operations a	_	•		
w/o pres or		assessment area.	s a operatione				
current	with						
3	0						
.500(6)(b)Water Enviro (n/a for uplands) w/o pres or current		w etland and it appears t feature. There is standir w ithin the forested area	capacity. How ever, a large to have had an adverse eng water present in the did not the wetland. The soils el indicators are not distind feature.	effect on the hydrology a tch feature; how ever, no observed w ithin this fea	s a w hole in the one w as observed ature w ere hydric w ith		
1. Vegetation a 2. Benthic Community v/o pres or current 5	nd/or	elderberry, and Virginia successional canopy ar within this wetland on th	tation present include rec chain fern. However, bed nd shrub species are pred ne fringes which consisted ed of nuisance and exotion	cause of the hydrology is sent. There was nuisanced of Brazilian pepper, pe	sues a number of e and exotic vegetation ppervine, and cogon		
Score = sum of ab		If preservation as miti	igation,	For impact asses	sment areas		
scores/30 (if uplands by 20)	, divide			. 2pas. asooc			
current or w/o pres	with	Preservation adjustme		FL = delta x acres (10	0.1) = 4.8		
0.433	0.000	Adjusted mitigation de	lta =				
		I					
		If mitigation		For mitigation asse	essment areas		
Delta = [with-curre	nt]	Time lag (t-factor) =		DEG. 1.11.11.1			
-0.433		Risk factor =		RFG = delta/(t-factor	X risk) =		

Site/Project Name	Application Number	Assessment Area Name or Number			or Number	
Phase II Air Cargo Facility De	velopment at LAL				WI	L 2
FLUCCs code	Further classificat	,		Impac	et or Mitigation Site?	Assessment Area Size
631: Wetland Scrub		 Palustrine, Fores le-leaved Deciduor Flooded 			Secondary Impact	0.7 acre
Basin/Watershed Name/Number	Affected Waterbody (Class	ss)	Special Classification	on (i.e.C	DFW, AP, other local/state/federal of	lesignation of importance)
Alafia River	Class II	II			N/A	
Geographic relationship to and hyd	Irologic connection with	wetlands, other st	 urface water, uplan	ıds		
	disturbed land and	d Drane Field Rd to	o the r	•		
Assessment area description WL 2 has been cleared of canopy s back into a forested wetland. Dom fringe consists of Brazilian pep wetland flows f	ninant vegetation includ	des bald cypress, re grass, and wax my	ed maple, sweet ba vrtle. A shallow dra	ay, salt ainage	tbush, elderberry, and V ditch present in the sou	irginia chain fern. The athern portion of the
Significant nearby features			Uniqueness (con landscape.)	ısideriı	ng the relative rarity in r	elation to the regional
Lakeland Linder International Airport			The assessment area is not considered unique, as surrounding areas consists of depressional wetlands.			
Functions			Mitigation for pre	vious	permit/other historic use	
Functions include water quality im habitat, and wil	nprovement, groundwate Idlife foraging habitat.	r recharge, plant			None known	
Anticipated Wildlife Utilization Bas that are representative of the assess be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Snakes, small ma	mmals, song birds, frogs.	ì .	Eastern indigo	snake	(T, foraging, breeding, wading birds	resting); various listed
Observed Evidence of Wildlife Utili	zation (List species direc	ctly observed, or o	ther signs such as t	racks,	droppings, casings, nest	s, etc.):
	Evidence of wildlife v	was not observed o	during the April 20	20 fiel	ld review.	
Additional relevant factors:						
Hydrology has been impacted by la	ιrge ditch in southern po	ortion of wetland th	nat flows into artific	cal por	nd west of the wetland.	
Assessment conducted by:			Assessment date(s):		
Tia Norman, AECOM			29-Apr-20			

Site/Project Name			Application Number	Assessment Ar	ea Name or Number		
Phase II Air Cargo Facility Development at LAL			Application Number	Assessment Ai	WL 2		
Impact or Mitigation	argo r aciiit	y Development at LAL	Assessment conducted by:	Assessment da			
Secondary Impact			Tia Norman	Assessment da	29-Apr-20		
	Secondary	ППраст	ila Nollilali		29-Apr-20		
Scoring Guidance		Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)		
The scoring of eac		Condition is optimal and	Condition is less than	Minimal Invalidation and ad-	Condition is insufficient		
indicator is based o what would be suital		fully supports	optimal, but sufficient to maintain most	Minimal level of support of wetland/surface water	to provide		
for the type of wetla		wetland/surface water functions	wetland/surface water	wetland/surface water functions			
or surface water		Turictions	functions		TUTICTIONS		
.500(6)(a) Locatic Landscape Sup w/o pres or current		w estw ard outside of the the north, disturbed land artificial pond to the wes	ort property on the east si e project area. WL 2 is bo I and Kelvin How ard Rd to st, and LAL airfield to the active airfield operations a	ounded by disturbed lan o the east, manufacturin south. Surrounding deve	d and Drane Field Rd to g facilities and an elopment, airport		
4	3						
.500(6)(b)Water Env (n/a for uplan w/o pres or current		w etland and it appears t feature. There is standir w ithin the forested area	capacity. How ever, a larg to have had an adverse eng water present in the did of the wetland. The soils el indicators are not distind feature.	effect on the hydrology a tch feature; how ever, no observed within this fe	as a w hole in the one w as observed ature w ere hydric w ith		
.500(6)(c)Community 1. Vegetation 2. Benthic Comm //o pres or current 6	n and/or	Beneficial w etland vege elderberry, and Virginia successional canopy ar w ithin this w etland on th	etation present include red chain fern. How ever, bed nd shrub species are pres ne fringes w hich consiste ed of nuisance and exotion	cause of the hydrology i sent. There was nuisand d of Brazilian pepper, po	ssues a number of ce and exotic vegetation eppervine, and cogon		
•		•					
Score = sum of		If preservation as mit	igation,	For impact asse	ssment areas		
scores/30 (if uplan by 20)	as, divide	l 	-	,			
current	طفقير	Preservation adjustme	=	FL = delta x acres (0	.7) = 0.05		
or w/o pres	with	Adjusted mitigation de	lta =	<u> </u>			
0.500	0.433]		-			
	<u> </u>	If mitigation					
Delta = [with-cu	rrent]	If mitigation Time lag (t-factor) =		For mitigation ass	essment areas		

Site/Project Name	Application Num	ber	Assessment Area Name or Number			
Phase II Air Cargo Facility De	velopment at LAL				W	L 6
FLUCCs code	Further classifica	ation (optional)		Impa	ct or Mitigation Site?	Assessment Area Size
631: Wetland Scrub		- Palustrine, Fores e-leaved Deciduou Flooded			Direct Impact	11.2 acres
Basin/Watershed Name/Number	Affected Waterbody (Class)	Special Classific	ation	(i.e.OFW, AP, other local/state	e/federal designation of import
Alafia River Class III					N/A	
Geographic relationship to and hyd	Irologic connection with	n wetlands, other	surface water, up	lands		
WL 6 is an isolated system locate development of the air cargo facili			ark Dr to the north			•
Assessment area description						
WL 6 has been cleared of canop succeeding back into a forested	wetland. Dominant veg	=	bald cypress, red		<u>-</u>	* *
Significant nearby features			Uniqueness (considering the relative rarity in relation to the regional landscape.)			
Lakeland Linder		The assessment area is not considered unique, as surrounding areas consists of depressional wetlands.				
Functions			Mitigation for pre	ev ious	permit/other historic us	se
Functions include water quality in plant habitat, and water	improvement, groundw wildlife foraging habitat	_			None known	
Anticipated Wildlife Utilization Base species that are representative of expected to be found)			Anticipated Utilization by Listed Species (List species, their legal classification (E, T, SSC), type of use, and intensity of use of the assessment area)			
Snakes, small mam	nmals, song birds, frog	IS.	Eastern indigo snake (T, foraging, breeding, resting); various listed wading birds			
Observed Evidence of Wildlife Uti	lization (List species di	irectly observed,	or other signs su	ch as	tracks, droppings, casi	ings, nests, etc.):
	Evidence of wildlife w	as not observed	during the April 20	020 fie	ald review.	
Additional relevant factors:						
Hydrology has been impacted by :	surrounding developms	ent.				
Assessment conducted by:			Assessment date	e(s):		
Tia Norman, AECOM			29-Apr-20			

Site/Project Name			Application Number Assessment Area Name		ea Name or Number		
Phase II Air Cargo Facility Development at LAL			Application (Valido)	7.03033ment 7.1	WL 6		
Impact or Mitigation			Assessment conducted by:	Assessment da	-		
Direct Impact			Tia Norman	Assessment da	Assessment date: 29-Apr-20		
	Direct ii	праст	na ryoman		20 Apr 20		
Scoring Guidance		Optimal (10)	Moderate(7)	Minimal (4)	Not Present (0)		
The scoring of each indicator is based on what would be suitable for the type of wetland or surface water		Condition is optimal and fully supports wetland/surface water functions	Condition is less than optimal, but sufficient to maintain most wetland/surface water functions Minimal level of support of wetland/surface water functions		Condition is insufficient to provide wetland/surface water functions		
.500(6)(a) Location and Landscape Support w/o pres or current with		WL 6 is located on Airport property on the east side of Kelvin Howard Rd south of Air Park Dr and is bounded by Phase I development of the air cargo facility to the east, disturbed land and Air Park Dr to the north, Kelvin Howard Rd to the west, and LAL airfield to the south. Surrounding development, airport perimeter fencing, and active airfield operations at LAL limit wildlife movement to and from the assessment area.					
.500(6)(b)Water Environment (n/a for uplands) w/o pres or current with 5		The hydrology and water environment within WL 6 supports the functions and provides benefits to wildlife at a marginal capacity. However, surrounding development and adjacent disturbance appears to have had an adverse effect on the hydrology as a whole in the feature. The soils observed within this feature were hydric with organic bodies and redox concentrations. Water level indicators are not distinct or consistent with the expected hydrologic conditions of the wetland feature.					
.500(6)(c)Community structure 1. Vegetation and/or 2. Benthic Community w/o pres or current with 6 0		Beneficial w etland vegetation present include red maple, bald cypress, sweet bay, saltbush, elderberry, and Virginia chain fern. However, because of the hydrology issues a number of successional canopy and shrub species are present. There was nuisance and exotic vegetation within this wetland which consisted of Peruvian primrose willow.					
Score = sum of scores/30 (if uplan		If preservation as mit	igation,	For impact asses	ssment areas		
by 20) current or w/o pres	with	Preservation adjustme Adjusted mitigation de		FL = delta x acres (1	1.2) = 5.25		
0.467	0.000] ———					
		If mitigation		Farcetination			
Delta = [with-current]		Time lag (t-factor) =		For mitigation ass	езэттент агеаз		
-0.467		Risk factor =		RFG = delta/(t-factor	x risk) =		