

Appendix F

WVA Model Assumptions

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: Albania North - mostly non-hydric soils

Acres: 331.8

AAHUs = 171.84

Condition: Future Without Project

Variable		TY 0		TY 1		TY 2		TY 22		TY 52	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED
V2	Maturity (input age or dbh, not both)	Age 0	0.00	Age 0	0.00	Age 0	0.00	Age 0	0.00	Age 0	
		dbh 0		dbh 0		dbh 0		dbh 0		dbh 0	
V3	Understory / Midstory	Understory % 0		Understory % 0		Understory % 0		Understory % 0		Understory % 0	
		Midstory % 0	UNUSED	Midstory % 0	UNUSED	Midstory % 0	UNUSED	Midstory % 0	UNUSED	Midstory % 0	UNUSED
V4	Hydrology	Flow/Exchange None		Flow/Exchange None		Flow/Exchange None		Flow/Exchange None		Flow/Exchange None	
		Flooding Duration Permanent	0.10	Flooding Duration Permanent	0.10	Flooding Duration Permanent	0.10	Flooding Duration Permanent	0.10	Flooding Duration Permanent	0.10
V5	Forest Size	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	26	0.41	26	0.41	26	0.41	26	0.41	26	0.41
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	0		0		0		0		0	
	Active Ag	73		73		73		73		73	
	Development	1		1		1		1		1	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	2	0.50	2	0.50	2	0.50	2	0.50	2	0.50
	Distance	Class 2		Class 2		Class 2		Class 2		Class 2	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Albania North -
mostly non-

Project: hydric soils
FWOP

Acres: 331.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
		Understory %		Understory %		Understory %		Understory %		Understory %	

V3	Understory / Midstory	Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Albania North -
mostly non-

Project: hydric soils
FWOP

Acres: 331.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
	Disturbance										

V7	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Albania North -
mostly non-
Project: hydric soils

Acres: 331.8

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	22	TY	52
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	5	1.00	5	1.00
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0	0	0.00	1	0.00	20	0.30	50	1.00
		dbh		dbh		dbh		dbh		dbh	
		0		0		0		0		0	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		100		25		35	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0		0	UNUSED	0	UNUSED	60	0.88	30	1.00
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		Low		Low		Low	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.1	Permanent	0.10	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45
V5	Forest Size	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	5	1.00	5	1.00
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		26	0.4061	26	0.41	26	0.41	26	0.41	26	0.41
	Forest / marsh	0		0		0		0		0	
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	73		73		73		73		73	
	Active Ag	1		1		1		1		1	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	2	0.5	2	0.50	2	0.50	2	0.50	2	0.50
	Distance	Class		Class		Class		Class		Class	
		2		2		2		2		2	
		HSI =		HSI =		HSI =	0.04	HSI =	0.58	HSI =	0.81

Albania North -
mostly non-
Project: hydric soils
FWP

Acres: 331.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development	Values %		Values %		Values %		Values %		Values %	
V7	Disturbance Type	Class		Class		Class		Class		Class	
		Class		Class		Class		Class		Class	
	Distance										
		HSI =		HSI =		HSI =		HSI =		HSI =	

Albania North -
mostly non-
Project: hydric soils

Acres: 331.8

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	

V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type										
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Albania North -
mostly non-

Project: hydric soils

Future Without Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	331.8		0.00	
1	331.8		0.00	0.00
2	331.8		0.00	0.00
22	331.8		0.00	0.00
52	331.8		0.00	0.00
Max TY= 52			Total AAHUs = 0.00	
			AAHUs = 0.00	

Future With Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	331.8		0.00	
1	331.8		0.00	0.00
2	331.8	0.04	12.79	6.40
22	331.8	0.58	191.12	2039.13
52	331.8	0.81	268.21	6890.02

Max TY=	52		Total	
			AAHUs =	8935.54
			AAHUs =	171.84

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future Without Project AAHUs	=	0.00
B. Future With Project AAHUs	=	171.84
Net Change (FWP - FWOP)	=	171.84

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Albania North Swamp 100% hydric**

Project Area: **633**

AAHUs = **252.34**

Condition: Future Without Project

Variable		TY	0	TY	1	TY	15	TY	35	TY	52
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0		0		0		0		0	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		0		0		0	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
V2	Stand Maturity	0		0		0		0		0	
		Class		Class		Class		Class		Class	
		1	0.10	1	0.10	1	0.10	1	0.10	1	0.10
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		1E-20		1E-20		1E-20		1E-20		1E-20	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
V3	Water Regime	1E-20		1.00E-20		1E-20		1E-20		1E-20	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0		0		0	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
V4	Salinity	None		None		None		None		None	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10
		Salinity		Salinity		Salinity		Salinity		Salinity	
		0.0	1.00	0.0	1.00	0.0	1.00	0.0	1.00	0.0	1.00
		Class		Class		Class		Class		Class	
V5	Forest Size	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
		Values %		Values %		Values %		Values %		Values %	
		Forest / marsh	0.39	26	0.39	26	0.39	26	0.39	26	0.39
		Abandoned Ag		0		0		0		0	
		Pasture / Hay		0		0		0		0	
		Active Ag		65		65		65		65	
V6	Surrounding Land Use	9		9		9		9		9	
		Disturbance		Class		Class		Class		Class	
		2	0.50	2	0.50	2	0.50	2	0.50	2	0.50
		Class		Class		Class		Class		Class	
		Type		Class		Class		Class		Class	
		Class		Class		Class		Class		Class	

	Distance	2		2		2		2		2	
		HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00

Project: Albania North Swamp 100% hydric
FWOP

Project Area: 633

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		Class		Class		Class		Class		Class	
V5	Forest Size										
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Project: **Albania North Swamp 100% hydric**
FWOP

Project Area: 633

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover Overstory		% Cover Overstory		% Cover Overstory		% Cover Overstory		% Cover Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: Albania North Swamp 100% hydric

Project Area: 633

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	15	TY	35
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0		0		0		75		75	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		0		60		35	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		0		100		100		30		30	
V2	Stand Maturity	Class		Class		Class		Class		Class	
		1	0.1	1	0.10	1	0.10	6	1.00	6	1.00
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		1E-20		0.0000001		0.2		3.5		8.2	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		1E-20		0.0000001		0.1		10.1		41.4	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
V3	Water Regime	0		0		0.3		4.1		9.6	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	2E-23	0	0.00	0	0.00	6	0.01	24	0.17
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		Low		Low		Low		Low	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.1	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		0	1	0.0	1.00	0.0	1.00	0.0	1.00	0.0	1.00
V5	Forest Size	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	5	UNUSED	5	1.00
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		Forest / marsh									
		Abandoned Ag	0.3909	26	0.39	26	0.39	26	0.39	26	0.39
		Pasture / Hay		0		0		0		0	
		Active Ag		0		0		0		0	
		Development		65		65		65		65	
V7	Disturbance Type	9		9		9		9		9	
		Class		Class		Class		Class		Class	
		2	0.5	2	0.50	2	0.50	2	0.50	2	0.50

	Distance	Class 2		Class 2		Class 2		Class 2		Class 2	
		HSI =	0.00	HSI =	0.00	HSI =	0.08	HSI =	0.29	HSI =	0.52

Project: **Albania North Swamp 100% hydric**
FWP

Project Area: 633

Variable		TY	52	TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		85									
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		35									
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
V2	Stand Maturity	30									
		Class		Class		Class		Class		Class	
		6	1.00								
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		11.9									
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
V3	Water Regime	87.3									
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		14									
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		52	0.64								
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
V4	Salinity	Low									
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Semi-Permanent	0.45								
		Salinity		Salinity		Salinity		Salinity		Salinity	
		0.0	1.00								
		Class		Class		Class		Class		Class	
V5	Forest Size	5	1.00								
		Values %		Values %		Values %		Values %		Values %	
		Forest / marsh									
		Abandoned Ag	0.39								
		Pasture / Hay									
		Active Ag									
V6	Surrounding Land Use	Development									
		9									
		Disturbance		Class		Class		Class		Class	
		Type		Class		Class		Class		Class	
		2	0.50								
		Class		Class		Class		Class		Class	
V7	Distance	2									

HSI =	0.67	HSI =		HSI =		HSI =		HSI =	
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Project: Albania North Swamp 100% hydric
FWP

Project Area: 633

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Project: Albania North Swamp 100% hydric

Future Without Project		x HSI	Total HUs	Cumulative HUs
TY	Acres			
0	633	0.00	0.00	
1	633	0.00	0.00	0.00
15	633	0.00	0.00	0.05
35	633	0.00	0.00	0.07
52	633	0.00	0.00	0.06



Max TY=	52		Total	
			CHUs =	0.17
			AAHUs =	0.00

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	633	0.00	0.00	
1	633	0.00	2.43	1.21
2	633	0.08	49.86	26.14
15	633	0.29	184.99	1526.52
35	633	0.52	329.23	5142.20
52	633	0.67	426.74	6425.71
Max TY=	52		Total	
			CHUs =	13121.79
			AAHUs =	252.34

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	252.34
B. Future Without Project AAHUs =	0.00
Net Change (FWP - FWOP) =	252.34

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: Albania - South BLH: 100% Non-hydric

Acres: 111

AAHUs = 55.33

Condition: Future Without Project

Variable		TY 0		TY 1		TY 20		TY 52		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class	
V2	Maturity (input age or dbh, not both)	Age 0	0.00	Age 0	0.00	Age 0	0.00	Age 0	0.00	Age	
		dbh 0		dbh 0		dbh 0		dbh 0		dbh	
V3	Understory / Midstory	Understory % 0		Understory % 0		Understory % 0		Understory % 0		Understory %	
		Midstory % 0	UNUSED	Midstory % 0	UNUSED	Midstory % 0	UNUSED	Midstory % 0	UNUSED	Midstory %	
V4	Hydrology	Flow/Exchange None		Flow/Exchange None		Flow/Exchange None		Flow/Exchange None		Flow/Exchange None	
		Flooding Duration Permanent	0.10	Flooding Duration Permanent	0.10	Flooding Duration Permanent	0.10	Flooding Duration Permanent	0.10	Flooding Duration Permanent	
V5	Forest Size	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	4	0.22	4	0.22	4	0.22	4	0.22		
	Abandoned Ag	0		0		0		0			
	Pasture / Hay	0		0		0		0			
	Active Ag	90		90		90		90			
	Development	6		6		6		6			
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	3	0.65	3	0.65	3	0.65	3	0.65	Class	
	Distance	Class 2		Class 2		Class 2		Class 2		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Albania - South
BLH: 100% Non-

Project: hydric
FWOP

Acres: 111

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
		Understory %		Understory %		Understory %		Understory %		Understory %	

V3	Understory / Midstory	Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Albania - South

BLH: 100% Non-

Project: hydric
FWOP

Acres: 111

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
	Disturbance										

V7	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Albania - South
BLH: 100% Non-
Project: hydric

Acres: 111

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	22	TY	52
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	5	1.00	5	1.00
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0	0	0.00	1	0.00	20	0.30	50	1.00
		dbh		dbh		dbh		dbh		dbh	
		0		0		0		0		0	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		100		25		35	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0		0	UNUSED	0	UNUSED	60	0.88	30	1.00
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		Low		Low		Low	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.1	Permanent	0.10	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45
V5	Forest Size	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	4	0.80	4	0.80
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		4	0.2206	4	0.22	4	0.22	4	0.22	4	0.22
	Forest / marsh	0		0		0		0		0	
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	90		90		90		90		90	
	Active Ag	6		6		6		6		6	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	3	0.65	3	0.65	3	0.65	3	0.65	3	0.65
	Distance	Class		Class		Class		Class		Class	
		2		2		2		2		2	
		HSI =		HSI =		HSI =	0.04	HSI =	0.55	HSI =	0.78

Albania - South
BLH: 100% Non-
Project: hydric
FWP

Acres: 111

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development	Values %		Values %		Values %		Values %		Values %	
V7	Disturbance Type	Class		Class		Class		Class		Class	
		Class		Class		Class		Class		Class	
	Distance										
		HSI =		HSI =		HSI =		HSI =		HSI =	

Albania - South

BLH: 100% Non-

Project: hydric

Acres: 111

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	

V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type										
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Albania - South

BLH: 100% Non-

Project: hydric

Future Without Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	111		0.00	
1	111		0.00	0.00
20	111		0.00	0.00
52	111		0.00	0.00
Max TY= 52			Total AAHUs = 0.00	
			AAHUs = 0.00	

Future With Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	111		0.00	
1	111		0.00	0.00
2	111	0.04	4.10	2.05
22	111	0.55	61.55	656.46
52	111	0.78	86.38	2218.88

Max TY=	52		Total	
			AAHUs =	2877.39
			AAHUs =	55.33

NET CHANGE IN AAHUs DUE TO PROJECT		
A. Future Without Project AAHUs	=	0.00
B. Future With Project AAHUs	=	55.33
Net Change (FWP - FWOP)	=	55.33

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Albania South Swamp 100% hydric**

Project Area: **81**

AAHUs = **32.32**

Condition: Future Without Project

Variable		TY	0	TY	1	TY	15	TY	35	TY	50
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0		0		0		0		0	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		0		0		0	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
V2	Stand Maturity	0		0		0		0		0	
		Class		Class		Class		Class		Class	
		1	0.10	1	0.10	1	0.10	1	0.10	1	0.10
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		1E-20		1E-20		1E-20		1E-20		1E-20	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
V3	Water Regime	1E-20		1.00E-20		1E-20		1E-20		1E-20	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0		0		0	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
V4	Salinity	None		None		None		None		None	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10
		Salinity		Salinity		Salinity		Salinity		Salinity	
		0.0	1.00	0.0	1.00	0.0	1.00	0.0	1.00	0.0	1.00
		Class		Class		Class		Class		Class	
V5	Forest Size	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
		Values %		Values %		Values %		Values %		Values %	
		Forest / marsh	0.39	26	0.39	26	0.39	26	0.39	26	0.39
		Abandoned Ag		0		0		0		0	
		Pasture / Hay		0		0		0		0	
		Active Ag		65		65		65		65	
V6	Surrounding Land Use	Development		9		9		9		9	
		Disturbance		Class		Class		Class		Class	
		Type	0.50	2	0.50	2	0.50	2	0.50	2	0.50
		Distance		Class		Class		Class		Class	
		2		2		2		2		2	
		2		2		2		2		2	

HSI	=	0.00	HSI	=	0.00	HSI	=	0.00	HSI	=	0.00	HSI	=	0.00
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Project: Albania South Swamp 100% hydric
FWOP

Project Area: 81

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI	=	HSI	=	HSI	=	HSI	=	HSI	=

Project: Albania South Swamp 100% hydric

Project Area: 81

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover Overstory		% Cover Overstory		% Cover Overstory		% Cover Overstory		% Cover Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance										
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL
Swamp 2.0

Project: Albania South Swamp 100% hydric

Project Area:

81

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	15	TY	35	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover		
		Overstory		Overstory		Overstory		Overstory		Overstory		
		0		0		0		75		75		
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		
		0		0		0		60		35		
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous		
		0		0		100		30		30		
		Class		Class		Class		Class		Class		
		1	0.1	1	0.10	1	0.10	6	1.00	6	1.00	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		
		1E-20		1E-20		0.2		3.5		8.2		
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		
		1E-20		1E-20		0.1		10.1		41.4		
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		
		0		0		0.3		4.1		9.6		
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		
		0	2E-23	0	0.00	0	0.00	6	0.01	24	0.17	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		
		None		Low		Low		Low		Low		
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		
		Permanent	0.1	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity		
		0	1	0.0	1.00	0.0	1.00	0.0	1.00	0.0	1.00	
V5	Forest Size	Class		Class		Class		Class		Class		
		1		1	UNUSED	1	UNUSED	4	UNUSED	5	1.00	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %		
		Forest / marsh	26	0.3909	26	0.39	26	0.39	26	0.39	26	0.39
		Abandoned Ag	0		0		0		0		0	
		Pasture / Hay	0		0		0		0		0	
V7	Disturbance	Active Ag	65		65		65		65		65	
		Development	9		9		9		9		9	
		Class		Class		Class		Class		Class		
		2	0.5	2	0.50	2	0.50	2	0.50	2	0.50	
		Class		Class		Class		Class		Class		
		2		2		2		2		2		
		HSI =	0.00	HSI =	0.00	HSI =	0.08	HSI =	0.29	HSI =	0.52	

Project: Albania South Swamp 100% hydric

Project Area:

81

FWP

Variable		TY	52	TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		85									
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		35									
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		30									
		Class		Class		Class		Class		Class	
6	1.00										
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		11.9									
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		87.3									
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		14									
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		52	0.64								
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Low									
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Semi-Permanent	0.45								
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		0.0	1.00								
V5	Forest Size	Class		Class		Class		Class		Class	
		5	1.00								
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	26	0.39								
	Abandoned Ag	0									
	Pasture / Hay	0									
	Active Ag	65									
V7	Development	9									
	Disturbance	Class		Class		Class		Class		Class	
	Type	2	0.50								
		Class		Class		Class		Class		Class	
	Distance	2									
		HSI =	0.67	HSI =		HSI =		HSI =		HSI =	

Project: Albania South Swamp 100% hydric
FWP

Project Area: 81

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI

V1	Stand Structure	% Cover Overstory		% Cover Overstory		% Cover Overstory		% Cover Overstory		% Cover Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
V2	Stand Maturity	Class		Class		Class		Class		Class	
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Project: Albania South Swamp 100% hydric

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	81	0.00	0.00	
1	81	0.00	0.00	0.00
15	81	0.00	0.00	0.01
35	81	0.00	0.00	0.01
50	81	0.00	0.00	0.01

Max TY=	50		Total	
			CHUs =	0.02
			AAHUs =	0.00

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	81	0.00	0.00	
1	81	0.00	0.00	0.00
2	81	0.08	6.39	3.19
15	81	0.29	23.70	195.58
35	81	0.52	42.18	658.82
52	81	0.67	54.67	823.26
Max TY=	52		Total	
			CHUs =	1680.85
			AAHUs =	32.32

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	32.32
B. Future Without Project AAHUs =	0.00
Net Change (FWP - FWOP) =	32.32

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: Amite River Sites

Acres: 368.6

AAHUs = 235.98

Condition: Future Without Project

Variable		TY	0	TY	1	TY	20	TY	50	TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED		
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0.00	0	0.00	0	0.00	0	0.00		
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		0		0		0	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED		
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Moderate		Moderate		Moderate		Moderate		Moderate	
V5	Forest Size	Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Seasonal	0.75	Seasonal	0.75	Seasonal	0.75	Seasonal	0.75		
		Class		Class		Class		Class		Class	
V6	Surrounding Land Use	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED		
		Values %		Values %		Values %		Values %		Values %	
		49	0.63	49	0.63	49	0.63	49	0.63		
		8		8		8		8			
		5		5		5		5			
		35		35		35		35			
V7	Disturbance	3		3		3		3			
		Type		Type		Type		Type		Type	
		Class	1.00	Class	1.00	Class	1.00	Class	1.00		
		Distance		Distance		Distance		Distance			
		HSI =		HSI =		HSI =		HSI =		HSI =	

Amite River

Project: Sites

Acres: 368.6

FWOP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory /	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	

	Midstory										
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance										
		HSI =		HSI =		HSI =		HSI =		HSI =	

Amite River
Project: Sites
FWOP

Acres: 368.6

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	

HSI =		HSI =		HSI =		HSI =		HSI =	
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WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Amite River
Project: Sites

Acres: 368.6

Condition: Future With Project

Variable		TY	0	TY	1	TY	20	TY	50	TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	5	1.00	5	1.00		
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0	1	0.00	20	0.30	50	1.00		
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		100		25		35			
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	0		0	UNUSED	60	0.88	30	1.00		
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Moderate		High		High		High			
V5	Forest Size	Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Seasonal	0.75	Temporary	1.00	Temporary	1.00	Temporary	1.00		
		Class		Class		Class		Class		Class	
V6	Surrounding Land Use	1		1	UNUSED	5	1.00	5	1.00		
		Values %		Values %		Values %		Values %		Values %	
		49	0.6283	49	0.63	49	0.63	49	0.63		
		8		8		8		8			
		Pasture / Hay		5		5		5			
		Active Ag Development		35		35		35			
V7	Disturbance	3		3		3		3			
		Class		Class		Class		Class		Class	
		2	1	2	1.00	2	1.00	2	1.00		
		Class		Class		Class		Class		Class	
	Distance	3		3		3		3			
		HSI =		HSI =	0.05	HSI =	0.69	HSI =	0.97	HSI =	

Amite River
Project: Sites
FWP

Acres: 368.6

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input	Age		Age		Age		Age		Age	

	age or dbh, not both)	dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh							100	1.00	100	1.00
	Abandoned Ag							0		0	
	Pasture / Hay							0		0	
	Active Ag Development							0		0	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type							3	1.00	3	1.00
	Distance	Class		Class		Class		Class		Class	
								3		3	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Amite River

Project: Sites

Acres: 368.6

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	

Type		Class		Class		Class		Class		Class	
Distance											
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Amite River

Project: Sites

Future Without Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	368.6		0.00	
1	368.6		0.00	0.00
20	368.6		0.00	0.00
50	368.6		0.00	0.00
Max TY= 50			Total AAHUs =	0.00
			AAHUs =	0.00

Future With Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	368.6		0.00	
1	368.6	0.05	19.98	9.99
20	368.6	0.69	254.64	2608.92
50	368.6	0.97	357.35	9179.98
Max TY= 50			Total AAHUs =	11798.89

AAHUs = 235.98

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future Without Project AAHUs =	0.00
B. Future With Project AAHUs =	235.98
Net Change (FWP - FWOP) =	235.98

WETLAND VALUE ASSESSMENT COMMUNITY MODEL
Bottomland Hardwoods 1.2

Project: ASCENSION (model version: 2018-12-06 CW BLH WVA v1.2) Acres: 55.8 AAHUs = 28.46

Condition: Future Without Project

Variable		TY	0	TY	1	TY	10	TY	20	TY	50
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		0		0		0	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None		None	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10
V5	Forest Size	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development	22	0.35	22	0.35	22	0.35	22	0.35	22	0.35
		0		0		0		0		0	
		30		30		30		30		30	
		2		2		2		2		2	
46		46		46		46		46			
V7	Disturbance Type	Class		Class		Class		Class		Class	
		3	0.41	3	0.41	3	0.41	3	0.41	3	0.41
	Distance	Class		Class		Class		Class		Class	
		1		1		1		1		1	
		HSI =		HSI =		HSI =		HSI =		HSI =	

ASCENSION
(model version: 2018-12-06 CW
Project: BLH WVA v1.2) Acres: 55.8
FWOP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		Age		Age		Age		Age		Age	

V2	Maturity (input age or dbh, not both)	dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

ASCENSION
(model version:
2018-12-06 CW

Project: BLH WVA v1.2)
FWOP

Acres: 55.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
	Surrounding	Values %		Values %		Values %		Values %		Values %	

V6	Land Use										
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance										
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

ASCENSION
(model version:
2018-12-06 CW
Project: BLH WVA v1.2)

Acres: 55.8

Condition: Future With Project

Variable		TY	0	TY	1	TY	20	TY	50	TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	5	1.00	5	1.00		
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0	1	0.00	20	0.30	50	1.00		
		dbh		dbh		dbh		dbh		dbh	
						0		0			
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		100		25		35			
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0		0	UNUSED	60	0.88	30	1.00		
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None			
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.1	Temporary	0.50	Temporary	0.50	Temporary	0.50		
V5	Forest Size	Class		Class		Class		Class		Class	
		1		1	UNUSED	3	0.60	3	0.60		
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	22	0.3486	22	0.35	22	0.35	22	0.35		
	Abandoned Ag	0		0		0		0			
	Pasture / Hay	30		30		30		30			
	Active Ag	2		2		2		2			
	Development	46		46		46		46			
V7	Disturbance	Class		Class		Class		Class		Class	

	Type	3	0.41	3	0.41	3	0.41	3	0.41		
	Distance	Class		Class		Class		Class		Class	
		1		1		1		1			
		HSI =		HSI =	0.04	HSI =	0.55	HSI =	0.77	HSI =	

ASCENSION
(model version:
2018-12-06 CW
Project: BLH WVA v1.2)
FWP

Acres: 55.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh							100	1.00	100	1.00
	Abandoned Ag							0		0	
	Pasture / Hay							0		0	
	Active Ag							0		0	
	Development							0		0	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type							3	1.00	3	1.00
	Distance	Class		Class		Class		Class		Class	
								3		3	
		HSI =		HSI =		HSI =		HSI =		HSI =	

ASCENSION
(model version:
2018-12-06 CW
Project: BLH WVA v1.2)
FWP

Acres: 55.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
		Class		Class		Class		Class		Class	

V1	Tree Species Composition										
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
V7	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type										
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

ASCENSION

(model version:

2018-12-06 CW

Project: BLH WVA v1.2)

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	55.8		0.00	
1	55.8		0.00	0.00
10	55.8		0.00	0.00
20	55.8		0.00	0.00
50	55.8		0.00	0.00

Max TY=	50		Total	
			AAHUs =	0.00
			AAHUs =	0.00

Future With Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	55.8		0.00	
1	55.8	0.04	2.11	1.06
20	55.8	0.55	30.78	312.45
50	55.8	0.77	43.19	1109.49
Max TY=	50		Total	
			AAHUs =	1423.00
			AAHUs =	28.46

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future Without Project AAHUs =	0.00
B. Future With Project AAHUs =	28.46
Net Change (FWP - FWOP) =	28.46

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: Cote Blanche BLH mitigation sites

Acres: 176

AAHUs = 101.90

Condition: Future Without Project

Variable		TY	0	TY	1	TY	20	TY	50	TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED		
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0.00	0	0.00	0	0.00	0	0.00		
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		0		0		0	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED		
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None		None	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Temporary	0.50	Temporary	0.50	Temporary	0.50	Temporary	0.50		
V5	Forest Size	Class		Class		Class		Class		Class	
		3	UNUSED	3	UNUSED	2	UNUSED	1	UNUSED		
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		33	0.44	33	0.44	33	0.44	33	0.44		
	Forest / marsh	0		0		0		0			
	Abandoned Ag	1		1		1		1			
	Pasture / Hay	53		53		53		53			
	Active Ag	13		13		13		13			
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	3	0.65	3	0.65	3	0.65	3	0.65		
	Distance	Class		Class		Class		Class		Class	
		2		2		2		2			
		HSI =		HSI =		HSI =		HSI =		HSI =	

Cote Blanche
BLH mitigation

Project: sites
FWOP

Acres: 176

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
		Understory %		Understory %		Understory %		Understory %		Understory %	

V3	Understory / Midstory	Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance Type Distance	Class		Class		Class		Class		Class	
		Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Cote Blanche
BLH mitigation

Project: sites
FWOP

Acres: 176

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
	Disturbance										

V7	Type	Class		Class		Class		Class		Class	
		Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Cote Blanche
BLH mitigation
Project: sites

Acres: 176

Condition: Future With Project

Variable		TY	0	TY	1	TY	20	TY	50	TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	5	1.00	5	1.00		
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0	1	0.00	20	0.30	50	1.00		
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		60		40			
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0		0	UNUSED	40	1.00	30	1.00		
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		Low		Low			
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Temporary	0.5	Seasonal	0.40	Seasonal	0.65	Seasonal	0.65		
		Class		Class		Class		Class		Class	
		3		3	UNUSED	4	0.80	4	0.80		
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		33	0.4413	33	0.44	50	0.58	50	0.58		
		0		0		0		0			
		1		1		1		1			
		53		53		36		36			
V7	Disturbance										
		Class		Class		Class		Class		Class	
		3	0.65	3	0.65	3	0.65	3	0.65		
		Class		Class		Class		Class		Class	
	Distance	2		2		2		2		2	
		HSI =		HSI =		HSI =		HSI =		HSI =	
		0		0.04		0.63		0.87			

Cote Blanche
BLH mitigation
Project: sites
FWP

Acres: 176

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh							100	1.00	100	1.00
	Abandoned Ag							0		0	
	Pasture / Hay							0		0	
	Active Ag Development							0		0	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type							3	1.00	3	1.00
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Cote Blanche
BLH mitigation

Project: sites

Acres: 176

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	

V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type										
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Cote Blanche

BLH mitigation

Project: sites

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	176		0.00	
1	176		0.00	0.00
20	176		0.00	0.00
50	176		0.00	0.00
Max TY= 50			Total AAHUs = 0.00	
			AAHUs = 0.00	

Future With Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	176		0.00	
1	176	0.04	6.88	3.44
20	176	0.63	111.25	1122.21
50	176	0.87	153.37	3969.21

Max TY=	50		Total AAHUs =	5094.86
			AAHUs =	101.90

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future Without Project AAHUs =	0.00
B. Future With Project AAHUs =	101.90
Net Change (FWP - FWOP) =	101.90

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Cote Blanche swamp mitigation**

Project Area: **270**

AAHUs = **110.16**

Condition: Future Without Project

Variable		TY	0	TY	1	TY	2	TY	3	TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0		0		0		0
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		0		0		0		0		0
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	50		0		0		0		0
		Class		Class		Class		Class		Class
		1	0.10	1	0.10	1	0.10	1	0.10	1
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0		0		0		0		0
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	0.1		0.1		0.1		0.1		0.1
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
			0.00		0.00		0.00		0.00	
V4	Salinity	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
		None		None		None		None		None
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
V5	Forest Size	Temporary	0.40	Temporary	0.40	Temporary	0.40	Temporary	0.40	Temporary
		Class		Class		Class		Class		Class
		3	UNUSED	3	UNUSED	3	UNUSED	3	UNUSED	3
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %
		Forest / marsh	0.55	46	0.55	46	0.55	46	0.55	46
		Abandoned Ag		0		0		0		0
		Pasture / Hay		0		0		0		0
		Active Ag		42		42		42		42
V7	Disturbance	Development		12		12		12		12
		Class		Class		Class		Class		Class

Type	3	0.65	3	0.65	3	0.65	3	0.65	3
Distance	Class		Class		Class		Class		Class
	2		2		2		2		2
	HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =

Project: Cote Blanche swamp mitigation
FWOP

Project Area: 270

Variable		TY	35	TY	50	TY		TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0						
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		0		0						
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	0		0						
		Class		Class		Class		Class		Class
		1	0.10	1	0.10					
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0		0						
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	0.1		0.1						
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
			0.00		0.00					
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V4	Salinity	None		None						
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Temporary	0.40	Seasonal	0.50					
		Salinity		Salinity		Salinity		Salinity		Salinity
		0.5	1.00	0.5	1.00					
		Class		Class		Class		Class		Class
V5	Forest Size	3	UNUSED	3	UNUSED					
		Values %		Values %		Values %		Values %		Values %
		Forest / marsh	46	46	0.55					
		Abandoned Ag	0	0						
		Pasture / Hay	0	0						
V6	Surrounding Land Use	Active Ag	42	42						
		Development	12	12						
V7	Disturbance									
		Class		Class		Class		Class		Class

Type	3	0.65	3	0.65					
Distance	Class		Class		Class		Class		Class
	2		2						
	HSI =	0.00	HSI =	0.00	HSI =		HSI =		HSI =

Project: Cote Blanche swamp mitigation
FWOP

Project Area: 270

Variable		TY		TY		TY		TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
V2	Stand Maturity	Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
		Class		Class		Class		Class		Class
V3	Water Regime	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
V4	Salinity									
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V5	Forest Size	Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
V6	Surrounding Land Use	Salinity		Salinity		Salinity		Salinity		Salinity
		Class		Class		Class		Class		Class
		Values %		Values %		Values %		Values %		Values %
V7	Disturbance									
		Forest / marsh		Forest / marsh		Forest / marsh		Forest / marsh		Forest / marsh
		Abandoned Ag		Abandoned Ag		Abandoned Ag		Abandoned Ag		Abandoned Ag
		Pasture / Hay		Pasture / Hay		Pasture / Hay		Pasture / Hay		Pasture / Hay
		Active Ag		Active Ag		Active Ag		Active Ag		Active Ag
V7	Disturbance	Development		Development		Development		Development		Development
V7	Disturbance	Class		Class		Class		Class		Class

Type									
Distance	Class		Class		Class		Class		Class
	HSI =		HSI =		HSI =		HSI =		HSI =

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: Cote Blanche swamp mitigation

Project Area: 270

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	3	TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0		0		0		55
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		0		0		15		20		40
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	50		50		100		100		40
		Class		Class		Class		Class		Class
		1	0.1	1	0.10	1	0.10	1	0.10	6
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0		0.2		0.4		0.7		3.5
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	0.1		0.1		0.3		0.6		14
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
			0		0.00		0.00		0.00	
V4	Salinity	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
		None		None		None		None		None
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Temporary	0.4	Temporary	0.40	Temporary	0.40	Temporary	0.40	Temporary
		Salinity		Salinity		Salinity		Salinity		Salinity
		0.5	1	0.5	1.00	0.5	1.00	0.5	1.00	0.5
V5	Forest Size	Class		Class		Class		Class		Class
		3		3	UNUSED	3	UNUSED	3	UNUSED	3
		Values %		Values %		Values %		Values %		Values %
		Forest / marsh		Forest / marsh		Forest / marsh		Forest / marsh		Forest / marsh
		46	0.5452	46	0.55	51	0.59	51	0.59	51

	Abandoned Ag Pasture / Hay Active Ag Development	0 0 42 12		0 0 42 12		0 0 37 12		0 0 37 12		0 0 37 12
V7	Disturbance	Class		Class		Class		Class		Class
	Type	3	0.65	3	0.65	3	1.00	3	1.00	3
	Distance	Class		Class		Class		Class		Class
		2		2		3		3		3
		HSI =	0.00	HSI =	0.08	HSI =	0.10	HSI =	0.11	HSI =

Project: Cote Blanche swamp mitigation
FWP

Project Area: 270

Variable		TY	35	TY	50	TY		TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		75		95						
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		35		35						
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	40		40						
		Class		Class		Class		Class		Class
		6	1.00	6	1.00					
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		8.2		11.8						
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	58.6		123						
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
			0.09		0.54					
V4	Salinity	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
		Low		Low						
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
V5	Forest Size	Seasonal	0.70	Seasonal	0.70					
		Salinity		Salinity		Salinity		Salinity		Salinity
		0.5	1.00	0.5	1.00					
V6	Surrounding Land Use	Class		Class		Class		Class		Class
		3	0.60	3	0.60	3	UNUSED	3	UNUSED	
		Forest / marsh								
		Values %		Values %		Values %		Values %		Values %
		51	0.59	51	0.59					

	Abandoned Ag	0		0					
	Pasture / Hay	0		0					
	Active Ag	37		37					
	Development	12		12					
V7	Disturbance	Class		Class		Class		Class	
	Type	3	1.00	3	1.00				
		Class		Class		Class		Class	
	Distance	3		3					
		HSI =	0.53	HSI =	0.76	HSI =		HSI =	

Project: Cote Blanche swamp mitigation
FWP

Project Area: 270

Variable		TY		TY		TY		TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
		Class		Class		Class		Class		Class
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area

		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity
V5	Forest Size	Class		Class		Class		Class		Class
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %
	Forest / marsh									
	Abandoned Ag									
	Pasture / Hay									
	Active Ag									
	Development									
V7	Disturbance	Class		Class		Class		Class		Class
	Type									
	Distance	Class		Class		Class		Class		Class
		HSI =		HSI =		HSI =		HSI =		HSI =

AAHU CALCULATION

Project: Cote Blanche swamp mitigation

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	270	0.00	0.00	
1	270	0.00	0.00	0.00
2	270	0.00	0.00	0.00
3	270	0.00	0.00	0.00
15	270	0.00	0.00	0.00
35	270	0.00	0.00	0.00
50	270	0.00	0.00	0.00

Max TY=	50		Total	
			CHUs =	0.00
			AAHUs =	0.00

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	270	0.00	0.00	
1	270	0.08	21.70	10.85
2	270	0.10	26.14	23.92
3	270	0.11	29.37	27.76
15	270	0.28	76.42	634.77
35	270	0.53	143.77	2201.92
50	270	0.76	204.08	2608.89
Max TY=	50		Total	
			CHUs =	5508.11
			AAHUs =	110.16

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	110.16
B. Future Without Project AAHUs =	0.00
Net Change (FWP - FWOP) =	110.16

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: Felician (model version: 2018-12-06 CW BLH WVA v1.2)

Acres: 267

AAHUs = 155.63

Condition: Future Without Proctect

Variable		TY 0		TY 1		TY 2		TY 22		TY 52	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED
V2	Maturity (input age or dbh, not both)	Age 0	0.00	Age 0	0.00	Age 0	0.00	Age 0	0.00	Age 0	0.00
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory % 0		Understory % 0		Understory % 0		Understory % 0		Understory % 0	
		Midstory % 0	UNUSED	Midstory % 0	UNUSED	Midstory % 0	UNUSED	Midstory % 0	UNUSED	Midstory % 0	UNUSED
V4	Hydrology	Flow/Exchange None		Flow/Exchange None		Flow/Exchange None		Flow/Exchange None		Flow/Exchange None	
		Flooding Duration Permanent	0.10	Flooding Duration Permanent	0.10	Flooding Duration Permanent	0.10	Flooding Duration Permanent	0.10	Flooding Duration Permanent	0.00
V5	Forest Size	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	66	0.77	66	0.77	66	0.77	66	0.77	66	0.77
	Abandoned Ag	1		1		1		1		1	
	Pasture / Hay	25		25		25		25		25	
	Active Ag	3		3		3		3		3	
	Development	5		5		5		5		5	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	4	1.00	4	1.00	4	1.00	4	1.00	4	1.00
	Distance	Class 1		Class 1		Class 1		Class 1		Class 1	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Felician (model version: 2018-12-06 CW BLH

Project: WVA v1.2)

Acres: 267

FWOP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	

	both)										
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
HSI =				HSI =		HSI =		HSI =		HSI =	

Feliciano (model
version: 2018-
12-06 CW BLH

Project: WVA v1.2)
FWOP

Acres: 267

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay										

	Active Ag Development									
V7	Disturbance	Class		Class		Class		Class		Class
	Type	Class		Class		Class		Class		Class
	Distance	Class		Class		Class		Class		Class
		HSI =		HSI =		HSI =		HSI =		HSI =

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Feliciano (model
version: 2018-
12-06 CW BLH

Project: WVA v1.2)

Acres: 267

Condition: Future With Proiect

Variable		TY 0		TY 1		TY 2		TY 22		TY 52	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class 1		Class 1	UNUSED	Class 1	UNUSED	Class 5	1.00	Class 5	1.00
V2	Maturity (input age or dbh, not both)	Age 0 dbh	0	Age 0 dbh	0.00	Age 1 dbh	0.00	Age 21 dbh	0.33	Age 51 dbh	1.00
V3	Understory / Midstory	Understory % 0 Midstory % 0		Understory % 0 Midstory % 0	UNUSED	Understory % 100 Midstory % 0	UNUSED	Understory % 25 Midstory % 60	0.88	Understory % 35 Midstory % 30	1.00
V4	Hydrology	Flow/Exchange None Flooding Duration Permanent	0.1	Flow/Exchange None Flooding Duration Permanent	0.10	Flow/Exchange None Flooding Duration Temporary	0.50	Flow/Exchange None Flooding Duration Temporary	0.50	Flow/Exchange None Flooding Duration Temporary	0.50
V5	Forest Size	Class 1		Class 1	UNUSED	Class 1	UNUSED	Class 5	1.00	Class 5	1.00
V6	Surrounding Land Use	Values % 66 1 25 3 5	0.7725	Values % 66 1 25 3 5	0.77	Values % 66 1 25 3 5	0.77	Values % 66 1 25 3 5	0.77	Values % 66 1 25 3 5	0.77
V7	Disturbance	Class 4 Class 1	1	Class 4 Class 1	1.00	Class 4 Class 1	1.00	Class 4 Class 1	1.00	Class 4 Class 1	1.00
		HSI =		HSI =		HSI =	0.05	HSI =	0.66	HSI =	0.90

Feliciano (model
version: 2018-
12-06 CW BLH

Project: WVA v1.2)
FWP

Acres: 267

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh							100	1.00	100	1.00
	Abandoned Ag							0		0	
	Pasture / Hay							0		0	
	Active Ag							0		0	
	Development							0		0	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type							3	1.00	3	1.00
	Distance	Class		Class		Class		Class		Class	
								3		3	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Feliciano (model
version: 2018-
12-06 CW BLH

Project: WVA v1.2)
FWP

Acres: 267

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory /	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	

V4	Midstory Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Feliciana (model
version: 2018-
12-06 CW BLH

Project: WVA v1.2)

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	267		0.00	
1	267		0.00	0.00
2	267		0.00	0.00
22	267		0.00	0.00
52	267		0.00	0.00
Max TY=	52		Total	
			AAHUs =	0.00
			AAHUs =	0.00

Future With Project

Total Cummulative

TY	Acres	x HSI	HUs	HUs
0	267		0.00	
1	267		0.00	0.00
2	267	0.05	12.49	6.24
22	267	0.66	174.89	1873.81
52	267	0.90	239.28	6212.54
Max TY=	52		Total AAHUs =	8092.60
			AAHUs =	155.63

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: GBRPC (model version: 2018-12-06 CW BLH WVA v1.2)

Acres: 134.9

AAHUs = 54.08

Condition: Future Without Project

Variable		TY	0	TY	1	TY	2	TY	22	TY	52
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		0		0		0	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None		None	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10
		Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development	15	0.30	15	0.30	15	0.30	15	0.30	15	0.30
		1		1		1		1		1	
		21		21		21		21		21	
		29		29		29		29		29	
		34		34		34		34		34	
V7	Disturbance Type	Class		Class		Class		Class		Class	
		1	0.01	1	0.01	1	0.01	1	0.01	1	0.01
	Distance	Class		Class		Class		Class		Class	
		1		1		1		1		1	
		HSI =		HSI =		HSI =		HSI =		HSI =	

GBRPC (model version: 2018-12-06 CW BLH

Project: WVA v1.2)

Acres: 134.9

FWOP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	

	both)										
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance										
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
HSI =				HSI =		HSI =		HSI =		HSI =	

GBRPC (model
version: 2018-
12-06 CW BLH

Project: WVA v1.2)
FWOP

Acres: 134.9

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay										

	Active Ag Development									
V7	Disturbance	Class		Class		Class		Class		Class
	Type	Class		Class		Class		Class		Class
	Distance	Class		Class		Class		Class		Class
		HSI =		HSI =		HSI =		HSI =		HSI =

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

GBRPC (model
version: 2018-
12-06 CW BLH

Project: WVA v1.2)

Acres: 134.9

Condition: Future With Project

Variable		TY 0		TY 1		TY 2		TY 22		TY 52	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class 1		Class 1	UNUSED	Class 1	UNUSED	Class 5	1.00	Class 5	1.00
V2	Maturity (input age or dbh, not both)	Age 0 dbh	0	Age 0 dbh	0.00	Age 1 dbh	0.00	Age 21 dbh	0.33	Age 51 dbh	1.00
V3	Understory / Midstory	Understory % 0 Midstory % 0		Understory % 0 Midstory % 0	UNUSED	Understory % 100 Midstory % 0	UNUSED	Understory % 25 Midstory % 60	0.88	Understory % 35 Midstory % 30	1.00
V4	Hydrology	Flow/Exchange None Flooding Duration Permanent	0.1	Flow/Exchange None Flooding Duration Permanent	0.10	Flow/Exchange None Flooding Duration Temporary	0.50	Flow/Exchange None Flooding Duration Temporary	0.50	Flow/Exchange None Flooding Duration Temporary	0.50
V5	Forest Size	Class 1		Class 1	UNUSED	Class 1	UNUSED	Class 5	1.00	Class 5	1.00
V6	Surrounding Land Use	Values % 15 1 21 29 34	0.3014	Values % 15 1 21 29 34	0.30	Values % 15 1 21 29 34	0.30	Values % 15 1 21 29 34	0.30	Values % 15 1 21 29 34	0.30
V7	Disturbance	Class 1	0.01	Class 1	0.01	Class 1	0.01	Class 1	0.01	Class 1	0.01
	Type	Class 1		Class 1		Class 1		Class 1		Class 1	
	Distance	Class 1		Class 1		Class 1		Class 1		Class 1	
		HSI =		HSI =		HSI =	0.02	HSI =	0.45	HSI =	0.62

GBRPC (model
version: 2018-
12-06 CW BLH

Project: WVA v1.2)
FWP

Acres: 134.9

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh							100	1.00	100	1.00
	Abandoned Ag							0		0	
	Pasture / Hay							0		0	
	Active Ag							0		0	
	Development							0		0	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type							3	1.00	3	1.00
	Distance	Class		Class		Class		Class		Class	
								3		3	
		HSI =		HSI =		HSI =		HSI =		HSI =	

GBRPC (model
version: 2018-
12-06 CW BLH

Project: WVA v1.2)
FWP

Acres: 134.9

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory /	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	

V4	Midstory Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

GBRPC (model
version: 2018-
12-06 CW BLH

Project: WVA v1.2)

Future Without Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	134.9		0.00	
1	134.9		0.00	0.00
2	134.9		0.00	0.00
22	134.9		0.00	0.00
52	134.9		0.00	0.00
Max TY=	52		Total AAHUs =	0.00
			AAHUs =	0.00

Future With Project

Total Cummulative

TY	Acres	x HSI	HUs	HUs
0	134.9		0.00	
1	134.9		0.00	0.00
2	134.9	0.02	3.15	1.58
22	134.9	0.45	61.05	642.05
52	134.9	0.62	83.53	2168.63
Max TY=	52		Total AAHUs =	2812.26
			AAHUs =	54.08

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: GRAVITY (model version: 2018-12-06 CW BLH WVA v1.2)

Acres: 75.2

AAHUs = 39.47

Condition: Future Without Project

Variable		TY	0	TY	1	TY	10	TY	20	TY	50
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		0		0		0	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None		None	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10
V5	Forest Size	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		36	0.53	36	0.53	36	0.53	36	0.53	36	0.53
	Forest / marsh	0		0		0		0		0	
	Abandoned Ag	31		31		31		31		31	
	Pasture / Hay	24		24		24		24		24	
	Active Ag	9		9		9		9		9	
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	3	0.41	3	0.41	3	0.41	3	0.41	3	0.41
	Distance	Class		Class		Class		Class		Class	
		1		1		1		1		1	
		HSI =		HSI =		HSI =		HSI =		HSI =	

GRAVITY

(model version:

2018-12-06 CW

Project: BLH WVA v1.2)

Acres: 75.2

FWOP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
		Understory %		Understory %		Understory %		Understory %		Understory %	

V3	Understory / Midstory	Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

GRAVITY

(model version:

2018-12-06 CW

Project: BLH WVA v1.2)

Acres: 75.2

FWOP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
	Disturbance										

V7	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

GRAVITY

(model version:

2018-12-06 CW

Project: BLH WVA v1.2)

Acres: 75.2

Condition: Future With Project

Variable		TY	0	TY	1	TY	20	TY	50	TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	5	1.00	5	1.00		
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0	1	0.00	20	0.30	50	1.00		
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		100		25		35			
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0		0	UNUSED	60	0.88	30	1.00		
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None		None	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.1	Temporary	0.50	Temporary	0.50	Temporary	0.50		
V5	Forest Size	Class		Class		Class		Class		Class	
		1		1	UNUSED	3	0.60	3	0.60		
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		36	0.5329	36	0.53	36	0.53	36	0.53		
	Forest / marsh	0		0		0		0			
	Abandoned Ag	31		31		31		31			
	Pasture / Hay	24		24		24		24			
	Active Ag	9		9		9		9			
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	3	0.41	3	0.41	3	0.41	3	0.41		
	Distance	Class		Class		Class		Class		Class	
		1		1		1		1			
		HSI =		HSI =	0.04	HSI =	0.57	HSI =	0.80	HSI =	

GRAVITY

(model version:

2018-12-06 CW

Project: BLH WVA v1.2)

Acres: 75.2

FWP

7/31/2019

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh							100	1.00	100	1.00
	Abandoned Ag							0		0	
	Pasture / Hay							0		0	
	Active Ag Development							0		0	
V7	Disturbance										
	Type	Class		Class		Class		Class	1.00	Class	1.00
	Distance	Class		Class		Class		Class		Class	
								3		3	
		HSI =		HSI =		HSI =		HSI =		HSI =	

GRAVITY

(model version:

2018-12-06 CW

Project: BLH WVA v1.2)

Acres: 75.2

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	

V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance										
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

GRAVITY

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	75.2		0.00	
1	75.2		0.00	0.00
10	75.2		0.00	0.00
20	75.2		0.00	0.00
50	75.2		0.00	0.00
Max TY= 50			Total	
			AAHUs =	0.00
			AAHUs =	0.00

Max TY=	50	Total AAHUs = 1973.50 AAHUs = 39.47		

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future Without Project AAHUs =	0.00
B. Future With Project AAHUs =	39.47
Net Change (FWP - FWOP) =	39.47

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: **1,126**

AAHUs = **365.24**

Condition: Future Without Project

Variable		TY	0	TY	1	TY	2	TY	3	TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0		0		0		0
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		10		10		10		10		7
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	30		30		30		30		30
		Class		Class		Class		Class		Class
		1	0.10	1	0.10	1	0.10	1	0.10	1
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0.1		0.1		0.1		0.1		0.1
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	0.1		0.1		0.1		0.1		0.1
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		0		0		0		0		0
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.00	0	0.00	0	0.00	0	0.00	0
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V4	Salinity	Low		Low		Low		Low		Low
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent
		Salinity		Salinity		Salinity		Salinity		Salinity
		1.6	0.96	1.6	0.96	1.6	0.96	1.6	0.96	1.6
		Class		Class		Class		Class		Class
V5	Forest Size	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1
		Values %		Values %		Values %		Values %		Values %
		99	0.99	99	0.99	99	0.99	99	0.99	99
		Forest / marsh		0		0		0		0
		Abandoned Ag		0		0		0		0
		Pasture / Hay		1		1		1		1
V6	Surrounding Land Use	Active Ag		0		0		0		0
		Development		Class		Class		Class		Class
		Disturbance		Class		Class		Class		Class
		Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class
V7	Disturbance	Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class

Type	4	1.00	4	1.00	4	1.00	4	1.00	4
Distance	Class		Class		Class		Class		Class
	3		3		3		3		3
	HSI =	0.08	HSI =	0.08	HSI =	0.08	HSI =	0.08	HSI =

Project: Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)
FWOP

Project Area: 1,126

Variable		TY	35	TY	50	TY		TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0						
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		5		2						
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	30		30						
		Class		Class		Class		Class		Class
		1	0.10	1	0.10					
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0.1		0.1						
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	0.1		0.1						
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		0		0						
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.00	0	0.00					
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V4	Salinity	Low		Low						
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Semi-Permanent	0.45	Permanent	0.30					
		Salinity		Salinity		Salinity		Salinity		Salinity
		1.6	0.96	1.7	0.91					1.8
		Class		Class		Class		Class		Class
V5	Forest Size	1	UNUSED	1	UNUSED					1
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %
		99	0.99	99	0.99					
		Forest / marsh		0						
		Abandoned Ag		0						
		Pasture / Hay		0						
		Active Ag		1						
V7	Disturbance	Development		0						
		Class		Class		Class		Class		Class

Type	4	1.00	4	1.00					
Distance	Class		Class		Class		Class		Class
	3		3						
	HSI =	0.08	HSI =	0.07	HSI =		HSI =		HSI =

Project: Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)
FWOP

Project Area: 1,126

Variable		TY		TY		TY		TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
V2	Stand Maturity	Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
		Class		Class		Class		Class		Class
V3	Water Regime	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
V4	Salinity									
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V5	Forest Size	Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
V6	Surrounding Land Use	Salinity		Salinity		Salinity		Salinity		Salinity
V7	Disturbance	Class		Class		Class		Class		Class

Type									
Distance	Class		Class		Class		Class		Class
	HSI =		HSI =		HSI =		HSI =		HSI =

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: 1,126

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	3	TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0		1		33		51
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		10		10		10		15		35
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	30		30		30		32		33
		Class		Class		Class		Class		Class
		1	0.1	1	0.10	1	0.10	2	0.20	6
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0.1		0.2		0.4		0.7		3.5
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	0.1		0.1		0.3		0.6		14
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		0		0		0		0		0
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.0002	0	0.00	0	0.00	0	0.00	0
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V4	Salinity	Low		Low		Low		Low		Low
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent
		Salinity		Salinity		Salinity		Salinity		Salinity
		1.6	0.955	1.6	0.96	1.6	0.96	1.6	0.96	1.6
		Class		Class		Class		Class		Class
V5	Forest Size	1		1	UNUSED	1	UNUSED	1	UNUSED	5
		Values %		Values %		Values %		Values %		Values %
		99	0.992	99	0.99	99	0.99	99	0.99	99
		Forest / marsh		Forest / marsh		Forest / marsh		Forest / marsh		Forest / marsh
		99	0.992	99	0.99	99	0.99	99	0.99	99
		99	0.992	99	0.99	99	0.99	99	0.99	99

	Abandoned Ag	0		0		0		0		0
	Pasture / Hay	0		0		0		0		0
	Active Ag	1		1		1		1		1
	Development	0		0		0		0		0
V7	Disturbance									
	Type	Class		Class		Class		Class		Class
		4	1	4	1.00	4	1.00	4	1.00	4
	Distance	Class		Class		Class		Class		Class
		3		3		3		3		3
		HSI =	0.08	HSI =	0.09	HSI =	0.10	HSI =	0.14	HSI =

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: 1,126

FWP

Variable		TY	35	TY	50	TY		TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		70		90						
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		38		33						
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
		35		33						
V2	Stand Maturity	Class		Class		Class		Class		Class
		6	1.00	6	1.00					
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		8.2		11.8						
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
		58.6		123.1						
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
V3	Water Regime	0		0						
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.09	0	0.54					
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
		Low		Low						
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Semi-Permanent	0.45	Permanent	0.30					
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity
		1.6	0.96	1.7	0.91					
V5	Forest Size	Class		Class		Class		Class		Class
		5	1.00	5	1.00					
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %
	Forest / marsh	99	0.99	99	0.99					

	Abandoned Ag	0		0					
	Pasture / Hay	0		0					
	Active Ag	1		1					
	Development	0		0					
V7	Disturbance								
	Type	Class		Class		Class		Class	
		4	1.00	4	1.00				
	Distance	Class		Class		Class		Class	
		3		3					
		HSI =	0.52	HSI =	0.67	HSI =		HSI =	

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: 1,126

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity
V5	Forest Size	Class		Class		Class		Class		Class
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %
	Forest / marsh									
	Abandoned Ag									
	Pasture / Hay									
	Active Ag									
	Development									
V7	Disturbance	Class		Class		Class		Class		Class
	Type									
	Distance	Class		Class		Class		Class		Class
		HSI =		HSI =		HSI =		HSI =		HSI =

AAHU CALCULATION

Project: Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	1126	0.08	87.38	
1	1126	0.08	87.38	87.38
2	1126	0.08	87.38	87.38
3	1126	0.08	87.38	87.38
15	1126	0.08	87.38	1048.61
35	1126	0.08	87.38	1747.68
50	1126	0.07	78.49	1244.02

Max TY=	50		Total	
			CHUs =	4302.47
			AAHUs =	86.05

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	1126	0.08	87.38	
1	1126	0.09	100.96	94.17
2	1126	0.10	116.64	108.80
3	1126	0.14	155.87	136.26
15	1126	0.30	341.02	2981.34
35	1126	0.52	583.38	9244.03
50	1126	0.67	749.95	9999.98
Max TY=	50		Total	
			CHUs =	22564.57
			AAHUs =	451.29

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	451.29
B. Future Without Project AAHUs =	86.05
Net Change (FWP - FWOP) =	365.24

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: **1,126**

AAHUs = **195.14**

Condition: Future Without Project

Variable		TY	0	TY	1	TY	2	TY	3	TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0		0		0		0
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		10		10		10		10		7
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	30		30		30		30		30
		Class		Class		Class		Class		Class
		1	0.10	1	0.10	1	0.10	1	0.10	1
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0.1		0.1		0.1		0.1		0.1
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	0.1		0.1		0.1		0.1		0.1
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		0		0		0		0		0
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.00	0	0.00	0	0.00	0	0.00	0
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V4	Salinity	Low		Low		Low		Low		Low
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Permanent
		Salinity		Salinity		Salinity		Salinity		Salinity
		1.6	0.96	1.6	0.96	1.6	0.96	1.6	0.96	1.6
		Class		Class		Class		Class		Class
V5	Forest Size	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1
		Values %		Values %		Values %		Values %		Values %
		99	0.99	99	0.99	99	0.99	99	0.99	99
		Abandoned Ag		0		0		0		0
		Pasture / Hay		0		0		0		0
		Active Ag		1		1		1		1
V6	Surrounding Land Use	Development		0		0		0		0
		Disturbance		Class		Class		Class		Class
		Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class

Type	4	1.00	4	1.00	4	1.00	4	1.00	4
Distance	Class		Class		Class		Class		Class
	3		3		3		3		3
	HSI =	0.08	HSI =	0.08	HSI =	0.08	HSI =	0.08	HSI =

Project: Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)

Project Area: 1,126

FWOP

Variable		TY	35	TY	50	TY		TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0						
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		5		2						
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	30		30						
		Class		Class		Class		Class		Class
		1	0.10	1	0.10					
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0.1		0.1						
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	0.1		0.1						
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		0		0						
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.00	0	0.00					
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V4	Salinity	Low		Low						
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Permanent	0.30	Permanent	0.30					
		Salinity		Salinity		Salinity		Salinity		Salinity
		1.7	0.91	1.9	0.82					1.8
		Class		Class		Class		Class		Class
V5	Forest Size	1	UNUSED	1	UNUSED					1
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %
		99	0.99	99	0.99					
		Forest / marsh		0						
		Abandoned Ag		0						
		Pasture / Hay		0						
		Active Ag		1						
V7	Disturbance	Development		0						
		Class		Class		Class		Class		Class

Type	4	1.00	4	1.00					
Distance	Class		Class		Class		Class		Class
	3		3						
	HSI =	0.07	HSI =	0.07	HSI =		HSI =		HSI =

Project: Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)
FWOP

Project Area: 1,126

Variable		TY		TY		TY		TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
V2	Stand Maturity	Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
		Class		Class		Class		Class		Class
V3	Water Regime	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
V4	Salinity									
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V5	Forest Size	Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
V6	Surrounding Land Use	Salinity		Salinity		Salinity		Salinity		Salinity
V7	Disturbance	Class		Class		Class		Class		Class

Type									
Distance	Class		Class		Class		Class		Class
	HSI =		HSI =		HSI =		HSI =		HSI =

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: 1,126

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	3	TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0		1		33		51
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		10		10		10		15		35
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
		30		30		30		32		33
		Class		Class		Class		Class		Class
		1	0.1	1	0.10	1	0.10	2	0.20	6
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0.1		0.2		0.3		0.4		1.8
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
		0.1		0.1		0.1		0.3		3.8
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		0		0		0		0		0
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.0002	0	0.00	0	0.00	0	0.00	0
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
		Low		Low		Low		Low		Low
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Permanent
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity
		1.6	0.955	1.6	0.96	1.6	0.96	1.6	0.96	1.6
V5	Forest Size	Class		Class		Class		Class		Class
		1		1	UNUSED	1	UNUSED	1	UNUSED	5
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %
	Forest / marsh	99	0.992	99	0.99	99	0.99	99	0.99	99

	Abandoned Ag	0		0		0		0		0
	Pasture / Hay	0		0		0		0		0
	Active Ag	1		1		1		1		1
	Development	0		0		0		0		0
V7	Disturbance									
	Type	Class		Class		Class		Class		Class
		4	1	4	1.00	4	1.00	4	1.00	4
	Distance	Class		Class		Class		Class		Class
		3		3		3		3		3
		HSI =	0.08	HSI =	0.09	HSI =	0.10	HSI =	0.12	HSI =

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: 1,126

FWP

Variable		TY	35	TY	50	TY		TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		70		90						
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		38		33						
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
		35		33						
V2	Stand Maturity	Class		Class		Class		Class		Class
		6	1.00	6	1.00					
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		4.1		5.8						
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
		14.5		29.1						
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
V3	Water Regime	0		0						
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.01	0	0.02					
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
		Low		Low						
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Permanent	0.30	Permanent	0.30					
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity
		1.7	0.91	1.9	0.82					
V5	Forest Size	Class		Class		Class		Class		Class
		5	UNUSED	5	1.00					
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %
	Forest / marsh	99	0.99	99	0.99					

	Abandoned Ag	0		0					
	Pasture / Hay	0		0					
	Active Ag	1		1					
	Development	0		0					
V7	Disturbance								
	Type	Class		Class		Class		Class	
		4	1.00	4	1.00				
	Distance	Class		Class		Class		Class	
		3		3					
		HSI =	0.28	HSI =	0.33	HSI =		HSI =	

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: 1,126

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity
V5	Forest Size	Class		Class		Class		Class		Class
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %
	Forest / marsh									
	Abandoned Ag									
	Pasture / Hay									
	Active Ag									
	Development									
V7	Disturbance	Class		Class		Class		Class		Class
	Type	Class		Class		Class		Class		Class
	Distance	Class		Class		Class		Class		Class
		HSI =		HSI =		HSI =		HSI =		HSI =

AAHU CALCULATION

Project: Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	1126	0.08	87.38	
1	1126	0.08	87.38	87.38
2	1126	0.08	87.38	87.38
3	1126	0.08	87.38	87.38
15	1126	0.07	78.96	998.07
35	1126	0.07	78.49	1574.46
50	1126	0.07	77.47	1169.67

Max TY=	50		Total	
			CHUs =	4004.35
			AAHUs =	80.09

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	1126	0.08	87.38	
1	1126	0.09	100.96	94.17
2	1126	0.10	109.86	105.41
3	1126	0.12	138.71	124.29
15	1126	0.24	265.81	2427.17
35	1126	0.28	316.23	5820.42
50	1126	0.33	375.73	5189.71
Max TY=	50		Total	
			CHUs =	13761.17
			AAHUs =	275.22

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	275.22
B. Future Without Project AAHUs =	80.09
Net Change (FWP - FWOP) =	195.14

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: **1,126**

AAHUs = **68.68**

Condition: Future Without Project

Variable		TY	0	TY	1	TY	2	TY	3	TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0		0		0		0
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		10		10		10		10		7
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	30		30		30		30		30
		Class		Class		Class		Class		Class
		1	0.10	1	0.10	1	0.10	1	0.10	1
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0.1		0.1		0.1		0.1		0.1
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	0.1		0.1		0.1		0.1		0.1
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		0		0		0		0		0
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.00	0	0.00	0	0.00	0	0.00	0
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V4	Salinity	Low		Low		Low		Low		Low
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Permanent
		Salinity		Salinity		Salinity		Salinity		Salinity
		1.6	0.96	1.6	0.96	1.6	0.96	1.6	0.96	1.7
		Class		Class		Class		Class		Class
V5	Forest Size	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1
		Values %		Values %		Values %		Values %		Values %
		99	0.99	99	0.99	99	0.99	99	0.99	99
		Forest / marsh		0		0		0		0
		Abandoned Ag		0		0		0		0
		Pasture / Hay		1		1		1		1
V6	Surrounding Land Use	Active Ag		0		0		0		0
		Development		Class		Class		Class		Class
		Disturbance		Class		Class		Class		Class
		Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class
		Class		Class		Class		Class		Class

Type	4	1.00	4	1.00	4	1.00	4	1.00	4
Distance	Class		Class		Class		Class		Class
	3		3		3		3		3
	HSI =	0.08	HSI =	0.08	HSI =	0.08	HSI =	0.08	HSI =

Project: Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)
FWOP

Project Area: 1,126

Variable		TY	20	TY	35	TY	50	TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0		0				
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		6		5		2				
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
		30		30		30				
V2	Stand Maturity	Class		Class		Class		Class		Class
		1	0.10	1	0.10	1	0.10			
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0.1		0.1		0.1				
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
		0.1		0.1		0.1				
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
V3	Water Regime	0		0		0				
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.00	0	0.00	0	0.00			
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
		Moderate		Moderate		Moderate				
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Permanent	0.45	Permanent	0.45	Permanent	0.45			
V4	Salinity	Class		Class		Class		Class		Class
		1.7	0.91	1.8	0.87	2.0	0.78			1.8
V5	Forest Size	Class	UNUSED	Class	UNUSED	Class		Class		Class
V6	Surrounding Land Use	1		1						1
		Values %		Values %		Values %		Values %		Values %
		99	0.99	99	0.99	99	0.99			
		Forest / marsh		0		0				
		Abandoned Ag		0		0				
		Pasture / Hay		0		0				
V7	Disturbance	Active Ag		1		1				
		Development		0		0				
		Class		Class		Class		Class		Class

Type	4	1.00	4	1.00	4	1.00			
Distance	Class		Class		Class		Class		Class
	3		3		3				
	HSI =	0.08	HSI =	0.08	HSI =	0.08	HSI =		HSI =

Project: Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)
FWOP

Project Area: 1,126

Variable		TY		TY		TY		TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
V2	Stand Maturity	Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
		Class		Class		Class		Class		Class
V3	Water Regime	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
V4	Salinity									
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V5	Forest Size	Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
V6	Surrounding Land Use	Salinity		Salinity		Salinity		Salinity		Salinity
V7	Disturbance	Class		Class		Class		Class		Class

Type									
Distance	Class		Class		Class		Class		Class
	HSI =		HSI =		HSI =		HSI =		HSI =

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: 1,126

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	3	TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		0		0		1		33		51
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		10		10		10		15		35
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	30		30		30		32		33
		Class		Class		Class		Class		Class
		1	0.1	1	0.10	1	0.10	2	0.20	6
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		0.1		0.2		0.3		0.4		1.8
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	0.1		0.1		0.1		0.3		3.8
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		0		0		0		0		0
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.0002	0	0.00	0	0.00	0	0.00	0
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V4	Salinity	Low		Low		Low		Low		Low
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Permanent
		Salinity		Salinity		Salinity		Salinity		Salinity
		1.6	0.955	1.6	0.96	1.6	0.96	1.6	0.96	1.7
		Class		Class		Class		Class		Class
V5	Forest Size	1		1	UNUSED	1	UNUSED	1	UNUSED	5
		Values %		Values %		Values %		Values %		Values %
V6	Surrounding Land Use	Forest / marsh		Forest / marsh		Forest / marsh		Forest / marsh		Forest / marsh
		99	0.992	99	0.99	99	0.99	99	0.99	99

	Abandoned Ag	0		0		0		0		0
	Pasture / Hay	0		0		0		0		0
	Active Ag	1		1		1		1		1
	Development	0		0		0		0		0
V7	Disturbance									
	Type	Class		Class		Class		Class		Class
		4	1	4	1.00	4	1.00	4	1.00	4
	Distance	Class		Class		Class		Class		Class
		3		3		3		3		3
		HSI =	0.08	HSI =	0.09	HSI =	0.10	HSI =	0.12	HSI =

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: 1,126

FWP

Variable		TY	20	TY	35	TY	50	TY		TY
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover
		Overstory		Overstory		Overstory		Overstory		Overstory
		33		0		0				
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub
		15		0		0				
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous
V2	Stand Maturity	45		0		0				
		Class		Class		Class		Class		Class
		3	0.40	1	0.10	1	0.10			
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh
		1.9		0.1		0.1				
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area
V3	Water Regime	3.3		0.1		0.1				
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		0		0		0				
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
		0	0.00	0	0.00	0	0.00			
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
V4	Salinity	Moderate		Moderate		Moderate				
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
		Permanent	0.45	Permanent	0.45	Permanent	0.45			
V5	Forest Size	Salinity		Salinity		Salinity		Salinity		Salinity
		1.7	0.91	1.8	0.87	2.0	0.78			
V6	Surrounding Land Use	Class		Class		Class		Class		Class
		1	UNUSED	1	UNUSED	1	UNUSED			
	Forest / marsh	Values %		Values %		Values %		Values %		Values %
		99	0.99	99	0.99	99	0.99			

	Abandoned Ag	0		0		0			
	Pasture / Hay	0		0		0			
	Active Ag	1		1		1			
	Development	0		0		0			
V7	Disturbance	Class		Class		Class		Class	
	Type	4	1.00	4	1.00	4	1.00		
		Class		Class		Class		Class	
	Distance	3		3		3			
		HSI =	0.21	HSI =	0.08	HSI =	0.08	HSI =	

Project: **Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)**

Project Area: 1,126

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity
V5	Forest Size	Class		Class		Class		Class		Class
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %
	Forest / marsh									
	Abandoned Ag									
	Pasture / Hay									
	Active Ag									
	Development									
V7	Disturbance	Class		Class		Class		Class		Class
	Type	Class		Class		Class		Class		Class
	Distance	Class		Class		Class		Class		Class
		HSI =		HSI =		HSI =		HSI =		HSI =

AAHU CALCULATION

Project: Joyce WMA (model version: 2018-12-06 CW SWAMP WVA v2.0)

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	1126	0.08	87.38	
1	1126	0.08	87.38	87.38
2	1126	0.08	87.38	87.38
3	1126	0.08	87.38	87.38
15	1126	0.07	78.49	995.22
20	1126	0.08	86.86	413.36
35	1126	0.08	86.31	1298.76
50	1126	0.08	0.00	644.38

Max TY=	50		Total	
			CHUs =	3613.87
			AAHUs =	72.28

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	1126	0.08	87.38	
1	1126	0.09	100.96	94.17
2	1126	0.10	109.86	105.41
3	1126	0.12	138.71	124.29
15	1126	0.23	264.22	2417.58
20	1126	0.21	235.41	1249.08
35	1126	0.08	86.31	2412.93
50		0.08	0.00	644.38
Max TY=	50		Total	
			CHUs =	7047.83
			AAHUs =	140.96

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	140.96
B. Future Without Project AAHUs =	72.28
Net Change (FWP - FWOP) =	68.68

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: Krotz

Acres: 147.2

AAHUs = 72.68

Condition: Future Without Project

Variable		TY 0		TY 1		TY 25		TY 50		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class	
V2	Maturity (input age or dbh, not both)	Age 3	0.01	Age 4	0.02	Age 4	0.02	Age 4	0.02	Age	
		dbh 0		dbh 0		dbh 0		dbh 0		dbh	
V3	Understory / Midstory	Understory % 80		Understory % 80		Understory % 80		Understory % 80		Understory %	
		Midstory % 20	UNUSED	Midstory % 20	UNUSED	Midstory % 20	UNUSED	Midstory % 20	UNUSED	Midstory %	
V4	Hydrology	Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange	
		Flooding Duration Temporary	0.70	Flooding Duration Temporary	0.70	Flooding Duration Temporary	0.70	Flooding Duration Temporary	0.70	Flooding Duration	
V5	Forest Size	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class 1	UNUSED	Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	86	0.92	86	0.92	86	0.92	86	0.92	86	0.92
	Abandoned Ag	9		9		9		9		9	
	Pasture / Hay	0		0		0		0		0	
	Active Ag	4		4		4		4		4	
	Development	1		1		1		1		1	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	4	1.00	4	1.00	4	1.00	4	1.00	4	
	Distance	Class 1		Class 1		Class 1		Class 1		Class 1	
		HSI =	0.09	HSI =	0.13	HSI =	0.13	HSI =	0.13	HSI =	

Project: Krotz
FWOP

Acres: 147.2

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory /	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	

	Midstory										
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type										
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Project: Krotz
FWOP

Acres: 147.2

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type										
	Distance	Class		Class		Class		Class		Class	

HSI =	HSI =	HSI =	HSI =	HSI =
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WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: Krotz

Acres: 147.2

Condition: Future With Project

Variable		TY	0	TY	1	TY	20	TY	59	TY			
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI		
V1	Tree Species Composition	Class		Class		Class		Class		Class			
		1		1	UNUSED	5	1.00	5	1.00				
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age			
		3	0.0099	1	0.00	20	0.30	50	1.00				
		dbh		dbh		dbh		dbh		dbh			
		0		0									
		V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
				80		100		25		35			
Midstory %				Midstory %		Midstory %		Midstory %		Midstory %			
		20		0	UNUSED	60	0.88	30	1.00				
		V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
				Low		Low		Low		Low			
Flooding Duration				Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration			
		Temporary	0.7	Temporary	0.70	Temporary	0.70	Temporary	0.70				
		V5	Forest Size	Class		Class		Class		Class		Class	
				1		1	UNUSED	1	0.20	5	1.00		
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %			
		Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development	86	0.9221	86	0.92	86	0.92	86	0.92			
			9		9		9		9				
			0		0		0		0				
			4		4		4		4				
V7	Disturbance Type Distance	1		1		1		1					
		Class		Class		Class		Class		Class			
		4	1	4	1.00	4	1.00	4	1.00				
		Class		Class		Class		Class		Class			
		1		1		1		1					
		HSI =	0.09	HSI =	0.05	HSI =	0.61	HSI =	0.95	HSI =			

Project: Krotz

Acres: 147.2

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	

	both)										
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh							100	1.00	100	1.00
	Abandoned Ag							0		0	
	Pasture / Hay							0		0	
	Active Ag Development							0		0	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type							3	1.00	3	1.00
	Distance	Class		Class		Class		Class		Class	
								3		3	
HSI =				HSI =		HSI =		HSI =		HSI =	

Project: Krotz
FWP

Acres: 147.2

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	

Type											
Distance		Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Project: Krotz

Future Without Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	147.2	0.09	13.26	
1	147.2	0.13	18.85	16.06
25	147.2	0.13	18.85	452.38
50	147.2	0.13	18.85	471.23
Max TY= 50			Total AAHUs =	939.67
			AAHUs =	18.79

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	147.2	0.09	13.26	
1	147.2	0.05	7.66	10.46
20	147.2	0.61	89.36	921.65
59	147.2	0.95	139.61	4464.84
Max TY= 59			Total AAHUs =	5396.96

AAHUs =	91.47
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NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future Without Project AAHUs =	18.79
B. Future With Project AAHUs =	91.47
Net Change (FWP - FWOP) =	72.68

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Pine Island Mitigation Site w lakeshore impoundment_Low SLR**

Project Area: **1,966**

AAHUs = **833.17**

Condition: Future Without Project

Variable		TY	0	TY	1	TY	2	TY	3	TY	4
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0.1		0.1		0.1		0.1		0.1	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		0		0		0	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		2		2		1		1		1	
	Class		Class		Class		Class		Class		
	1	0.10	1	0.10	1	0.10	1	0.10	1	0.10	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		0		0		0		0		0	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		0.001		0.001		0.1		0.1		0.1	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0		0		0	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Low		Low		Low		Low		Low	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.30	Permanent	0.30	Permanent	0.30	Permanent	0.30	Permanent	0.30
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		1.3	1.00	1.3	1.00	1.3	1.00	1.3	1.00	1.3	1.00
V5	Forest Size	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		75	0.80	75	0.80	75	0.80	75	0.80	75	0.80
		0		0		0		0		0	
		0		0		0		0		0	
		23		23		23		23		23	
		2		2		2		2		2	
V7	Disturbance	Class		Class		Class		Class		Class	
		2	1.00	2	1.00	2	1.00	2	1.00	2	1.00
		Class		Class		Class		Class		Class	
		3		3		3		3		3	
		HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR

Project Area: 1,966

FWOP

	TY	15	TY	35	TY	52	TY		TY	
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Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI			
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover				
		Overstory		Overstory		Overstory		Overstory		Overstory				
		0		0.1		0.1								
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub				
		0		0		0								
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous				
		1		0		0								
	Class			Class				Class						
	1	0.10	1	0.10	1	0.10								
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh				
		0		0		0								
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area				
		0.1		0.1		0.1								
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh				
		0		0		0								
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area				
0	0.00	0	0.00	0	0.00									
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange				
		Low		Low		None								
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration				
	Permanent	0.30	Permanent	0.30	Permanent	0.10								
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity				
		1.4		1.00		1.5		1.00		1.6		0.96		
V5	Forest Size	Class	UNUSED	Class	UNUSED	Class	UNUSED	Class		Class				
		1		1		1		1		1				
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %				
		75		0.80		75		0.80		75		0.80		
		0				0				0				
		0				0				0				
		23				23				23				
2		2		2										
V7	Disturbance	Class		Class		Class		Class		Class				
		2		1.00		2		1.00		2		1.00		
		Class				Class				Class			Class	
		3				3				3				
		HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =		HSI =				

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR
FWOP

Project Area: 1,966

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	

V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR

Project Area: 1,966

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	3	TY	4
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0.1		0		0		33		35	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		3		14		12	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		2		30		32		30		30	
		Class		Class		Class		Class		Class	
		1	0.1	1	0.10	1	0.10	2	0.20	2	0.20
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		0		0.1		0.2		0.4		0.7	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		0.001		0.1		0.1		0.3		0.6	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0		0		0	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0	0	0.00	0	0.00	0	0.00	0	0.00
V3	Water Regime	Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low	
		Flooding Duration Permanent	0.3	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		1.3	1	1.3	1.00	1.3	1.00	1.3	1.00	1.3	1.00
		Class		Class		Class		Class		Class	
V5	Forest Size	1		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	75	0.7962	75	0.80	75	0.80	75	0.80	75	0.80
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	0		0		0		0		0	
	Active Ag	23		23		23		23		23	
	Development	2		2		2		2		2	
V7	Disturbance Type Distance	Class 2 Class 3	1	Class 2 Class 3	1.00	Class 2 Class 3	1.00	Class 2 Class 3	1.00	Class 2 Class 3	1.00
		HSI =	0.00	HSI =	0.08	HSI =	0.10	HSI =	0.13	HSI =	0.15

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR
FWP

Project Area: 1,966

Variable		TY	15	TY	35	TY	52	TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		51		70		90					
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		42		38		33					
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		35		35		33					
		Class		Class		Class		Class		Class	
		6	1.00	6	1.00	6	1.00				
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		3.2		7.9		11.6					
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		12.2		55.3		118.4					
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0					
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0.01	0	0.08	0	0.40				
V3	Water Regime	Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange		Flow/Exchange	
		Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65	Flooding Duration Semi-Permanent	0.45	Flooding Duration		Flooding Duration	

V4	Salinity	Salinity 1.3	1.00	Salinity 1.4	1.00	Salinity 1.5	1.00	Salinity		Salinity	
		Class		Class		Class		Class		Class	
V5	Forest Size	5	UNUSED	5	1.00	5	1.00				
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	75	0.80	75	0.80	75	0.80				
	Abandoned Ag	0		0		0					
	Pasture / Hay	0		0		0					
	Active Ag	23		23		23					
	Development	2		2		2					
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	2	1.00	2	1.00	2	1.00				
		Class		Class		Class		Class		Class	
	Distance	3		3		3					
		HSI =	0.32	HSI =	0.54	HSI =	0.68	HSI =		HSI =	

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR

Project Area: 1,966

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
V2	Stand Maturity										
		Class		Class		Class		Class		Class	
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	1966	0.00	0.00	
1	1966	0.00	0.00	0.00
2	1966	0.00	0.00	0.00
3	1966	0.00	0.00	0.00
4	1966	0.00	0.00	0.00
15	1966	0.00	0.00	0.00
35	1966	0.00	0.00	0.00
52	1966	0.00	0.00	0.00

Max TY=	52		Total	
			CHUs =	0.00
			AAHUs =	0.00

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	1966	0.00	0.00	
1	1966	0.08	165.18	82.59
2	1966	0.10	190.84	178.01
3	1966	0.13	262.20	226.52
4	1966	0.15	294.62	278.41
15	1966	0.32	632.12	5097.07
35	1966	0.54	1065.54	16976.53
52	1966	0.68	1344.55	20485.69
Max TY=	52		Total	
			CHUs =	43324.81
			AAHUs =	833.17

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	833.17
B. Future Without Project AAHUs =	0.00
Net Change (FWP - FWOP) =	833.17

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Pine Island Mitigation Site w lakeshore impoundment_Low SLR**

Project Area: **1,966**

AAHUs = **833.17**

Condition: Future Without Project

Variable		TY	0	TY	1	TY	2	TY	3	TY	4
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0.1		0.1		0.1		0.1		0.1	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		0		0		0	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		2		2		1		1		1	
V2	Stand Maturity	Class		Class		Class		Class		Class	
		1	0.10	1	0.10	1	0.10	1	0.10	1	0.10
	Cypress dbh	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		0		0		0		0		0	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		0.001		0.001		0.1		0.1		0.1	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0		0		0	
V3	Water Regime	Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
	Flow/Exchange	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Low		Low		Low		Low		Low	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.30	Permanent	0.30	Permanent	0.30	Permanent	0.30	Permanent	0.30
	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		1.3	1.00	1.3	1.00	1.3	1.00	1.3	1.00	1.3	1.00
V4	Forest Size	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V5	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		75	0.80	75	0.80	75	0.80	75	0.80	75	0.80
		0		0		0		0		0	
		0		0		0		0		0	
		23		23		23		23		23	
		Active Ag		2		2		2		2	
		Development									
V6	Disturbance	Class		Class		Class		Class		Class	
		2	1.00	2	1.00	2	1.00	2	1.00	2	1.00
	Type	Class		Class		Class		Class		Class	
		3		3		3		3		3	
		Class		Class		Class		Class		Class	
		2		2		2		2		2	
		Distance									
V7		HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR

Project Area: 1,966

FWOP

	TY	15	TY	35	TY	52	TY		TY	
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Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI			
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover				
		Overstory		Overstory		Overstory		Overstory		Overstory				
		0		0.1		0.1								
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub				
		0		0		0								
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous				
		1		0		0								
	Class			Class				Class						
	1	0.10	1	0.10	1	0.10								
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh				
		0		0		0								
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area				
		0.1		0.1		0.1								
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh				
		0		0		0								
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area				
0	0.00	0	0.00	0	0.00									
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange				
		Low		Low		None								
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration				
	Permanent	0.30	Permanent	0.30	Permanent	0.10								
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity				
		1.4		1.00		1.5		1.00		1.6		0.96		
V5	Forest Size	Class	UNUSED	Class	UNUSED	Class	UNUSED	Class		Class				
		1		1		1		1						
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %				
		75		0.80		75		0.80		75		0.80		
		0				0				0				
		0				0				0				
		23				23				23				
2		2		2										
V7	Disturbance	Class		Class		Class		Class		Class				
		2		1.00		2		1.00		2		1.00		
		Class				Class				Class			Class	
		3				3				3				
		HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =		HSI =				

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR
FWOP

Project Area: 1,966

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	

V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR

Project Area: 1,966

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	3	TY	4
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0.1		0		0		33		35	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		3		14		12	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		2		30		32		30		30	
		Class		Class		Class		Class		Class	
		1	0.1	1	0.10	1	0.10	2	0.20	2	0.20
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		0		0.1		0.2		0.4		0.7	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		0.001		0.1		0.1		0.3		0.6	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0		0		0	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0	0	0.00	0	0.00	0	0.00	0	0.00
V3	Water Regime	Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low	
		Flooding Duration Permanent	0.3	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		1.3	1	1.3	1.00	1.3	1.00	1.3	1.00	1.3	1.00
		Class		Class		Class		Class		Class	
V5	Forest Size	1		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	75	0.7962	75	0.80	75	0.80	75	0.80	75	0.80
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	0		0		0		0		0	
	Active Ag	23		23		23		23		23	
	Development	2		2		2		2		2	
V7	Disturbance Type Distance	Class 2 Class 3	1	Class 2 Class 3	1.00	Class 2 Class 3	1.00	Class 2 Class 3	1.00	Class 2 Class 3	1.00
		HSI =	0.00	HSI =	0.08	HSI =	0.10	HSI =	0.13	HSI =	0.15

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR
FWP

Project Area: 1,966

Variable		TY	15	TY	35	TY	52	TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		51		70		90					
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		42		38		33					
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		35		35		33					
		Class		Class		Class		Class		Class	
		6	1.00	6	1.00	6	1.00				
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		3.2		7.9		11.6					
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		12.2		55.3		118.4					
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0					
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0.01	0	0.08	0	0.40				
V3	Water Regime	Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange		Flow/Exchange	
		Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65	Flooding Duration Semi-Permanent	0.45	Flooding Duration		Flooding Duration	

V4	Salinity	Salinity 1.3	1.00	Salinity 1.4	1.00	Salinity 1.5	1.00	Salinity		Salinity	
		Class		Class		Class		Class		Class	
V5	Forest Size	5	UNUSED	5	1.00	5	1.00				
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	75	0.80	75	0.80	75	0.80				
	Abandoned Ag	0		0		0					
	Pasture / Hay	0		0		0					
	Active Ag	23		23		23					
	Development	2		2		2					
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	2	1.00	2	1.00	2	1.00				
		Class		Class		Class		Class		Class	
	Distance	3		3		3					
		HSI =	0.32	HSI =	0.54	HSI =	0.68	HSI =		HSI =	

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR

Project Area: 1,966

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
V2	Stand Maturity										
		Class		Class		Class		Class		Class	
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Project: Pine Island Mitigation Site w lakeshore impoundment_Low SLR

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	1966	0.00	0.00	
1	1966	0.00	0.00	0.00
2	1966	0.00	0.00	0.00
3	1966	0.00	0.00	0.00
4	1966	0.00	0.00	0.00
15	1966	0.00	0.00	0.00
35	1966	0.00	0.00	0.00
52	1966	0.00	0.00	0.00

Max TY=	52		Total	
			CHUs =	0.00
			AAHUs =	0.00

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	1966	0.00	0.00	
1	1966	0.08	165.18	82.59
2	1966	0.10	190.84	178.01
3	1966	0.13	262.20	226.52
4	1966	0.15	294.62	278.41
15	1966	0.32	632.12	5097.07
35	1966	0.54	1065.54	16976.53
52	1966	0.68	1344.55	20485.69
Max TY=	52		Total	
			CHUs =	43324.81
			AAHUs =	833.17

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	833.17
B. Future Without Project AAHUs =	0.00
Net Change (FWP - FWOP) =	833.17

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Pine Island Mitigation Site w lakeshore impoundment_Med SLR**

Project Area: **1,966**

AAHUs = **775.11**

Condition: Future Without Project

Variable		TY	0	TY	1	TY	2	TY	3	TY	4			
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI			
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover				
		Overstory		Overstory		Overstory		Overstory		Overstory				
		0.1		0.1		0.1		0.1		0.1				
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub				
		0		0		0		0		0				
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous				
		2		2		1		1		1				
	Class		Class		Class		Class		Class					
	1	0.10	1	0.10	1	0.10	1	0.10	1	0.10				
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh				
		0		0		0		0		0				
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area				
		0.001		0.001		0.1		0.1		0.1				
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh				
		0		0		0		0		0				
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area				
	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00				
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange				
		Low		Low		Low		Low		Low				
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration				
		Permanent		Permanent		Permanent		Permanent		Permanent				
		0.30		0.30		0.30		0.30		0.30				
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity				
		1.3		1.00		1.3		1.00		1.3		1.00	1.3	1.00
V5	Forest Size	Class		Class		Class		Class		Class				
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED			
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %				
		75		0.80		75		0.80		75		0.80	75	0.80
		0				0				0			0	
		0				0				0			0	
		23				23				23			23	
		2				2				2			2	
V7	Disturbance	Class		Class		Class		Class		Class				
		2		1.00		2		1.00		2		1.00	2	1.00
		Class				Class				Class			Class	
		3				3				3			3	
		HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00			

Project: **Pine Island Mitigation Site w lakeshore impoundment_Med SLR**

Project Area: **1,966**

FWOP

	TY	15	TY	35	TY	52	TY		TY	
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Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0		0.1		0.1					
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		0					
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		1		0		0					
		Class		Class		Class		Class		Class	
1	0.10	1	0.10	1	0.10						
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		0		0		0					
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		0.1		0.1		0.1					
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0					
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0.00	0	0.00	0	0.00				
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Low		Low		None					
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.30	Permanent	0.30	Permanent	0.10				
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		1.4	1.00	1.5	1.00	1.6	0.96				
V5	Forest Size	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED				
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		Forest / marsh	75	75	0.80	75	0.80				
		Abandoned Ag	0	0		0					
		Pasture / Hay	0	0		0					
		Active Ag	23	23		23					
		Development	2	2		2					
V7	Disturbance	Class		Class		Class		Class		Class	
		2	1.00	2	1.00	2	1.00				
		Class		Class		Class		Class		Class	
		3		3		3					
		Distance									
		HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =		HSI =	

Project: Pine Island Mitigation Site w lakeshore impoundment_Med SLR
FWOP

Project Area: 1,966

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	

V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: Pine Island Mitigation Site w lakeshore impoundment_Med SLR

Project Area: 1,966

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	3	TY	4
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0.1		0		0		33		35	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		3		14		12	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		2		30		32		30		30	
		Class		Class		Class		Class		Class	
		1	0.1	1	0.10	1	0.10	2	0.20	2	0.20
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		0		0.1		0.2		0.4		0.7	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		0.001		0.1		0.1		0.3		0.6	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0		0		0	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0	0	0.00	0	0.00	0	0.00	0	0.00
V3	Water Regime	Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low	
		Flooding Duration Permanent	0.3	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		1.3	1	1.3	1.00	1.3	1.00	1.3	1.00	1.3	1.00
V5	Forest Size	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	75	0.7962	75	0.80	75	0.80	75	0.80	75	0.80
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	0		0		0		0		0	
	Active Ag	23		23		23		23		23	
	Development	2		2		2		2		2	
V7	Disturbance Type Distance	Class		Class		Class		Class		Class	
		2	1	2	1.00	2	1.00	2	1.00	2	1.00
		Class		Class		Class		Class		Class	
		3		3		3		3		3	
		HSI =	0.00	HSI =	0.08	HSI =	0.10	HSI =	0.13	HSI =	0.15

Project: Pine Island Mitigation Site w lakeshore impoundment_Med SLR
FWP

Project Area: 1,966

Variable		TY	15	TY	35	TY	52	TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		51		70		90					
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		42		38		33					
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		35		35		33					
		Class		Class		Class		Class		Class	
		6	1.00	6	1.00	6	1.00				
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		3.2		7.9		10.7					
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		12.2		55.3		100.7					
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0					
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0.01	0	0.08	0	0.33				
V3	Water Regime	Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange		Flow/Exchange	
		Flooding Duration Temporary	0.65	Flooding Duration Semi-Permanent	0.45	Flooding Duration Permanent	0.30	Flooding Duration		Flooding Duration	

V4	Salinity	Salinity 1.4	1.00	Salinity 1.5	1.00	Salinity 1.6	0.96	Salinity		Salinity	
		Class		Class		Class		Class		Class	
V5	Forest Size	5	UNUSED	5	1.00	5	1.00				
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	75	0.80	75	0.80	75	0.80				
	Abandoned Ag	0		0		0					
	Pasture / Hay	0		0		0					
	Active Ag	23		23		23					
	Development	2		2		2					
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	2	1.00	2	1.00	2	1.00				
		Class		Class		Class		Class		Class	
	Distance	3		3		3					
		HSI =	0.32	HSI =	0.50	HSI =	0.60	HSI =		HSI =	

Project: Pine Island Mitigation Site w lakeshore impoundment_Med SLR

Project Area: 1,966

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
V2	Stand Maturity										
		Class		Class		Class		Class		Class	
		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Project: Pine Island Mitigation Site w lakeshore impoundment_Med SLR

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	1966	0.00	0.00	
1	1966	0.00	0.00	0.00
2	1966	0.00	0.00	0.00
3	1966	0.00	0.00	0.00
4	1966	0.00	0.00	0.00
15	1966	0.00	0.00	0.00
35	1966	0.00	0.00	0.00
52	1966	0.00	0.00	0.00

Max TY=	52		Total	
			CHUs =	0.00
			AAHUs =	0.00

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	1966	0.00	0.00	
1	1966	0.08	165.18	82.59
2	1966	0.10	190.84	178.01
3	1966	0.13	262.20	226.52
4	1966	0.15	294.62	278.41
15	1966	0.32	632.12	5097.07
35	1966	0.50	978.84	16109.63
52	1966	0.60	1178.04	18333.53
Max TY=	52		Total	
			CHUs =	40305.75
			AAHUs =	775.11

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	775.11
B. Future Without Project AAHUs =	0.00
Net Change (FWP - FWOP) =	775.11

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: **Pine Island Mitigation Site w lakeshore impoundment_HIGH SLR**

Project Area: **1,966**

AAHUs = **389.01**

Condition: Future Without Project

Variable		TY	0	TY	1	TY	2	TY	3	TY	4
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0.1		0.1		0.1		0.1		0.1	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		0		0		0	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		2		2		2		2		2	
	Class		Class		Class		Class		Class		
	1	0.10	1	0.10	1	0.10	1	0.10	1	0.10	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		0		0		0		0		0	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		0.001		0.001		0.1		0.1		0.1	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0		0		0	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Low		Low		Low		Low		Low	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.30	Permanent	0.30	Permanent	0.30	Permanent	0.30	Permanent	0.30
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		1.3	1.00	1.3	1.00	1.3	1.00	1.3	1.00	1.3	1.00
V5	Forest Size	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		75	0.80	75	0.80	75	0.80	75	0.80	75	0.80
		0		0		0		0		0	
		0		0		0		0		0	
		23		23		23		23		23	
		2		2		2		2		2	
V7	Disturbance	Class		Class		Class		Class		Class	
		4	1.00	4	1.00	4	1.00	4	1.00	4	1.00
		Class		Class		Class		Class		Class	
		2		2		2		2		2	
	Type										
	Distance										
		HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00

Project: **Pine Island Mitigation Site w lakeshore impoundment_HIGH SLR**

Project Area: **1,966**

FWOP

	TY	15	TY	24	TY	34	TY	44	TY	52
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Variable		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0		0.1		0.1		0.1		0.1	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		0		0		0	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		1		0		0		0		0	
		Class		Class		Class		Class		Class	
		1	0.10	1	0.10	1	0.10	1	0.10	1	0.10
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		0		0		0		0		0	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		0.1		0.1		0.1		0.1		0.1	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0		0		0	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Low		Low		Low		Low		Low	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.30	Permanent	0.30	Permanent	0.30	Permanent	0.30	Permanent	0.30
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		1.5	1.00	1.7	0.91	1.9	0.82	2.1	0.73	2.4	0.60
V5	Forest Size	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		Forest / marsh	0.80	65	0.72	50	0.60	20	0.36	0	0.20
		Abandoned Ag		0		0		0		0	
		Pasture / Hay		0		0		0		0	
		Active Ag		33		48		78		98	
		Development		2		2		2		2	
		Disturbance									
V7	Type	Class		Class		Class		Class		Class	
		4	1.00	4	1.00	3	0.65	3	0.65	3	0.65
		Class		Class		Class		Class		Class	
		2		2		2		2		2	
V7	Distance										
		HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00	HSI =	0.00

Project: Pine Island Mitigation Site w lakeshore impoundment_HIGH SLR
FWOP

Project Area: 1,966

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	

V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Swamp 2.0

Project: Pine Island Mitigation Site w lakeshore impoundment_HIGH SLR

Project Area: 1,966

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	3	TY	4
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		0.1		0		0		33		35	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		0		0		3		14		12	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		2		30		32		30		30	
		Class		Class		Class		Class		Class	
		1	0.1	1	0.10	1	0.10	2	0.20	2	0.20
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		0		0.1		0.2		0.4		0.7	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		0.001		0.1		0.1		0.3		0.6	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0		0		0	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0	0	0.00	0	0.00	0	0.00	0	0.00
V3	Water Regime	Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low	
		Flooding Duration Permanent	0.3	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65	Flooding Duration Temporary	0.65
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
		1.3	1	1.3	1.00	1.3	1.00	1.3	1.00	1.3	1.00
V5	Forest Size	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	75	0.7962	75	0.80	75	0.80	75	0.80	75	0.80
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	0		0		0		0		0	
	Active Ag	23		23		23		23		23	
	Development	2		2		2		2		2	
V7	Disturbance Type Distance	Class		Class		Class		Class		Class	
		4	1	4	1.00	4	1.00	4	1.00	4	1.00
		Class		Class		Class		Class		Class	
		2		2		2		2		2	
		HSI =	0.00	HSI =	0.08	HSI =	0.10	HSI =	0.13	HSI =	0.15

Project: Pine Island Mitigation Site w lakeshore impoundment_HIGH SLR
FWP

Project Area: 1,966

Variable		TY	15	TY	24	TY	34	TY	44	TY	52
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		51		70		40		0		0	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		42		38		30		15		0	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		35		35		33		20		0	
		Class		Class		Class		Class		Class	
		6	1.00	6	1.00	3	0.40	1	0.10	1	0.10
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		3.2		5.1		5.4		0		0	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	
		12.2		27.1		15.1		0.1		0.1	
		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		0		0		0		0		0	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
		0	0.01	0	0.01	0	0.01	0	0.00	0	0.00
V3	Water Regime	Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low	
		Flooding Duration Seasonal	0.70	Flooding Duration Semi-Permanent	0.45	Flooding Duration Permanent	0.30	Flooding Duration Permanent	0.30	Flooding Duration Permanent	0.30

V4	Salinity	Salinity 1.5	1.00	Salinity 1.7	0.91	Salinity 1.9	0.82	Salinity 2.1	0.73	Salinity 2.4	0.60
		Class		Class		Class		Class		Class	
V5	Forest Size	5	UNUSED	5	1.00	5	1.00	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	75	0.80	65	0.72	50	0.60	20	0.36	0	0.20
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	0		0		0		0		0	
	Active Ag	23		33		48		78		98	
	Development	2		2		2		2		2	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	4	1.00	4	1.00	3	0.65	3	0.65	3	0.65
	Distance	Class		Class		Class		Class		Class	
		2		2		2					
		HSI =	0.33	HSI =	0.35	HSI =	0.25	HSI =	0.00	HSI =	0.00

Project: Pine Island Mitigation Site w lakeshore impoundment_HIGH SLR

Project Area: 1,966

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Stand Structure	% Cover		% Cover		% Cover		% Cover		% Cover	
		Overstory		Overstory		Overstory		Overstory		Overstory	
		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub		Scrub-shrub	
		Herbaceous		Herbaceous		Herbaceous		Herbaceous		Herbaceous	
		Class		Class		Class		Class		Class	
V2	Stand Maturity	Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh		Cypress dbh	
		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area		Cypress Basal Area	

		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh		Tupelo et al dbh	
		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area		Tupelo et al. Basal Area	
V3	Water Regime	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V4	Salinity	Salinity		Salinity		Salinity		Salinity		Salinity	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Project: Pine Island Mitigation Site w lakeshore impoundment_HIGH SLR

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	1966	0.00	0.00	
1	1966	0.00	0.00	0.00
2	1966	0.00	0.00	0.00
3	1966	0.00	0.00	0.00
4	1966	0.00	0.00	0.00
15	1966	0.00	0.00	0.00
24	1966	0.00	0.00	0.00
34	1966	0.00	0.00	0.00
44	1966	0.00	0.00	0.00
52	1966	0.00	0.00	0.00

Max TY=	52		Total	
			CHUs =	0.00
			AAHUs =	0.00

Future With Project			Total	Cummulative
TY	Acres	x HSI	HUs	HUs
0	1966	0.00	0.00	
1	1966	0.08	165.18	82.59
2	1966	0.10	190.84	178.01
3	1966	0.13	262.20	226.52
4	1966	0.15	294.62	278.41
15	1966	0.33	643.94	5162.08
24	1966	0.35	689.25	5999.33
34	1966	0.25	485.55	5873.99
44	1966	0.00	0.00	2427.76
52	1966	0.00	0.00	0.00
Max TY=	52		Total	
			CHUs =	20228.68
			AAHUs =	389.01

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future With Project AAHUs =	389.01
B. Future Without Project AAHUs =	0.00
Net Change (FWP - FWOP) =	389.01

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: Port Allen - Non-hydric soils

Acres: 89.3

AAHUs = 42.39

Condition: Future Without Project

Variable		TY	0	TY	1	TY	20	TY	50	TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED		
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0.00	0	0.00	0	0.00	0	0.00		
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		0		0		0	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None		None	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10		
		Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED		
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	10	0.21	10	0.21	10	0.21	10	0.21	10	0.21
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	0		0		0		0		0	
	Active Ag	54		54		54		54		54	
	Development	36		36		36		36		36	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	2	0.50	2	0.50	2	0.50	2	0.50		
	Distance	Class		Class		Class		Class		Class	
		2		2		2		2			
		HSI =		HSI =		HSI =		HSI =		HSI =	

Port Allen - Non-hydric soils
Project: FWOP

Acres: 89.3

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3		Understory %		Understory %		Understory %		Understory %		Understory %	

	Understory / Midstory	Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Port Allen - Non-
Project: hydric soils
FWOP

Acres: 89.3

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	

	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Port Allen - Non-
Project: hydric soils

Acres: 89.3

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	22	TY	52
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	5	1.00	5	1.00
V2	Maturity (input age or dbh, not both)	Age	0	Age	0.00	Age	0.00	Age	0.36	Age	1.00
		dbh		dbh		dbh		dbh		dbh	
		0		0		0		0		0	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		100		25		35	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0		0	UNUSED	0	UNUSED	60	0.88	30	1.00
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		Low		Low		Low		Low	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.1	Permanent	0.30	Permanent	0.30	Permanent	0.30	Permanent	0.30
V5	Forest Size	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	4	0.80	4	0.80
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	10	0.2116	10	0.21	10	0.21	10	0.21	10	0.21
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	0		0		0		0		0	
	Active Ag	54		54		54		54		54	
	Development	36		36		36		36		36	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	2	0.5	2	0.50	2	0.50	2	0.50	2	0.50
	Distance	2		2		2		2		2	
		HSI =		HSI =		HSI =	0.03	HSI =	0.54	HSI =	0.72

Port Allen - Non-
Project: hydric soils
FWP

Acres: 89.3

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
		Class		Class		Class		Class		Class	

V1	Tree Species Composition										
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance										
	Type	Class		Class		Class		Class	1.00	Class	1.00
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Port Allen - Non-
Project: hydric soils
FWP

Acres: 89.3

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										

	Abandoned Ag Pasture / Hay Active Ag Development									
V7	Disturbance	Class		Class		Class		Class		Class
	Type	Class		Class		Class		Class		Class
	Distance	Class		Class		Class		Class		Class
		HSI =		HSI =		HSI =		HSI =		HSI =

AAHU CALCULATION

Project: Port Allen - Non-
hydric soils

Future Without Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	89.3		0.00	
1	89.3		0.00	0.00
20	89.3		0.00	0.00
50	89.3		0.00	0.00
Max TY= 50			Total AAHUs =	0.00
			AAHUs =	0.00

Future With Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	89.3		0.00	
1	89.3		0.00	0.00
2	89.3	0.03	2.87	1.43
22	89.3	0.54	48.26	511.27
52	89.3	0.72	64.51	1691.58

Max TY=	52		Total AAHUs =	2204.28
			AAHUs =	42.39

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future Without Project AAHUs =	0.00
B. Future With Project AAHUs =	42.39
Net Change (FWP - FWOP) =	42.39

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: Rosedale - Non-hydric soils

Acres: 224.8

AAHUs = 112.60

Condition: Future Without Project

Variable		TY	0	TY	1	TY	20	TY	50	TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED		
V2	Maturity (input age or dbh, not both)	Age	0.00	Age	0.00	Age	0.00	Age	0.00	Age	
		0		0		0		0			
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		0		0		0	
		Midstory %	UNUSED	Midstory %	UNUSED	Midstory %	UNUSED	Midstory %	UNUSED	Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None		None	
		Flooding Duration	0.10	Flooding Duration	0.10	Flooding Duration	0.10	Flooding Duration	0.10	Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED		
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		2	0.21	2	0.21	2	0.21	2	0.21		
		0		0		0		0			
		0		0		0		0			
		94		94		94		94			
V7	Disturbance	Class		Class		Class		Class		Class	
		2	0.50	2	0.50	2	0.50	2	0.50		
		Class		Class		Class		Class		Class	
	Distance	2		2		2		2			
		HSI =		HSI =		HSI =		HSI =		HSI =	

Rosedale - Non-
Project: hydric soils
FWOP

Acres: 224.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory /	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	

	Midstory										
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance										
		HSI =		HSI =		HSI =		HSI =		HSI =	

Rosedale - Non-
Project: hydric soils
FWOP

Acres: 224.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	

HSI =		HSI =		HSI =		HSI =		HSI =	
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WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Rosedale - Non-
Project: hydric soils

Acres: 224.8

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	22	TY	52
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	5	1.00	5	1.00
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0	0	0.00	1	0.00	22	0.36	52	1.00
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	0		0		0		0		0	
		Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	0		0	UNUSED	0	UNUSED	60	0.88	30	1.00
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		Low		Low		Low		Low	
V5	Forest Size	Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.1	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45
		Class		Class		Class		Class		Class	
V6	Surrounding Land Use	1		1	UNUSED	1	UNUSED	4	0.80	4	0.80
		Values %		Values %		Values %		Values %		Values %	
		2	0.2084	2	0.21	2	0.21	2	0.21	2	0.21
V7	Disturbance	0		0		0		0		0	
		Pasture / Hay		0		0		0		0	
		Active Ag		94		94		94		94	
V7	Type	Development		4		4		4		4	
		Class		Class		Class		Class		Class	
		2	0.5	2	0.50	2	0.50	2	0.50	2	0.50
V7	Distance	Class		Class		Class		Class		Class	
		2		2		2		2		2	
		HSI =		HSI =		HSI =	0.04	HSI =	0.57	HSI =	0.76

Rosedale - Non-
Project: hydric soils
FWP

Acres: 224.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input	Age		Age		Age		Age		Age	

	age or dbh, not both)	dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh							100	1.00	100	1.00
	Abandoned Ag							0		0	
	Pasture / Hay							0		0	
	Active Ag Development							0		0	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type							3	1.00	3	1.00
	Distance	Class		Class		Class		Class		Class	
								3		3	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Rosedale - Non-
Project: hydric soils
FWP

Acres: 224.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	

Type		Class		Class		Class		Class		Class	
Distance											
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Rosedale - Non-

Project: hydric soils

Future Without Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	224.8		0.00	
1	224.8		0.00	0.00
20	224.8		0.00	0.00
50	224.8		0.00	0.00
Max TY= 50			Total AAHUs = 0.00	
			AAHUs = 0.00	

Future With Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	224.8		0.00	
1	224.8		0.00	0.00
2	224.8	0.04	7.97	3.99
22	224.8	0.57	128.11	1360.79
52	224.8	0.76	171.25	4490.29
Max TY= 52			Total AAHUs = 5855.06	

AAHUs = 112.60

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future Without Project AAHUs =	0.00
B. Future With Project AAHUs =	112.60
Net Change (FWP - FWOP) =	112.60

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: St James

Acres: 1246

AAHUs = 676.18

Condition: Future Without Project

Variable		TY	0	TY	1	TY	20	TY	52	TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED		
V2	Maturity (input age or dbh, not both)	Age	0.00	Age	0.00	Age	0.00	Age	0.00	Age	
		0		0		0		0			
		dbh		dbh		dbh		dbh		dbh	
		0		0		0		0			
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		0		0			
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED	0	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None			
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Temporary	0.50	Temporary	0.50	Temporary	0.50	Temporary	0.50		
V5	Forest Size	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED		
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		35	0.42	35	0.42	35	0.42	35	0.42		
	Forest / marsh	0		0		0		0			
	Abandoned Ag	2		2		2		2			
	Pasture / Hay	29		29		29		29			
	Active Ag	34		34		34		34			
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	2	1.00	2	1.00	2	1.00	2	1.00		
	Distance	Class		Class		Class		Class		Class	
		3		3		3		3			
HSI =				HSI =		HSI =		HSI =		HSI =	

0.1
0.1
0
0
0.5

Project: St James
FWOP

Acres: 1246

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3		Understory %		Understory %		Understory %		Understory %		Understory %	

	Understory / Midstory	Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
HSI =			HSI =			HSI =			HSI =		

Project: St James
FWOP

Acres: 1246

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	

Distance										
HSI	=		HSI	=		HSI	=		HSI	=

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: St James

Acres: 1246

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	22	TY	52
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	5	1.00	5	1.00
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0	0	0.00	1	0.00	21	0.33	51	1.00
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		100		25		35	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	0		0	UNUSED	0	UNUSED	60	0.88	30	1.00
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None		None	
V5	Forest Size	Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Temporary	0.5	Seasonal	0.40	Seasonal	0.40	Seasonal	0.40	Seasonal	0.40
		Class		Class		Class		Class		Class	
V6	Surrounding Land Use	1		1	UNUSED	1	UNUSED	5	1.00	5	1.00
		Values %		Values %		Values %		Values %		Values %	
		35	0.4194	35	0.42	35	0.42	35	0.42	35	0.42
V7	Disturbance	0		0		0		0		0	
		2	1	2	1.00	2	1.00	2	1.00	2	1.00
		Class		Class		Class		Class		Class	
	Distance	3		3		3		3		3	
		HSI	=	HSI	=	HSI	=	HSI	=	HSI	=
						0.04		0.61		0.84	

Project: St James
FWP

Acres: 1246

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		Age		Age		Age		Age		Age	

V2	Maturity (input age or dbh, not both)	dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh							100	1.00	100	1.00
	Abandoned Ag							0		0	
	Pasture / Hay							0		0	
	Active Ag							0		0	
	Development							0		0	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type							3	1.00	3	1.00
	Distance	Class		Class		Class		Class		Class	
								3		3	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Project: St James
FWP

Acres: 1246

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										

V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

Project: St James

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	1246		0.00	
1	1246		0.00	0.00
20	1246		0.00	0.00
52	1246		0.00	0.00
Max TY= 52			Total AAHUs =	0.00
			AAHUs =	0.00

Future With Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	1246		0.00	
1	1246		0.00	0.00
2	1246	0.04	51.06	25.53
22	1246	0.61	760.63	8116.93
52	1246	0.84	1040.64	27019.06

Max TY=	52		Total	
			AAHUs =	35161.52
			AAHUs =	676.18

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future Without Project AAHUs =	0.00
B. Future With Project AAHUs =	676.18
Net Change (FWP - FWOP) =	676.18

WETLAND VALUE ASSESSMENT COMMUNITY MODEL
Bottomland Hardwoods 1.2

Project: SAINT JOHN (model version: 2018-12-06 CW BLH WVA v1.2) Acres: 94.7 AAHUs = 42.09

Condition: Future Without Project

Variable		TY	0	TY	1	TY	10	TY	20	TY	50
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		0		0		0	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None		None	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10
V5	Forest Size	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		1	0.07	1	0.07	1	0.07	1	0.07	1	0.07
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development	0		0		0		0		0	
		4		4		4		4		4	
		19		19		19		19		19	
		76		76		76		76		76	
V7	Disturbance Type	Class		Class		Class		Class		Class	
		1	0.26	1	0.26	1	0.26	1	0.26	1	0.26
	Distance	Class		Class		Class		Class		Class	
		2		2		2		2		2	
		HSI =		HSI =		HSI =		HSI =		HSI =	

SAINT JOHN
(model version:
2018-12-06 CW
Project: BLH WVA v1.2)
FWOP Acres: 94.7

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		Age		Age		Age		Age		Age	

V2	Maturity (input age or dbh, not both)	dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

SAINT JOHN
(model version:
2018-12-06 CW

Project: BLH WVA v1.2)
FWOP

Acres: 94.7

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
	Surrounding	Values %		Values %		Values %		Values %		Values %	

V6	Land Use										
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance										
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

SAINT JOHN
(model version:
2018-12-06 CW
Project: BLH WVA v1.2)

Acres: 94.7

Condition: Future With Project

Variable		TY	0	TY	1	TY	20	TY	50	TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	5	1.00	5	1.00		
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0	1	0.00	20	0.30	50	1.00		
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		100		25		35			
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0		0	UNUSED	60	0.88	30	1.00		
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None			
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.1	Temporary	0.50	Temporary	0.50	Temporary	0.50		
V5	Forest Size	Class		Class		Class		Class		Class	
		1		1	UNUSED	3	0.60	3	0.60		
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh	1	0.0716	1	0.07	1	0.07	1	0.07		
	Abandoned Ag	0		0		0		0			
	Pasture / Hay	4		4		4		4			
	Active Ag	19		19		19		19			
	Development	76		76		76		76			
V7	Disturbance	Class		Class		Class		Class		Class	

	Type	1	0.26	1	0.26	1	0.26	1	0.26		
	Distance	Class		Class		Class		Class		Class	
		2		2		2		2			
		HSI =		HSI =	0.03	HSI =	0.48	HSI =	0.68	HSI =	

SAINT JOHN
(model version:
2018-12-06 CW
Project: BLH WVA v1.2)
FWP

Acres: 94.7

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh							100	1.00	100	1.00
	Abandoned Ag							0		0	
	Pasture / Hay							0		0	
	Active Ag							0		0	
	Development							0		0	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type							3	1.00	3	1.00
	Distance	Class		Class		Class		Class		Class	
								3		3	
		HSI =		HSI =		HSI =		HSI =		HSI =	

SAINT JOHN
(model version:
2018-12-06 CW
Project: BLH WVA v1.2)
FWP

Acres: 94.7

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
		Class		Class		Class		Class		Class	

V1	Tree Species Composition										
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
V7	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type										
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

AAHU CALCULATION

SAINT JOHN
(model version:
2018-12-06 CW
Project: BLH WVA v1.2)

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	94.7		0.00	
1	94.7		0.00	0.00
10	94.7		0.00	0.00
20	94.7		0.00	0.00
50	94.7		0.00	0.00

Max TY=	50		Total AAHUs = 0.00 AAHUs = 0.00	

Future With Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	94.7		0.00	
1	94.7	0.03	2.78	1.39
20	94.7	0.48	45.59	459.56
50	94.7	0.68	63.99	1643.70
Max TY=	50		Total AAHUs = 2104.66 AAHUs = 42.09	

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future Without Project AAHUs =	0.00
B. Future With Project AAHUs =	42.09
Net Change (FWP - FWOP) =	42.09

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: Sunset Ridge

Acres: 324

AAHUs = 167.98

Condition: Future Without Project

Variable		TY	0	TY	1	TY	2	TY	20	TY	50
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		100		100		100		100		100	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED
		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None		None	
V5	Forest Size	Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10	Permanent	0.10
		Class		Class		Class		Class		Class	
V6	Surrounding Land Use	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
		Values %		Values %		Values %		Values %		Values %	
		84	0.89	84	0.89	84	0.89	92	0.92	92	0.92
		Forest / marsh		8		8		0		0	
		Abandoned Ag		0		0		0		0	
		Pasture / Hay		0		0		0		0	
V7	Disturbance	Active Ag		8		8		8		8	
		Development		8		8		8		8	
		Class		Class		Class		Class		Class	
V8	Type	2	0.50	2	0.50	2	0.50	2	0.50	2	0.50
		Class		Class		Class		Class		Class	
		Distance		2		2		2		2	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Project: Sunset Ridge
FWOP

Acres: 324

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	

V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development									
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
HSI =				HSI =		HSI =		HSI =		HSI =	

Project: Sunset Ridge
FWOP

Acres: 324

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development									
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
HSI =				HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: Sunset Ridge

Acres: 324

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	20	TY	50
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	5	1.00	5	1.00
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0	0	0.00	1	0.00	22	0.36	52	1.00
		dbh		dbh		dbh		dbh		dbh	
		0		0		0		0		0	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		100		0		100		25		35	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0		0	UNUSED	0	UNUSED	65	0.85	30	1.00
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		None		None		None		None		None	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Permanent	0.1	Semi-Permanent	0.25	Semi-Permanent	0.25	Semi-Permanent	0.25	Semi-Permanent	0.25
V5	Forest Size	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	4	0.80	4	0.80
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		84	0.8888	84	0.89	84	0.89	92	0.92	92	0.92
	Forest / marsh	8		8		8		0		0	
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	0		0		0		0		0	
	Active Ag	0		0		0		0		0	
	Development	8		8		8		8		8	
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	2	0.5	2	0.50	2	0.50	2	0.50	2	0.50
	Distance	Class		Class		Class		Class		Class	
		2		2		2		2		2	
		HSI =		HSI =		HSI =	0.04	HSI =	0.58	HSI =	0.78

Project: Sunset Ridge

Acres: 324

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	

V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type										
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Project: Sunset Ridge
FWP

Acres: 324

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

Project: Sunset Ridge

Future Without Project		x HSI	Total HUs	Cummulative HUs
TY	Acres			
0	324		0.00	
1	324		0.00	0.00
2	324		0.00	0.00
20	324		0.00	0.00
50	324		0.00	0.00
Max TY= 50			Total AAHUs =	0.00
			AAHUs =	0.00

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future Without Project AAHUs =	0.00
B. Future With Project AAHUs =	167.98
Net Change (FWP - FWOP) =	167.98

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

Project: TPSB - Non-hydric soils

Acres: 483.8

AAHUs = 248.32

Condition: Future Without Project

Variable		TY	0	TY	1	TY	2	TY	20	TY	52
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0.00	0	0.00	0	0.00	0	0.00	0	0.00
		dbh		dbh		dbh		dbh		dbh	
		0		0		0		0		0	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		0		0		0	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED	0	UNUSED
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Low		Low		Low		Low		Low	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
		Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45	Semi-Permanent	0.45
V5	Forest Size	Class		Class		Class		Class		Class	
		1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED	1	UNUSED
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		16	0.29	16	0.29	16	0.29	16	0.29	16	0.29
	Forest / marsh	0		0		0		0		0	
	Abandoned Ag	0		0		0		0		0	
	Pasture / Hay	66		66		66		66		66	
	Active Ag	18		18		18		18		18	
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	3	0.41	3	0.41	3	0.41	3	0.41	3	0.41
	Distance	Class		Class		Class		Class		Class	
		1		1		1		1		1	
		HSI =		HSI =		HSI =		HSI =		HSI =	

TPSB - Non-

Project: hydric soils

Acres: 483.8

FWOP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3		Understory %		Understory %		Understory %		Understory %		Understory %	

	Understory / Midstory	Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
V7	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type	Class		Class		Class		Class		Class	
	Distance										
		HSI =		HSI =		HSI =		HSI =		HSI =	

TPSB - Non-
Project: hydric soils
FWOP

Acres: 483.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
V7	Pasture / Hay										
	Active Ag										
	Development										
V7	Disturbance	Class		Class		Class		Class		Class	
	Type										

	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

WETLAND VALUE ASSESSMENT COMMUNITY MODEL

Bottomland Hardwoods 1.2

TPSB - Non-
Project: hydric soils

Acres: 483.8

Condition: Future With Project

Variable		TY	0	TY	1	TY	2	TY	22	TY	52
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	5	1.00	5	1.00
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		0	0	0	0.00	1	0.00	22	0.36	52	1.00
		dbh		dbh		dbh		dbh		dbh	
		0		0		0		0		0	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		0		0		100		25		35	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
		0		0	UNUSED	0	UNUSED	60	0.88	30	1.00
V4	Hydrology	Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low		Flow/Exchange Low	
		Flooding Duration Semi-Permanent	0.45	Flooding Duration Semi-Permanent	0.45	Flooding Duration Semi-Permanent	0.45	Flooding Duration Semi-Permanent	0.45	Flooding Duration Semi-Permanent	0.45
V5	Forest Size	Class		Class		Class		Class		Class	
		1		1	UNUSED	1	UNUSED	5	1.00	5	1.00
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
		16	0.2938	16	0.29	16	0.29	16	0.29	16	0.29
		0		0		0		0		0	
		0		0		0		0		0	
		66		66		66		66		66	
		18		18		18		18		18	
V7	Disturbance Type	Class		Class		Class		Class		Class	
		3	0.41	3	0.41	3	0.41	3	0.41	3	0.41
		Class		Class		Class		Class		Class	
	Distance	1		1		1		1		1	
		HSI =		HSI =		HSI =	0.04	HSI =	0.58	HSI =	0.78

TPSB - Non-
Project: hydric soils
FWP

Acres: 483.8

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
		Class		Class		Class		Class		Class	

V1	Tree Species Composition										
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										
	Abandoned Ag										
	Pasture / Hay										
	Active Ag Development										
V7	Disturbance										
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

TPSB - Non-
Project: hydric soils

Acres: 483.8

FWP

Variable		TY		TY		TY		TY		TY	
		Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI	Class/Value	SI
V1	Tree Species Composition	Class		Class		Class		Class		Class	
V2	Maturity (input age or dbh, not both)	Age		Age		Age		Age		Age	
		dbh		dbh		dbh		dbh		dbh	
V3	Understory / Midstory	Understory %		Understory %		Understory %		Understory %		Understory %	
		Midstory %		Midstory %		Midstory %		Midstory %		Midstory %	
V4	Hydrology	Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange		Flow/Exchange	
		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration		Flooding Duration	
V5	Forest Size	Class		Class		Class		Class		Class	
V6	Surrounding Land Use	Values %		Values %		Values %		Values %		Values %	
	Forest / marsh										

	Abandoned Ag Pasture / Hay Active Ag Development										
V7	Disturbance										
	Type	Class		Class		Class		Class		Class	
	Distance	Class		Class		Class		Class		Class	
		HSI =		HSI =		HSI =		HSI =		HSI =	

TPSB - Non-

Future Without Project			Total HUs	Cummulative HUs
TY	Acre	x HSI		
0	483.8		0.00	
1	483.8		0.00	0.00
2	483.8		0.00	0.00
20	483.8		0.00	0.00
52	483.8		0.00	0.00
Max TY= 52			Total AAHUs =	0.00
			AAHUs =	0.00

Future With Project			Total HUs	Cummulative HUs
TY	Acres	x HSI		
0	483.8		0.00	
1	483.8		0.00	0.00
2	483.8	0.04	17.47	8.74
22	483.8	0.58	282.55	3000.23
52	483.8	0.78	377.70	9903.82

Max TY=	52		Total AAHUs = 12912.79 AAHUs = 248.32	

NET CHANGE IN AAHUs DUE TO PROJECT	
A. Future Without Project AAHUs =	0.00
B. Future With Project AAHUs =	248.32
Net Change (FWP - FWOP) =	248.32