

APPENDIX B2

Second Annual Monitoring Vegetation Data
Enhanced Native Areas
2006

**Manatee 1: Native Areas
Transect 2
Orientation 120°**

Date
11/10/2006

Water Depth
0-3"

Personnel
LS/MJF

Scientific Name	Common Name	% Ground	% Midstory	% Canopy
Bare/Open		23	47	65
<i>Blechnum serrulatum</i>	Swamp fern	15		
<i>Cephalanthus occidentalis</i>	Buttonbush		3	
<i>Eupatorium capillifolium</i>	Dog fennel	1		
<i>Ilex cassine</i>	Dahoon holly		6	11
<i>Itea virginica</i>	Virginia-willow		1	
<i>Ludwigia peruviana</i>	Primrosewillow	7	10	
<i>Lyonia lucida</i>	Fetterbush		2	
<i>Magnolia virginiana</i>	Sweetbay		2	8
<i>Myrica cerifera</i>	Wax myrtle	1	9	
<i>Nyssa sylvatica</i>	Blackgum			7
<i>Osmunda cinnamomea</i>	Cinnamon fern	12		
<i>Persea palustris</i>	Swamp bay		7	1
<i>Quercus laurifolia</i>	Laurel oak		4	1
<i>Quercus virginiana</i>	Live oak			3
<i>Sabal palmetto</i>	Cabbage palm		1	2
<i>Salix caroliniana</i>	Carolina willow		8	2
<i>Serenoa repens</i>	Saw palmetto	3		
<i>Thelypteris interrupta</i>	Hottentot fern	25		
<i>Vitis rotundifolia</i>	Muscadine grape	2		
<i>Woodwardia areolata</i>	Netted chain fern	4		
<i>Woodwardia virginica</i>	Virginia chain fern	7		
Total vegetation		77	53	35
Percent nuisance/exotic		1	0	0

**Manatee 1: Native Areas
Transect 4
Orientation 220°**

Date
12/1/2006

Water Depth
12-24"

Personnel
ER

Scientific Name	Common Name	% Ground	% Midstory	% Canopy
Bare/Open		57	100	100
<i>Lemna</i> sp.	Duckweed	30		
<i>Polygonum punctatum</i>	Dotted smartweed	8		
<i>Pontederia cordata</i>	Pickerelweed	3		
<i>Salvinia minima</i>	Water fern	2		
Total vegetation		43	0	0
Percent nuisance/exotic		2	0	0

**Manatee 1: Native Areas
Transect 5
Orientation 240°**

Date
11/10/2006

Water Depth
Dry

Personnel
MJF/LS

Scientific Name	Common Name	% Ground	% Midstory	% Canopy
Bare/Open		32	78	48
<i>Alternanthera philoxeroides</i>	Alligator weed	1		
<i>Ampelopsis arborea</i>	Peppervine	1		
<i>Andropogon glomeratus</i>	Bushy bluestem	4		
<i>Baccharis halimifolia</i>	Groundsel tree	1	3	
<i>Bidens alba</i>	Common beggarticks	6		
<i>Callicarpa americana</i>	American beautyberry	4		
<i>Centella asiatica</i>	Asiatic pennywort	2		
<i>Commelina diffusa</i>	Common dayflower	2		
<i>Eupatorium capillifolium</i>	Dog fennel	2		
<i>Hydrocotyle umbellata</i>	Marshpennywort	2		
<i>Hypericum</i> sp.	St. John's wort	2		
<i>Myrica cerifera</i>	Wax myrtle		2	
<i>Parthenocissus quinquefolia</i>	Virginia creeper	1		
<i>Persea palustris</i>	Swamp bay		1	
<i>Phyla nodiflora</i>	Frogfruit	3		
<i>Quercus laurifolia</i>	Laurel oak		4	
<i>Quercus virginiana</i>	Live oak		1	38
<i>Sabal palmetto</i>	Cabbage palm	14	11	14

Manatee 1: Native Areas, Continued

Transect 5
Orientation 240°

Date
11/10/2006

Water Depth
Dry

Personnel
MJF/LS

Scientific Name	Common Name	% Ground	% Midstory	% Canopy
Bare/Open		32	78	48
<i>Schinus terebinthifolius</i>	Brazilian pepper	2		
<i>Serenoa repens</i>	Saw palmetto	13		
<i>Setaria geniculata</i>	Knotroot foxtail	3		
<i>Smilax</i> sp.	Greenbrier	3		
<i>Urena lobata</i>	Caesarweed	1		
<i>Urochloa mutica</i>	Paragrass	4		
<i>Vitis rotundifolia</i>	Muscadine grape	2		
Total vegetation		65	22	52
Percent nuisance/exotic		10	0	0

Manatee 1: Native Areas

Transect 8
Orientation 275°

Date
11/16/2006

Water Depth
0-12"

Personnel
PT/ER

Scientific Name	Common Name	% Ground	% Midstory	% Canopy
Bare/Open		19	78	79
Dead vegetation		14		
<i>Canna flaccida</i>	Golden canna	2		
<i>Cephalanthus occidentalis</i>	Buttonbush		1	
<i>Cladium jamaicense</i>	Sawgrass	1		
<i>Commelina diffusa</i>	Common dayflower	1		
<i>Eupatorium capillifolium</i>	Dog fennel	1		
<i>Hydrocotyle ranunculoides</i>	Floating marshpennywort	1		
<i>Hydrocotyle umbellata</i>	Marshpennywort	1		
<i>Lemna obscura</i>	Little duckweed	23		
<i>Pistia stratiotes</i>	Water-lettuce	6		
<i>Polygonum punctatum</i>	Dotted smartweed	16		
<i>Pontederia cordata</i>	Pickernelweed	5		
<i>Sabal palmetto</i>	Cabbage palm		1	2
<i>Sacciolepis striata</i>	American cupscale	2		
<i>Salix caroliniana</i>	Carolina willow	1	20	19
<i>Spirodela polyrhiza</i>	Big duckweed	1		
<i>Thalia geniculata</i>	Fireflag	2		
Unknown forb		2		
<i>Wolffiella oblonga</i>	Saber mudmidget	2		
Total vegetation		67	22	21
Percent nuisance/exotic		6	0	0

Manatee 1: Native Areas

Transect 9
Orientation 320°

Date
11/16/2006

Water Depth
Dry

Personnel
EVR/PT

Scientific Name	Common Name	% Ground	% Midstory	% Canopy
Bare/Open		30	48	30
<i>Ampelopsis arborea</i>	Peppervine	1		
<i>Callicarpa americana</i>	Beautyberry	2	1	
<i>Commelina diffusa</i>	Common dayflower	1		
<i>Parthenocissus quinquefolia</i>	Virginia creeper	2		
<i>Psychotria ligustrifolia</i>	Bahama wild coffee	5		
<i>Quercus virginiana</i>	Live oak	5		58
<i>Sabal palmetto</i>	Cabbage palm	3	28	12
<i>Serenoa repens</i>	Saw palmetto	35	13	
<i>Smilax</i> sp.	Greenbrier	1		
<i>Toxicodendron radicans</i>	Poison ivy	4		
Unknown forb		4		
<i>Urena lobata</i>	Caesarweed	6		
<i>Vitis rotundifolia</i>	Muscadine grape	1		
Total vegetation		70	42	70
Percent nuisance/exotic		6	0	0

**Manatee 1: Native Areas
Transect 10
Orientation 270°**

Date
11/16/2006

Water Depth
0-14" average 4"

Personnel
PT/ER

Scientific Name	Common Name	% Ground	% Midstory	% Canopy
Bare/Open		43	68	77
<i>Commelina diffusa</i>	Common dayflower	6		
<i>Cynodon dactylon</i>	Bermuda grass	2		
<i>Juncus</i> sp.	Rush	3		
<i>Lemna obscura</i>	Little duckweed	12		
<i>Lythrum alatum</i>	Winged loosestrife	1		
<i>Panicum hemitomon</i>	Maidencane	4		
<i>Phyla nodiflora</i>	Frogfruit	4		
<i>Pistia stratiotes</i>	Water-lettuce	2		
<i>Polygonum punctatum</i>	Dotted smartweed	4		
<i>Pontederia cordata</i>	Pickerelweed	5		
<i>Salix caroliniana</i>	Carolina willow		32	23
<i>Spartina bakeri</i>	Sand cordgrass	3		
<i>Spiranthes polyantha</i>	Florida Keys ladiestresses	5		
<i>Thelypteris</i> sp.	Shield fern	4		
Unknown forb		1		
Unknown grass		1		
Total vegetation		57	32	23
Percent nuisance/exotic		4	0	0

**Manatee 1: Native Areas
Transect 11
Orientation 240°**

Date
11/16/2006

Water Depth
12-18"

Personnel
PT/ER

Common Name	Common Name	% Ground	% Midstory	% Canopy
Bare/Open		6	79	83
Dead vegetation		26		
<i>Alternanthera philoxeroides</i>	Alligator weed	1		
<i>Ampelopsis arborea</i>	Peppervine	1		
<i>Commelina diffusa</i>	Common dayflower	10		
<i>Cynodon dactylon</i>	Bermuda grass	13		
<i>Cyperus</i> sp.	Flat sedge	3		
<i>Cyperus surinamensis</i>	Tropical flatsedge	1		
<i>Ipomoea</i> sp.	Morning glory	2		
<i>Juncus effusus</i>	Soft rush	1		
<i>Lythrum alatum</i>	Winged loosestrife	1		
<i>Phyla nodiflora</i>	Frogfruit	6		
<i>Polygonum densiflorum</i>	Denseflower knotweed	3		
<i>Polygonum punctatum</i>	Dotted smartweed	15		
<i>Pontederia cordata</i>	Pickerelweed	5		
<i>Rumex</i> sp.	Dock	3		
<i>Sabal palmetto</i>	Cabbage palm		1	1
<i>Salix caroliniana</i>	Carolina willow		20	16
<i>Spartina bakeri</i>	Sand cordgrass	3		
Total vegetation		68	21	17
Percent nuisance/exotic		13	0	0

Manatee 1: Native Areas
 Transect 12
 Orientation 70°

Date
 11/10/2006

Water Depth
 saturated (0)-0.5

Personnel
 MJF/LS

Scientific Name	Common Name	% Ground	% Midstory	% Canopy
Bare/Open		8	38	34
<i>Acer rubrum</i>	Red maple	1	7	19
<i>Blechnum serrulatum</i>	Swamp fern	35	3	
<i>Cephalanthus occidentalis</i>	Buttonbush		2	
<i>Commelina diffusa</i>	Common dayflower	3		
<i>Cyperus haspan</i>	Haspan flatsedge	1		
<i>Eupatorium capillifolium</i>	Dog fennel	1		
<i>Thelypteris interrupta</i>	Hottentot fern	2		
<i>Ilex cassine</i>	Dahoon holly	2	19	23
<i>Itea virginica</i>	Virginia-willow		6	
<i>Ludwigia peruviana</i>	Primrosewillow	4	6	
<i>Myrica cerifera</i>	Wax myrtle		8	
<i>Nyssa sylvatica</i>	Blackgum		4	20
<i>Osmunda cinnamomea</i>	Cinnamon fern	29		
<i>Osmunda regalis</i>	Royal fern	4		
<i>Persea palustris</i>	Swamp bay		3	
<i>Pontederia cordata</i>	Pickerelweed	1		
<i>Quercus laurifolia</i>	Laurel oak		4	4
<i>Toxicodendron radicans</i>	Poison ivy	2		
<i>Vitis rotundifolia</i>	Muscadine grape	3		
<i>Woodwardia areolata</i>	Netted chain fern	1		
<i>Woodwardia virginica</i>	Virginia chain fern	3		
Total vegetation		92	62	66
Percent nuisance/exotic		5	6	0