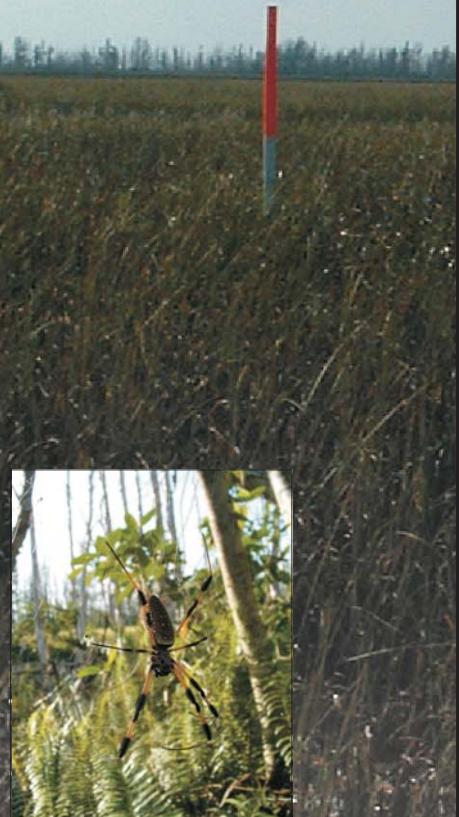


ENVIRONMENTAL MONITORING REPORT

PENNSUCO MITIGATION PROJECT

**Miami-Dade County, Sections 6, 16, 30, 32
Townships 52-South, 53-South, Range 39-East**

Project: C-13604



**Monitoring Performed:
July 11, 2009**

**Submitted:
August 2009**

KCI Technologies, Inc.

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1.0 Introduction

KCI Technologies, Inc. (KCI) has conducted the annual vegetative monitoring and data collection assessment for the Pennsuco Monitoring Mitigation Project, C-13604, administered by the South Florida Water Management District (SFWMD). The monitoring requires qualitative and quantitative assessments to document the success of the vegetative and hydrologic restoration. Restoration success can be gauged by reduction of exotic species and the recruitment of target native species, saw grass in particular.

2.0 Purpose

The primary purpose of the monitoring program is to identify and describe the elements of the natural system, thus enabling the SFWMD to evaluate the success of exotic plant control activities. The vegetative success criteria outlined in the Draft Pennsuco Memorandum of Agreement (MOA) requires that the percent cover of exotic invasive species is no greater than five percent, the percent cover of open water and obligate and facultative wetland woody shrub species is no greater than 20 percent, and the percent cover of native plant herbaceous obligate and facultative wetland species is no less than 80 percent.

3.0 Site Location

The Pennsuco Mitigation Area is composed of all or part of 11 blocks in Cell 26 of the East Coast Buffer and occupies approximately 13,000 acres in Miami-Dade County (Figure 1). The site is bordered on the west and north by Krome Avenue, to the south by the Tamiami Trail (US 41) and to the east by the Dade-Broward Levee. The SFWMD had been conducting invasive species eradication in these areas as a component of its restoration plan. The specific areas being monitored include Section 30, Township 52 South, Range 39 East; Section 5, Township 53 South, Range 39 East; Section 18, Township 53 South, Range 39 East; and Section 31, Township 53 South, Range 39 East.

4.0 Methodology

The monitoring was conducted along four one-mile transects as identified in Figure 1 of the SFWMD Statement of Work or as adjusted by SFWMD staff at the field visit prior to the initiation of work. Three of the four transects are located adjacent to Krome Avenue (A, C, DR) and were directly accessible. The remaining transect (B) is located one mile east of Krome Avenue (Figure 2, Table 1). Global Positioning System (GPS) was used to identify the two end points of each transect. The points were permanently marked by installing a 10-foot length of 3-inch PVC pipe, painted fluorescent orange, at each location. GPS and/or compass bearings were then used to identify data collection stations along each transect.

Table 1 Transect End Points

Transect	Latitude	Longitude
Begin "A"	25° 53' 12.76"	80° 29' 03.33"
End "A"	25° 53' 12.69"	80° 28' 04.91"
Begin "B"	25° 51' 20.39"	80° 28' 01.70"
End "B"	25° 51' 19.15"	80° 27' 03.30"
Begin "C"	25° 49' 48.07"	80° 28' 55.38"
End "C"	25° 49' 48.00"	80° 27' 57.00"
Begin "DR"	25° 47' 20.64"	80° 28' 46.31"
End "DR"	25° 47' 45.57"	80° 28' 09.88"

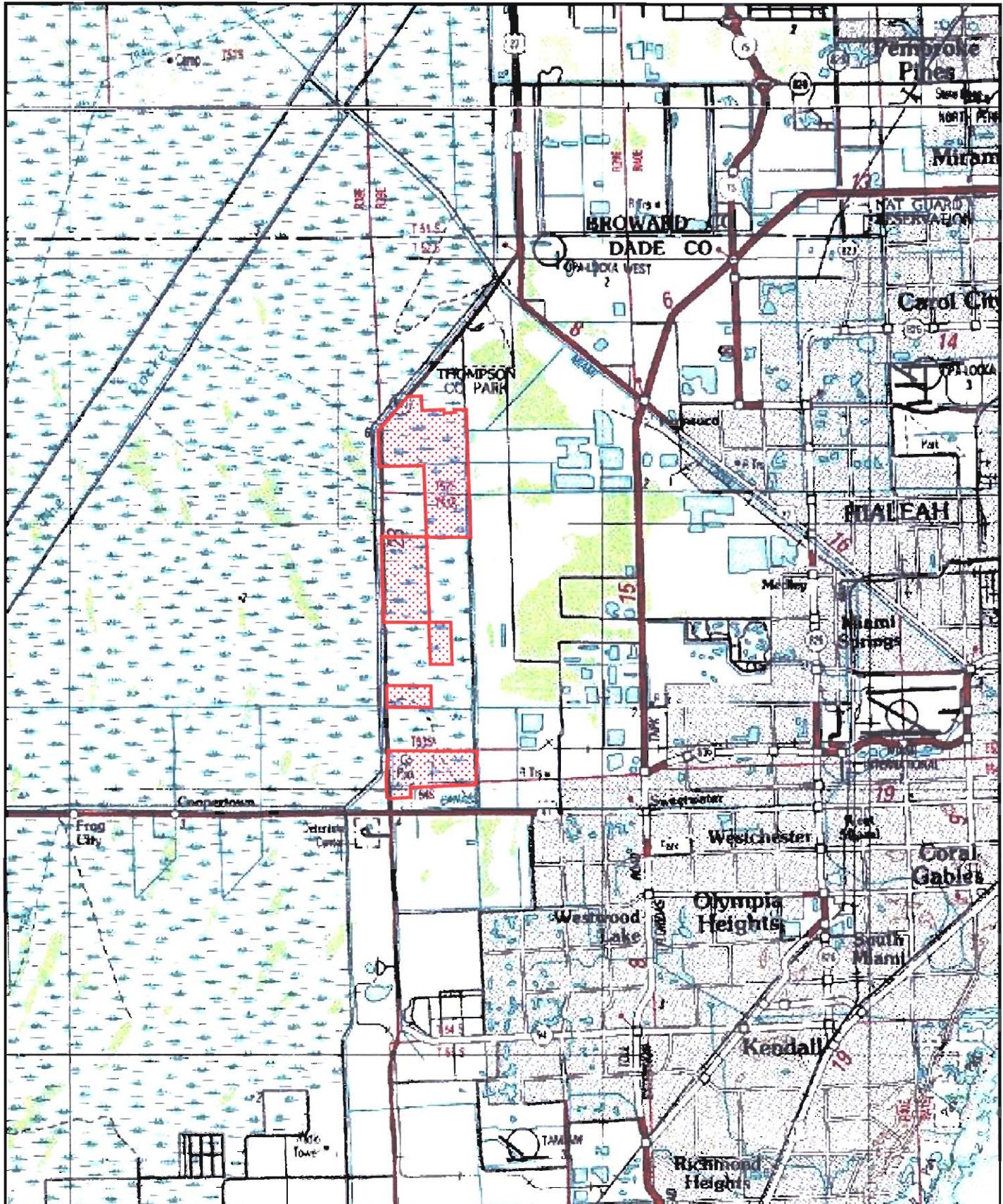


Figure 1. Location Map

Restoration Area

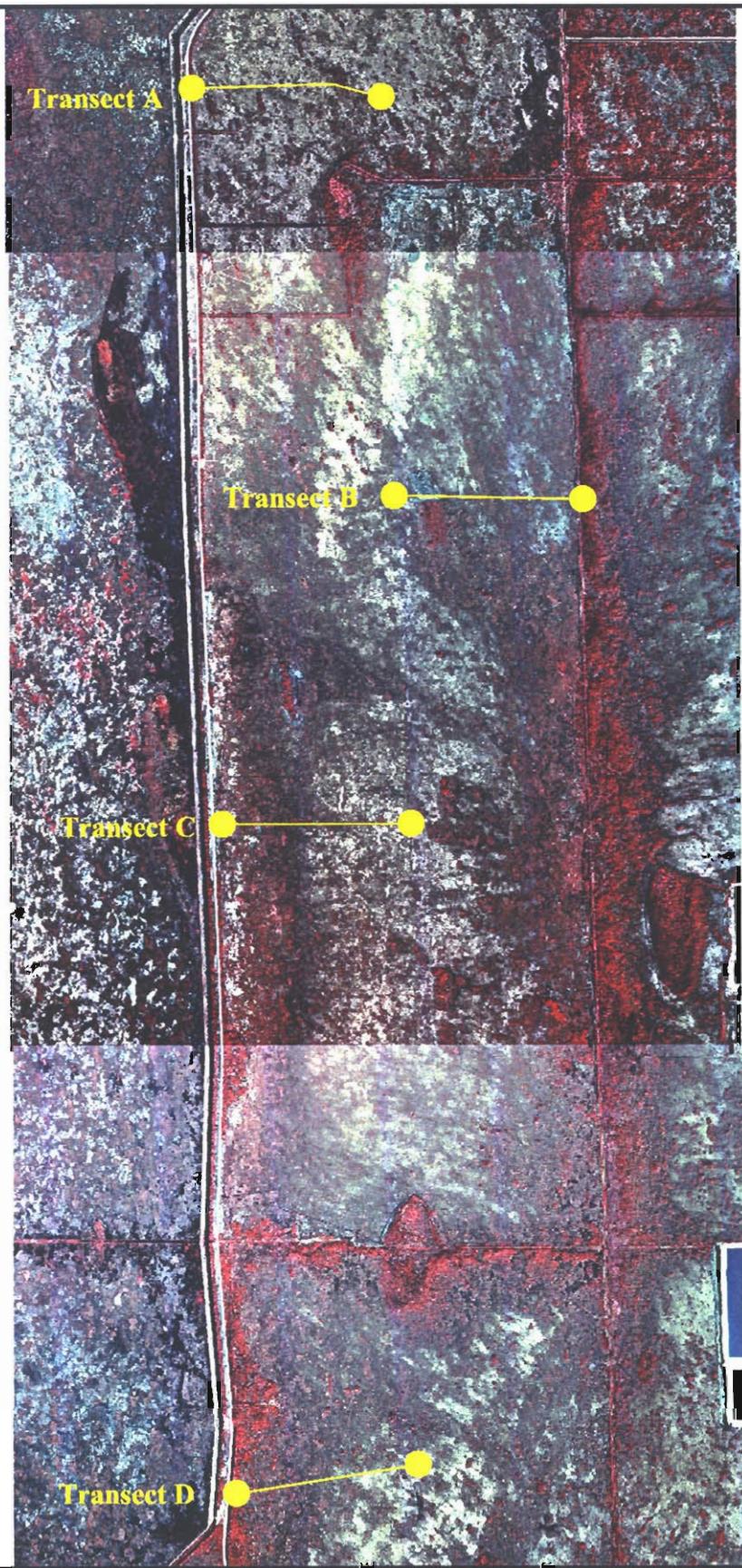


Figure 2. Transect Locations

A total of 30 data collection stations, each measuring 4 square meters, were established at approximately equally spaced intervals of 176 feet along each transect. Collection stations at the end points of each transect were established three meters from the point marker. At each data collection point, the center of a four-meter square grid was marked by placing a 5-foot length of white ¾-inch PVC pipe in the substrate. Where feasible, a 4-meter square portable PVC frame with 4 individual 1-meter cells was utilized to estimate percent coverage; otherwise, visual assessments were made by assessing the area 1 meter in each direction from the central point of the collection station. Percent coverage was estimated in each of four layers, described as follows:

1. **Submerged Aquatics** – Herbaceous plants occurring below water surface.
2. **Herbaceous** – Non-woody plants occurring at or above the water surface and woody plants less than one meter in height
3. **Sapling/Vine** – Woody plants one to three meters in height and woody vines.
4. **Overstory** – Woody plants greater than three meters in height.

Coverage was documented at each of the 120 collection stations as a percent coverage with the total percent not exceeding 100 percent/layer. All species found were documented by scientific and common name and entered on field forms. Water level and/or soil saturation, observed aquatic macrofauna, wildlife utilization, and/or indicators of wildlife (i.e. tracks, scat, etc.) were recorded at data collection stations 7, 14, 21, and 28 of each transect. Observations also focused on whether saw grass (*Cladium jamaicense*) and punk trees (*Melaleuca quinquenervia*) were either alive or dead due to eradication efforts. This distinction was not made for other vegetative types because of the significantly lower percentage of other species present.

Photographs of each collection station were taken for reference from an elevated position. Panoramic photos were taken from each transect end point to qualitatively document the existing vegetation along the transect. Each panoramic photo included the end point of each transect with the 3-inch PVC pipe shown for reference.

Data for each transect were organized into spreadsheets and correlated with photographic references for each collection station. Summary percent coverages by species were calculated for each layer by dividing the area occupied by each individual species in the transect by the total area surveyed. This procedure is outlined in the following:

CT = Percentage of coverage by species per collection station

CA = Total area sampled per collection point (4 square meters)

PC = Total area covered by species per collection station (CT*CA)

TA = Total area sampled in transect (30 collection points x 4 square meters = 120 square meters)

TC = Total coverage by species per transect

TC = PC/TA

5.0 Results

The collected data were incorporated into individual spreadsheets for presentation. A narrative describing each transect followed by summary data and individual data is presented in the following section.

MONITORING DATA
July 11, 2009

TRANSECT A

Narrative

Transect A is located in Section 30, Township 52, Range 39 (Cell 26 – Pennsuco Exotic Treatment Area). It starts on the levee at Krome Avenue with Point A1 (GPS Coordinates Latitude 25° 53' 12.76", Longitude 80° 29' 03.33") and continues east one mile to Point A30 (GPS coordinates Latitude 25° 53' 12.69", Longitude 80° 28' 04.91"), which is west of the Dade-Broward Levee (Figure 3). Two community types were identified for Transect A. Point A1 represents an upland levee community dominated by shield fern (*Thelypteris kunthii*) and bushy bluestem (*Andropogon glomeratus*). Points A2 through A30 represent a wet prairie community type dominated by saw grass (*Cladium jamaicense*). Previous control efforts focused primarily on punk tree (*Melaleuca quinquenervia*) eradication and consisted of herbicidal treatment and a physical removal program followed by a controlled burn.

Observations from July 11, 2009 monitoring

The transect was relatively dry with saturated soil conditions and only 1 inch standing water observed in some locations. No macrofauna or indicators of wildlife were noted.

Transect A experienced little overall change during the period between the Spring 2008 and Spring 2009 monitoring periods. The coverage of live punk tree (*Melaleuca quinquenervia*) saplings decreased in Spring 2009 (0.7% total coverage) from Spring 2008 (1.7% total coverage). Plots 28 through 30 have decreased in punk tree coverage from the previous monitoring year. Of the 30 plots along the transect, only 2 plots contained live punk trees, a decrease from 10 plots during the Spring 2008 monitoring year. The amount of saw grass decreased to 23.3% in Spring 2009 from 32.2% in Spring 2008.

In summary, the percent vegetative coverage by layer for this transect were as follows:

- In the submerged aquatics layer only, there was 100% open/void.
- In the herbaceous species layer, there was 23.3% live saw grass, 18.7% dead saw grass, 0.7% live punk tree, 1.5% dead punk tree, 19.3% capillary hairsedge (*Bulbostylis ciliataefolia*), 1.0% dead biomass, and 23.8% open/void.
- In the sapling/vine layer, there was 0.5% of nettletree (*Trema micranthum*), which is found at the beginning of the transect at A1, and 99.5% open/void.
- In the overstory layer, 100% open/void.

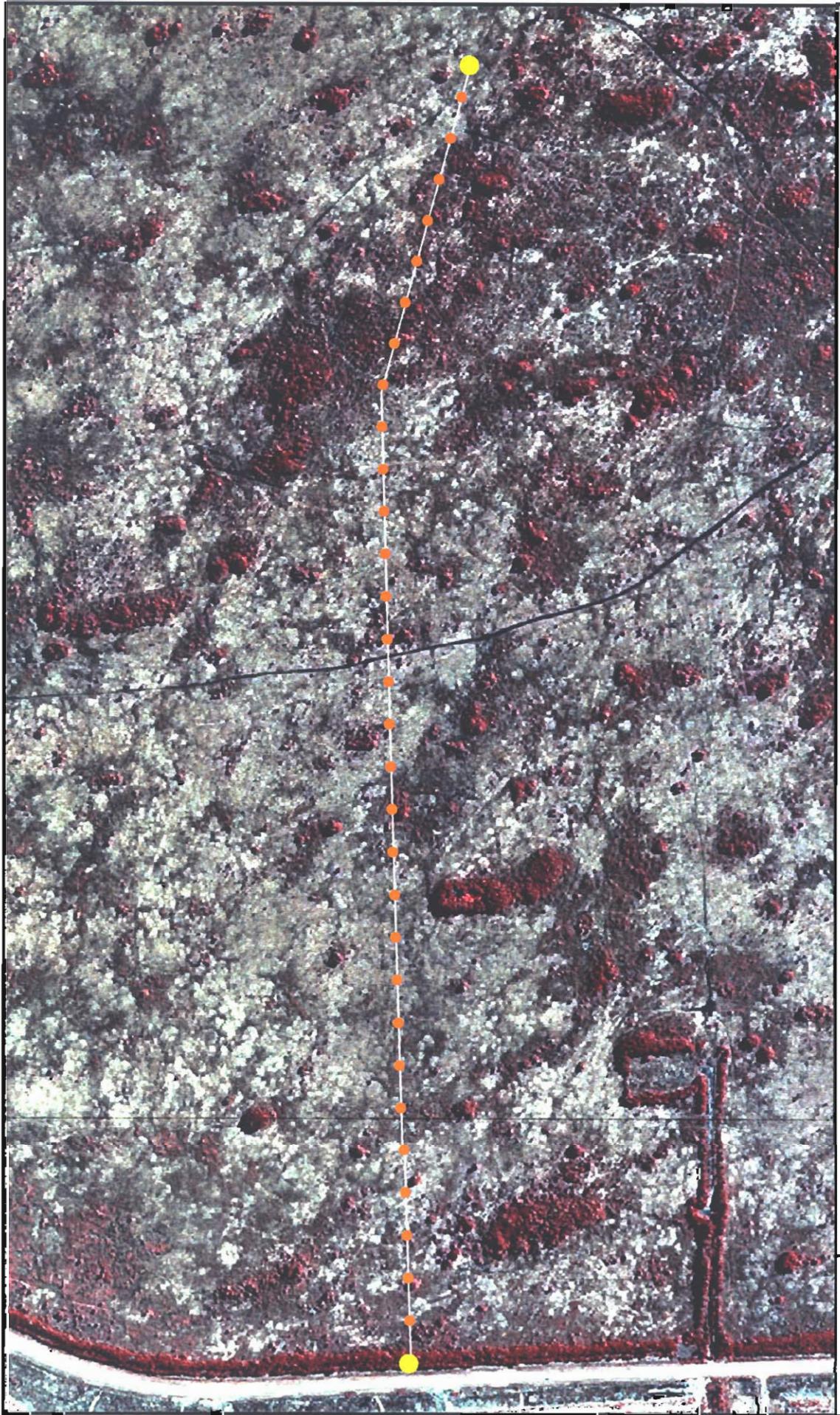


Figure 3. Transect A

End Points of Segment
Data Collection Locations

SUBMERGED AQUATICS

7/11/2009

6/28/2008

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0.0%	0.0%
Bladderwort	<i>Utricularia foliosa</i>	0.0%	0.0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0.0%	0.0%
Ludwigia	<i>Ludwigia repens</i>	0.0%	0.0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0.0%	0.0%
Open/Void	N/A	100.0%	100.0%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	23.3%	32.2%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	18.7%	23.5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.7%	1.7%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	1.5%	3.5%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0.0%	0.0%
Southern Swamp Lily	<i>Crinum americanum</i>	1.7%	1.8%
Pickerelweed	<i>Pontederia lanceolata</i>	0.0%	0.0%
Yellowtops	<i>Flaveria linearis</i>	0.0%	0.3%
Arrowhead	<i>Sagittaria graminea</i>	1.8%	0.8%
Floating-Heart	<i>Nymphoides aquatica</i>	0.5%	0.0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	19.3%	11.0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	4.0%	1.3%
Button Bush	<i>Cephalanthus occidentalis</i>	0.0%	0.0%
Maiden-Cane	<i>Panicum hemitomum</i>	0.0%	0.0%
Shield Fern	<i>Thelypteris kunthii</i>	1.7%	0.3%
Swamp Fern	<i>Blechnum serrulatum</i>	1.7%	2.7%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0.0%	0.0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0.0%	0.0%
False Buttonweed	<i>Borreria laevis</i>	0.0%	0.0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0.0%	0.0%
Cattail	<i>Typha latifolia</i>	0.0%	0.2%
Unknown (A-1) (<i>Commelinaceae</i> sp.?)	N/A	0.0%	0.0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0.3%	0.3%
Dog Fennel	<i>Eupatorium capillifolium</i>	0.0%	0.2%
Dead Biomass	N/A	1.0%	5.3%
Open Water/Mud/Void	N/A	23.8%	14.7%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Nettletree	<i>Trema micranthum</i>	0.5%	0.3%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0.0%	0.0%
Open/Void	N/A	99.5%	99.7%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Golden Fig	<i>Ficus aurea</i>	0.0%	0.0%
Open/Void	N/A	100.0%	100.0%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009	6/28/2008
		% Coverage	% Coverage
Water-Hyssops	<i>Bacoda caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009	6/28/2008
		% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	10%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	50%	10%
Swamp Fern	<i>Blechnum serrulatum</i>	50%	80%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009	6/28/2008
		% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	15%	10%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	85%	90%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009	6/28/2008
		% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture

Dry

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacoda caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	45%	45%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	35%	45%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	5%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

7/11/2009

6/28/2008

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacoda caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	5%	20%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	20%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	15%	5%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	80%	55%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

7/11/2009

6/28/2008

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacoda caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	15%	5%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	20%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	5%
Open Water/Mud/Void	N/A	65%	90%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

- Water Level / Soil Moisture _____
- Aquatic Macrofauna _____
- Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

7/11/2009

6/28/2008

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacoda caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	45%	65%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	25%	35%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	20%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

7/11/2009

6/28/2008

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	20%	45%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	10%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	15%	15%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	55%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	30%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

- Water Level / Soil Moisture _____
- Aquatic Macrofauna _____
- Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

7/11/2009

6/28/2008

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	40%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	45%	40%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	10%	5%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	5%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	5%	10%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	45%	50%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	50%	45%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	5%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	45%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	40%	55%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	15%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	5%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

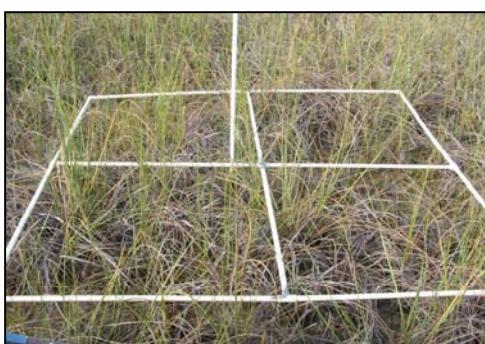
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	20%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	55%	75%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	5%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

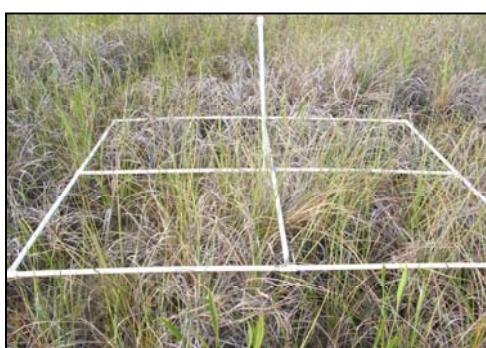
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	10%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	55%	45%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	5%	10%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	35%
Open Water/Mud/Void	N/A	40%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	55%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	60%	45%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	10%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	5%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	35%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	20%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	5%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	60%	60%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	50%	55%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	45%	45%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	5%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	40%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	35%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	40%	25%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	20%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	5%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	20%	20%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	10%	25%
Open Water/Mud/Void	N/A	35%	20%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

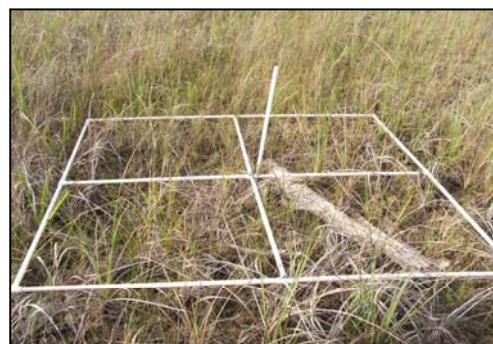
Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	30%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	25%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	5%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	40%	45%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	15%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	5%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	55%	45%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	30%
Open Water/Mud/Void	N/A	40%	0%
TOTAL		100%	95%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

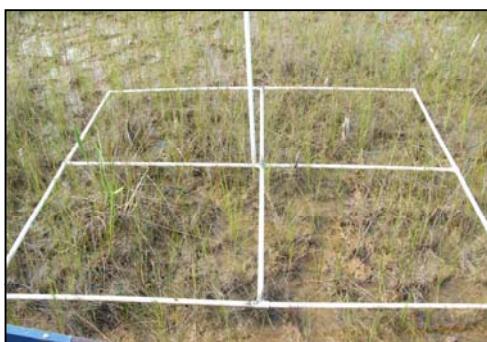
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	45%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	55%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	5%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	10%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	40%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	45%	50%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	5%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	5%	5%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

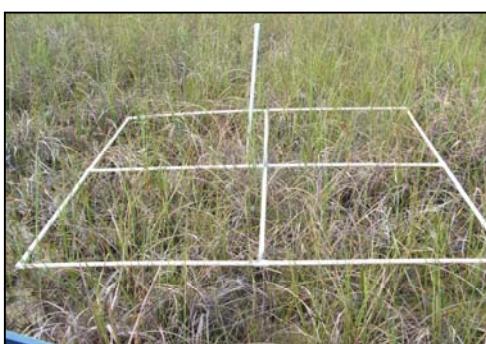
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	60%	55%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	25%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	5%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	15%	20%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	10%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	25%	20%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	5%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	70%	35%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	25%	20%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	20%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	55%	55%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	15%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	15%	25%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	10%	5%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	30%	10%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	5%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	45%	40%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	20%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	15%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	60%	60%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	20%	0%
Open Water/Mud/Void	N/A	20%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	45%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	10%	10%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	70%	10%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A		35%
Open Water/Mud/Void	N/A	20%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	10%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	5%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	85%	50%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	30%
Open Water/Mud/Void	N/A	10%	10%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	20%	45%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	25%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	20%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	15%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	55%	10%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	25%	20%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	15%	20%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	25%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	5%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	10%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	5%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	0%	5%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

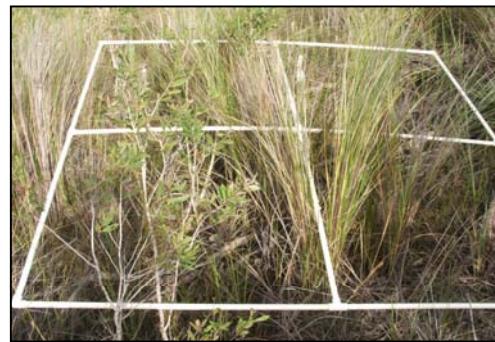
Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

7/11/2009

6/28/2008

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Proserpinaca palustris</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw-grass (Alive)	<i>Cladium jamaicense</i>	55%	45%
Saw-grass (Dead)	<i>Cladium jamaicense</i>	40%	45%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	10%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweeds	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Water Cowbane (white flower)	<i>Oxypolis filiformis</i>	0%	0%
False Buttonweed	<i>Borreria laevis</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Unknown (A-1)	N/A	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

TRANSECT B

Narrative

Transect B is located in Section 5, Township 53, Range 39 (Cell 26 – Pennsuco Exotic Treatment Area). It starts at Point B1 approximately one mile east of Krome Avenue (GPS Coordinates Latitude 25° 51' 20.39", Longitude 80° 28' 01.70") and extends one mile east to Point B30 at the Dade-Broward Levee (Figure 4). One community type - wet prairie primarily dominated by saw grass (*Cladium jamaicense*) - was identified for Transect B. Previous control efforts consisted of herbicidal treatment and a physical removal program followed by a controlled burn. A fire burned throughout this transect in the summer of 2004.

Observations from July 11, 2009 monitoring

The entire transect was observed to be saturated with water surface levels ranging from 2 to 4 inches at the sampled points. No macrofauna or indicators of wildlife were noted.

The transect increased slightly in punk trees in Spring 2009 (0.3% total coverage) when compared to Spring 2008 (0.2% total coverage). Saw grass was once again the dominant species at 39.2% coverage, a slight decrease over the 40.5% coverage in Spring 2008. The amount of open/void coverage in the herbaceous layer increased to 27.7%. There were no other notable changes in species dominance during the Spring 2009 visit.

In summary, the percent vegetative coverage by layer for this transect as described below:

- The submerged aquatics layer was open/void except for 0.2% water-hyssops (*Bacopa caroliniana*).
- In the herbaceous species layer, the primary species were 39.2% live saw grass, 18.5% dead saw grass, 4.0% capillary hairsedge (*Bulbostylis ciliataefolia*), 2.7% arrowhead (*Sagittaria graminea*), 2.0% buttonbush (*Cephalanthus occidentalis*), 2.2% southern swamp lily (*Crinum americanum*), 1.2% Tracy's beak rush (*Rhynchospora tracyi*), and 27.7% open/void.
- In the sapling/vine layer, the transect was 100% open/void.
- In the overstory layer, the coverage was comprised of 100% open/void.

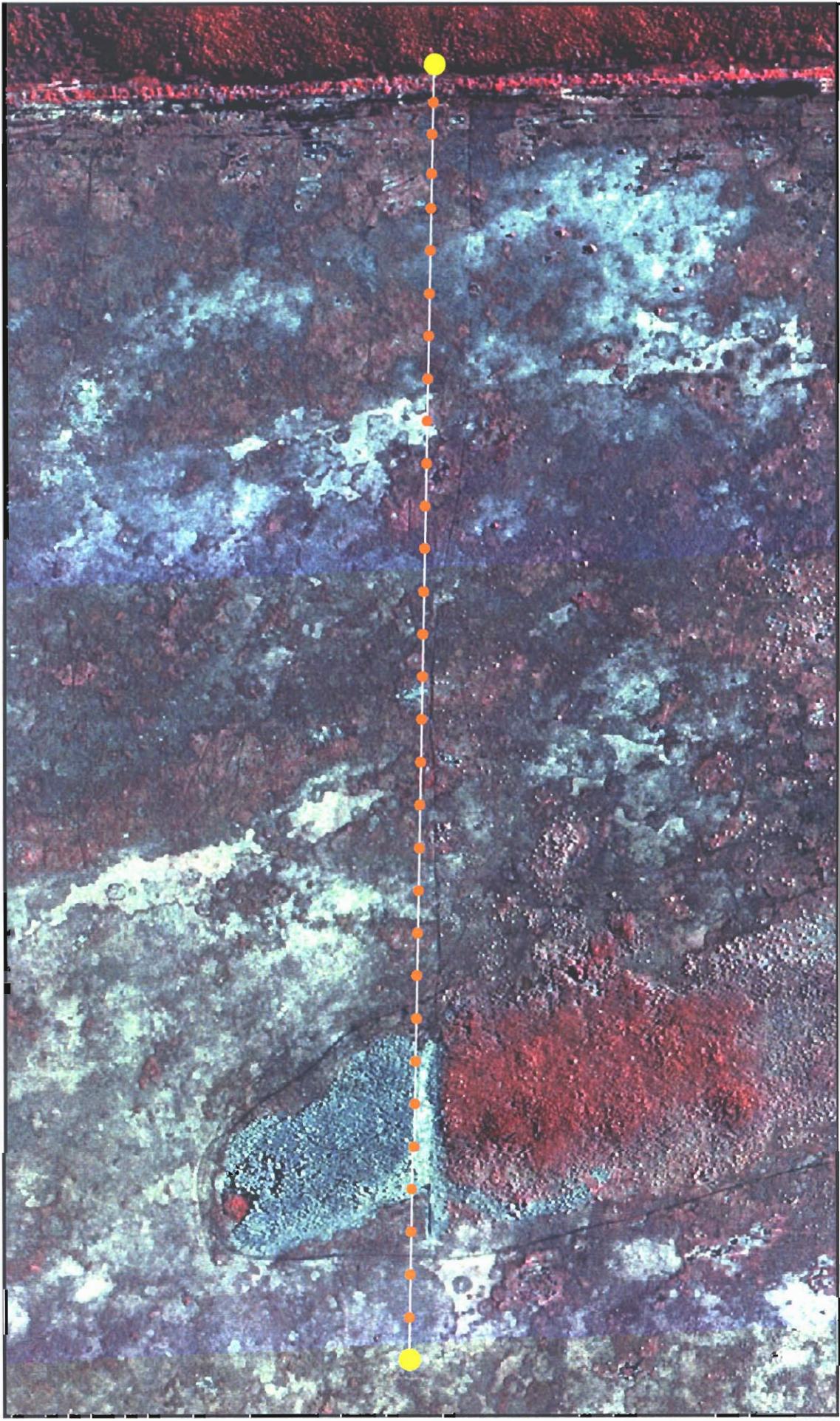


Figure 4. Transect B

End Points of Segment
Data Collection Locations

KC
TECHNOLOGIES

N

300 0 300 Feet

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009	6/28/2008
Mermaid Weed	<i>Proserpinaca palustris</i>	0.0%	0.0%
Bladderwort	<i>Utricularia foliosa</i>	0.0%	0.0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0.2%	0.2%
Ludwigia	<i>Ludwigia repens</i>	0.0%	0.0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0.0%	0.0%
Open/Void	N/A	99.8%	99.8%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	39.2%	40.5%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	18.5%	26.2%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.3%	0.2%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0.5%	1.3%
Southern Swamp Lily	<i>Crinum americanum</i>	2.2%	1.0%
Pickerelweed	<i>Pontederia lanceolata</i>	0.0%	0.0%
Yellowtops	<i>Flaveria linearis</i>	0.0%	0.0%
Arrowhead	<i>Sagittaria graminea</i>	2.7%	1.8%
Duck Potato	<i>Sagittaria latifolia</i>	0.2%	0.0%
Paragrass	<i>Urochloa mutica</i>	0.8%	0.7%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	4.0%	0.0%
Cattail	<i>Typha latifolia</i>	0.0%	0.2%
Button Bush	<i>Cephalanthus occidentalis</i>	2.0%	1.8%
Maiden-Cane	<i>Panicum hemitomum</i>	0.0%	0.0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	1.2%	0.2%
Swamp Fern	<i>Blechnum serrulatum</i>	0.0%	0.0%
Horned bladderwort	<i>Utricularia cornuta</i>	0.0%	0.0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0.0%	0.0%
Swamp Cabbage	<i>Sabal palmetto</i>	0.0%	0.0%
Floating-Heart	<i>Nymphoides aquatica</i>	0.8%	0.3%
Dogfennel	<i>Eupatorium capillifolium</i>	0.0%	0.5%
Unknown cattail	N/A	0.0%	0.0%
Dead Biomass	N/A	0.0%	0.3%
Open Water/Mud/Void	N/A	27.7%	25.0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Nettletree	<i>Trema micranthum</i>	0.0%	0.0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0.0%	0.0%
Open/Void	N/A	100.0%	100.0%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Golden Fig	<i>Ficus aurea</i>	0.0%	0.0%
Open/Void	N/A	100.0%	100.0%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	50%	50%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	30%	30%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	20%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	60%	75%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	35%	25%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosyris ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	5%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

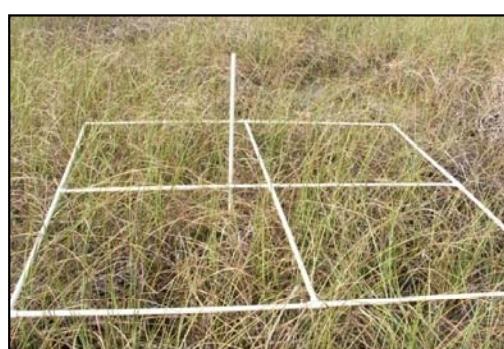
Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture 3 inches
 Aquatic Macrofauna
 Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	50%	50%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	35%	40%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	15%	10%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	55%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	40%	30%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	10%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	15%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	35%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	25%	45%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosyris ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	5%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	30%	20%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

7/11/2009

6/28/2008

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	50%	55%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	30%	30%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	15%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	15%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	5%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	5%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	5%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	10%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	75%	80%
TOTAL		100%	100%

SAPLING / VINE

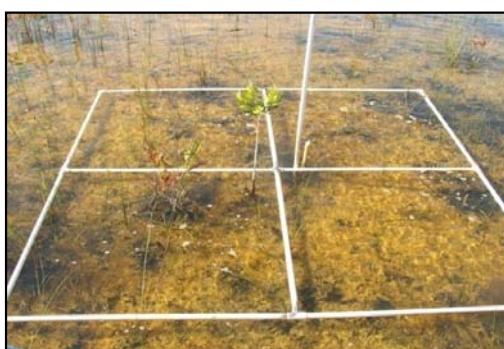
Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture 3 inches
 Aquatic Macrofauna
 Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	10%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	20%	20%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	20%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	45%	50%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	10%
Open Water/Mud/Void	N/A	15%	10%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	5%	10%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	20%	20%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosyris ciliataefolia</i>	65%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	5%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	35%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	10%	25%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	5%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	30%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	5%	5%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	5%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	50%	35%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	40%	55%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	5%	5%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	10%	5%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	10%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	25%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	5%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	35%	45%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

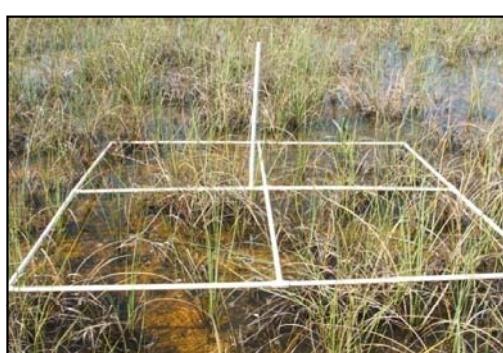
Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

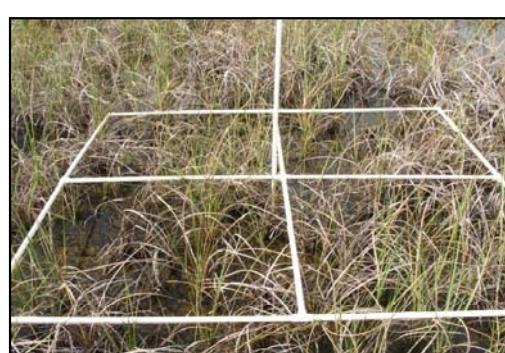
Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	5%	5%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	95%	95%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	75%	65%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	30%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	5%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/28/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	20%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	5%
Southern Swamp Lily	<i>Crinum americanum</i>	5%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	5%	5%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	55%	45%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

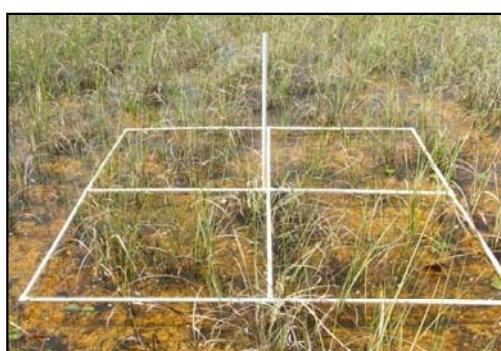
NOTES:

Water Level / Soil Moisture

3 inches

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	60%	55%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	35%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	10%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

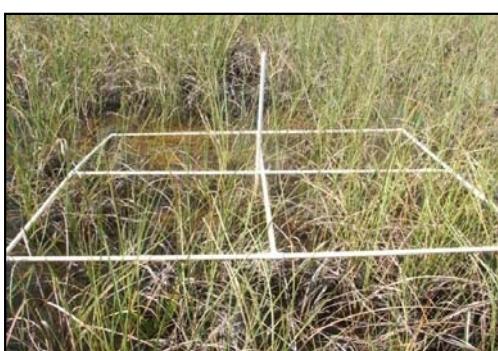
Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

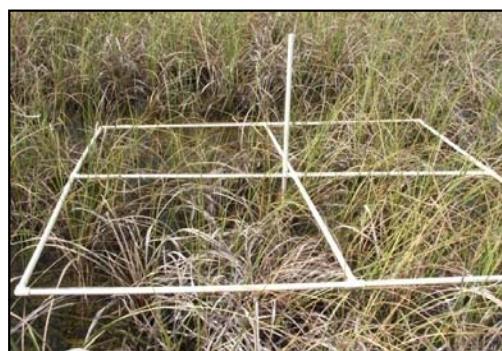
Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	40%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	20%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	10%	5%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	5%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	10%	5%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	5%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	50%	25%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

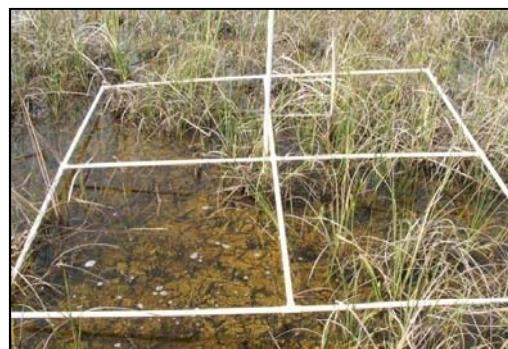
Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	15%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	45%	60%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	35%	40%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	25%	50%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosyris ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	40%	10%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

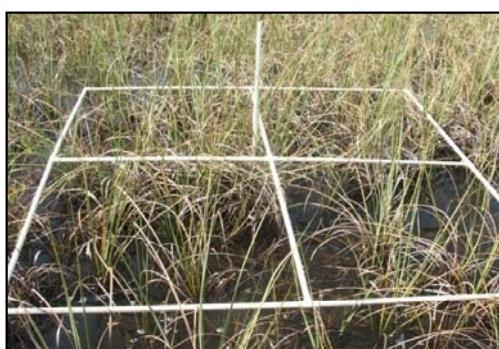
Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	60%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	55%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	20%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

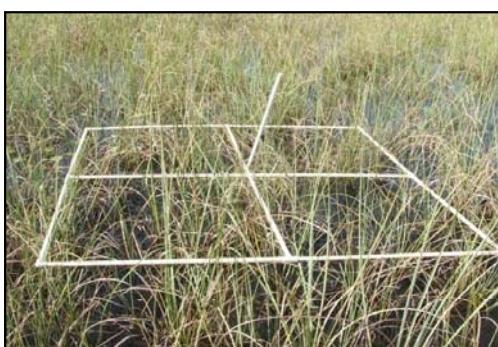
Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	40%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	55%	30%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	60%	20%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	70%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	10%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

4 inches

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	70%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	60%	30%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosyris ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	70%	55%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	25%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	5%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	20%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	15%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	10%	10%
Capillary Hairsedge	<i>Bulbosyris ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	15%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	75%	75%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	40%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	15%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	15%	10%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	35%	35%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

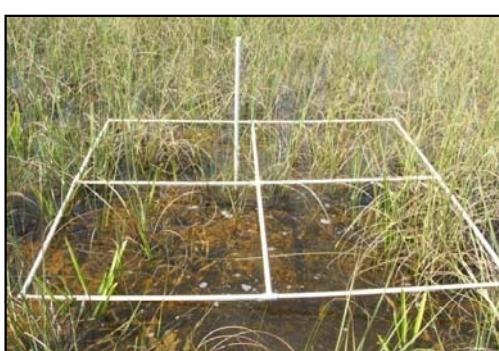
Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	55%	55%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	20%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	5%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	35%	20%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

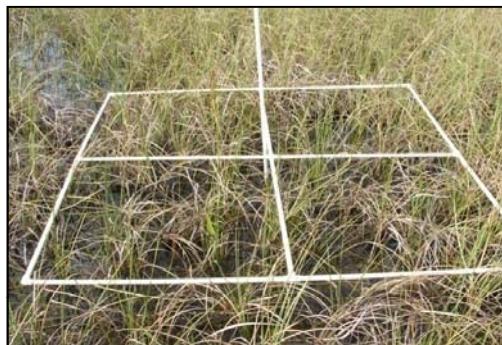
Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	55%	45%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	25%	45%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	15%	10%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	60%	60%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	20%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	10%	5%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	15%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	55%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	15%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	10%	5%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	5%	0%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	50%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	65%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	10%	5%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	15%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	10%	10%
Capillary Hairsedge	<i>Bulbosystis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Horned bladderwort	<i>Utricularia cornuta</i>	0%	0%
Southern Water Hyssop	<i>Amaranthus australis</i>	0%	0%
Swamp Cabbage	<i>Sabal palmetto</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Dogfennel	<i>Eupatorium capillifolium</i>	0%	0%
Unknown cattail	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	15%	20%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	7/11/2009 % Coverage	6/28/2008 % Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

TRANSECT C

Narrative

Transect C is located in Section 18, Township 53, Range 39 (Cell 26 – Pennsuco Exotic Treatment Area). It starts on the levee at Krome Avenue with Point C1 (GPS Coordinates Latitude 25° 53' 12.76", Longitude 80° 29' 03.33") and continues east one mile to point C30 (GPS coordinates Latitude 25° 53' 12.69", Longitude 80° 28' 04.91"), which is west of the Dade-Broward Levee (Figure 5). Two community types were identified for Transect C. Point C1 represents an upland levee community dominated by swamp fern (*Blechnum serrulatum*) and shield fern (*Thelypteris kunthii*) in the herbaceous layer. Points C2 through C30 represent a wet prairie community type dominated by saw grass (*Cladium jamaicense*). A fire burned throughout this transect in the summer of 2004.

Observations from July 11, 2009 monitoring

The entire transect was observed to be saturated with water surface levels ranging from 2 to 4 inches at the sampled points. No macrofauna or indicators of wildlife were noted.

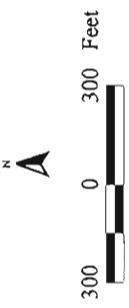
During the Spring 2008 monitoring, the transect was not monitored fully due to missing transect poles. The majority of the poles could not be located and were likely removed from the transect. Transect Plots 1-4 and Plot 30 and monitored at that time. During the Spring 2009 monitoring, new transect plots were installed and monitored, giving the transect 30 plots once again. The plots were evenly placed between the beginning and end of the transect, but the original plots could no longer be identified. As a result of the incomplete transect during 2008, there is little to compare the 2009 results against. However, no punk trees were found within the sampled plots during the 2009 monitoring. Saw grass was the dominant species with 39.0% of live saw grass and an additional 33.0% of dead saw grass.

In summary, the percent vegetative coverage by layer for this transect were as follows:

- In the submerged aquatics layer only, there was 100% open/void.
- In the herbaceous species layer, there was 39.0% live saw grass, 33.0% dead saw grass, 2.5% shield fern (*Thelypteris kunthii*), 1.2% Swamp Fern (*Blechnum serrulatum*), and 19.3% open/void.
- In the sapling/vine layer, there was 100% open/void.
- In the overstory layer, 100% open/void.

Figure 5. Transect C

End Points of Segment
Data Collection Locations



Pennsoco Monitoring Project - Summary Sheet

TRANSECT

"C"

Total Length

5280'

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009	6/25/2008
Mermaid Weed	<i>Proserpinaca palustris</i>	0.0%	0.0%
Bladderwort	<i>Utricularia foliosa</i>	0.0%	0.0%
Bladderwort	<i>Utricularia purpurea</i>	0.0%	0.0%
Ludwigia	<i>Ludwigia repens</i>	0.0%	0.0%
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0.0%	0.0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0.0%	0.0%
Floating-Heart	<i>Nymphoides aquatica</i>	0.0%	0.0%
Open/Void	N/A	100.0%	16.7%
TOTAL		100%	17%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	39.0%	4.0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	33.0%	4.5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Southern Swamp Lily	<i>Crinum americanum</i>	1.0%	0.3%
Pickerelweed	<i>Pontederia lanceolata</i>	0.0%	0.0%
Yellowtops	<i>Flaveria linearis</i>	0.0%	0.0%
Arrowhead	<i>Sagittaria graminea</i>	0.3%	0.0%
Duck Potato	<i>Sagittaria latifolia</i>	0.0%	0.0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0.0%	0.0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0.0%	0.0%
Cattail (Alive)	<i>Typha latifolia</i>	0.5%	0.3%
Cattail (Dead)	<i>Typha latifolia</i>	0.0%	0.0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0.8%	0.0%
Maiden-Cane	<i>Panicum hemitomum</i>	0.0%	0.0%
Shield Fern	<i>Thelypteris kunthii</i>	2.5%	1.2%
Swamp Fern	<i>Blechnum serrulatum</i>	1.2%	1.8%
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0.0%	0.0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0.0%	0.0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0.8%	0.0%
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0.8%	0.8%
Floating-Heart	<i>Nymphoides aquatica</i>	0.3%	0.0%
False Nettle	<i>Boehmeria cylindrica</i>	0.3%	1.7%
Rosy Camphorweed	<i>Pluchea rosea</i>	0.0%	0.0%
Dotted Smartweed	<i>Polygonum punctatum</i>	0.0%	0.2%
Unknown Red Stem	N/A	0.0%	0.0%
Unknown C3	N/A	0.0%	0.0%
Dead Biomass	N/A	0.0%	0.0%
Paragrass	<i>Urochloa mutica</i>	0.0%	1.0%
Open Water/Mud/Void	N/A	19.3%	1.5%
TOTAL		100%	17%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Nettletree	<i>Trema micranthum</i>	0.0%	0.0%
Shrubverbena / Lantana	<i>Lantana camara</i>	0.0%	0.0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0.0%	0.0%
Open/Void	N/A	100.0%	16.7%
TOTAL		100%	17%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Golden Fig	<i>Ficus aurea</i>	0.0%	0.0%
Nettletree	<i>Trema micranthum</i>	1.2%	1.0%
Open/Void	N/A	98.8%	15.7%
TOTAL		100%	17%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____

Vegetation Blocking View

0+00 Panoramic - Looking east

52+78 Panoramic - Looking West



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-1

STATION

0+00

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Open/Void	<i>N/A</i>	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail (Alive)	<i>Typha latifolia</i>	0%	0%
Cattail (Dead)	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	75%	35%
Swamp Fern	<i>Blechnum serrulatum</i>	25%	55%
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
False Nettle	<i>Boehmeria cylindrica</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	0%
Unknown Red Stem	<i>N/A</i>	0%	0%
Unknown C3	<i>N/A</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	10%
Dead Biomass	<i>N/A</i>	0%	0%
Open Water/Mud/Void	<i>N/A</i>	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	<i>N/A</i>	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	35%	30%
Open/Void	<i>N/A</i>	65%	70%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-2

STATION

1+82

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Open/Void	<i>N/A</i>	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	35%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	10%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail (Alive)	<i>Typha latifolia</i>	0%	10%
Cattail (Dead)	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	10%	0%
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
False Nettle	<i>Boehmeria cylindrica</i>	5%	50%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	0%
Unknown Red Stem	<i>N/A</i>	0%	0%
Unknown C3	<i>N/A</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Dead Biomass	<i>N/A</i>	0%	0%
Open Water/Mud/Void	<i>N/A</i>	40%	30%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	<i>N/A</i>	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	<i>N/A</i>	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-3

STATION

3+64

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Open/Void	<i>N/A</i>	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	30%	50%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	55%	50%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail (Alive)	<i>Typha latifolia</i>	0%	0%
Cattail (Dead)	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	10%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
False Nettle	<i>Boehmeria cylindrica</i>	5%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	0%
Unknown Red Stem	<i>N/A</i>	0%	0%
Unknown C3	<i>N/A</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Dead Biomass	<i>N/A</i>	0%	0%
Open Water/Mud/Void	<i>N/A</i>	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	<i>N/A</i>	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	<i>N/A</i>	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture

2 inches

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-4

STATION

5+46

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Open/Void	<i>N/A</i>	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	30%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	45%	45%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail (Alive)	<i>Typha latifolia</i>	0%	0%
Cattail (Dead)	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	25%	25%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
False Nettle	<i>Boehmeria cylindrica</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	5%
Unknown Red Stem	<i>N/A</i>	0%	0%
Unknown C3	<i>N/A</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Dead Biomass	<i>N/A</i>	0%	0%
Open Water/Mud/Void	<i>N/A</i>	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	<i>N/A</i>	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	<i>N/A</i>	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-5

STATION

7+28

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	65%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	35%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	0%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009

Marker Missing

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-6

STATION

9+10

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	55%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	30%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	15%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	0%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-7

STATION

10+92

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	30%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	55%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephalanthus occidentalis</i>	15%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	0%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-8

STATION

12+74

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	30%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	60%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	10%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephalanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	0%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-9

STATION

14+56

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	60%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	5%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	25%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009

Marker Missing

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-10

STATION

16+38

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	80%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	5%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephalanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	0%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009

Marker Missing

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-11

STATION

18+20

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	60%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	0%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture 3 inches

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-12

STATION

20+02

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	45%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	40%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	15%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-13

STATION

21+84

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	30%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	55%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	5%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephalanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	10%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

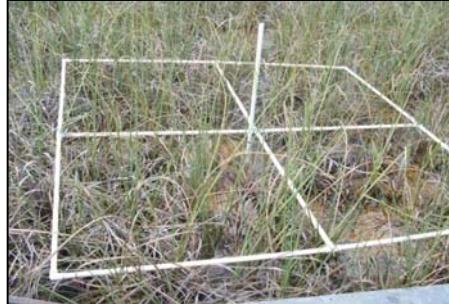
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-14

STATION

23+66

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	70%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	25%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	5%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	0%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture	2 inches
Aquatic Macrofauna	
Wildlife Indicators (tracks, scat, nests)	



Spring 2009

Marker Missing

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-15

STATION

25+48

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	55%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	25%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephalanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	20%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-16

STATION

27+30

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	30%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	45%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	25%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-17

STATION

29+12

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	35%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	45%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	20%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Spring 2009

Marker Missing

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-18

STATION

30+94

SUBMERGED AQUATICS

Common Name	Scientific Name	7/11/2009	6/25/2008
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	7/11/2009	6/25/2008
Saw Grass (Alive)	<i>Cladium jamaicense</i>	45%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	35%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephalanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	N/A	0%	
Unknown C3	N/A	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Dead Biomass	N/A	0%	
Open Water/Mud/Void	N/A	20%	
TOTAL		100%	0%

SAPLING / VINE

Common Name	Scientific Name	7/11/2009	6/25/2008
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

OVERSTORY

Common Name	Scientific Name	7/11/2009	6/25/2008
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-19

STATION

32+76

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	60%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Duck Potato	<i>Ipomoea sagittata</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomonum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	20%	
TOTAL		100%	0%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL		100%	0%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL		100%	0%

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Fall 2007
Spring 2009

Marker Missing

Spring 2008

Pennsoco Monitoring Project - Data Form

TRANSECT / POINT

C-20

STATION

34+58

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	50%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	N/A	0%	
Unknown C3	N/A	0%	
Dead Biomass	N/A	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Open Water/Mud/Void	N/A	25%	
TOTAL		100%	0%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NEW PLOT

Water Level / Soil Moisture

3 inches

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-21

STATION

36+40

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	25%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephalanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	N/A	0%	
Unknown C3	N/A	0%	
Dead Biomass	N/A	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Open Water/Mud/Void	N/A	50%	
TOTAL		100%	0%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-22

STATION

38+22

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	20%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	50%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	N/A	0%	
Unknown C3	N/A	0%	
Dead Biomass	N/A	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Open Water/Mud/Void	N/A	30%	
TOTAL		100%	0%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-23

STATION

40+04

7/11/2009

6/25/2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	N/A	100%	
TOTAL	100%	0%	

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	45%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	N/A	0%	
Unknown C3	N/A	0%	
Dead Biomass	N/A	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Open Water/Mud/Void	N/A	35%	
TOTAL	100%	0%	

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	N/A	100%	
TOTAL	100%	0%	

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	N/A	100%	
TOTAL	100%	0%	

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-24

STATION

41+86

7/11/2009

6/25/2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	50%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	30%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	20%	
TOTAL		100%	0%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL		100%	0%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL		100%	0%

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-25

STATION

43+68

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	30%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	N/A	0%	
Unknown C3	N/A	0%	
Dead Biomass	N/A	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Open Water/Mud/Void	N/A	50%	
TOTAL		100%	0%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Spring 2009

Spring 2008

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-26

STATION

45+50

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	15%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	65%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	10%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	N/A	0%	
Unknown C3	N/A	0%	
Dead Biomass	N/A	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Open Water/Mud/Void	N/A	10%	
TOTAL		100%	0%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-27

STATION

47+32

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	35%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	N/A	0%	
Unknown C3	N/A	0%	
Dead Biomass	N/A	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Open Water/Mud/Void	N/A	45%	
TOTAL		100%	0%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-28

STATION

49+14

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	10%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	25%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	N/A	0%	
Unknown C3	N/A	0%	
Dead Biomass	N/A	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Open Water/Mud/Void	N/A	65%	
TOTAL		100%	0%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-29

STATION

50+96

7/11/2009

6/25/2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	
Bladderwort	<i>Utricularia foliosa</i>	0%	
Bladderwort	<i>Utricularia purpurea</i>	0%	
Ludwigia	<i>Ludwigia repens</i>	0%	
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	35%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	45%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria graminea</i>	0%	
Duck Potato	<i>Sagittaria latifolia</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail (Alive)	<i>Typha latifolia</i>	0%	
Cattail (Dead)	<i>Typha latifolia</i>	0%	
Button Bush	<i>Cephalanthus occidentalis</i>	0%	
Maiden-Cane	<i>Panicum hemitomum</i>	0%	
Shield Fern	<i>Thelypteris kunthii</i>	0%	
Swamp Fern	<i>Blechnum serrulatum</i>	0%	
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
False Nettle	<i>Boehmeria cylindrica</i>	0%	
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	
Unknown Red Stem	<i>N/A</i>	0%	
Unknown C3	<i>N/A</i>	0%	
Dead Biomass	<i>N/A</i>	0%	
Paragrass	<i>Urochloa mutica</i>	0%	
Open Water/Mud/Void	<i>N/A</i>	20%	
TOTAL		100%	0%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL		100%	0%

OVERSTORY

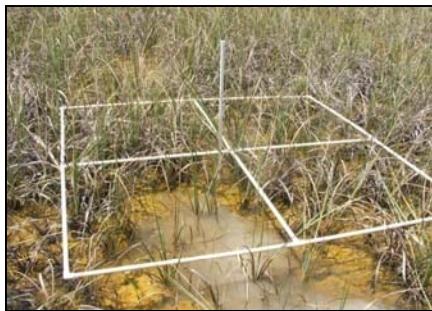
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Golden Fig	<i>Ficus aurea</i>	0%	
Nettletree	<i>Trema micranthum</i>	0%	
Open/Void	<i>N/A</i>	100%	
TOTAL		100%	0%

NOTES: NEW PLOT

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Marker Missing

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-30

STATION

52+78

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudgrass	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	65%	45%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	40%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail (Alive)	<i>Typha latifolia</i>	0%	0%
Cattail (Dead)	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Chinese Ladder Brake (Fern)	<i>Pteris vittata</i>	0%	0%
Horned bladderwort (Rush/yellow flower)	<i>Utricularia cornuta</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Giant Leather Fern	<i>Acrostichum danaeifolium</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
False Nettle	<i>Boehmeria cylindrica</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dotted Smartweed	<i>Polygonum punctatum</i>	0%	0%
Unknown Red Stem	N/A	0%	0%
Unknown C3	N/A	0%	0%
Dead Biomass	N/A	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Open Water/Mud/Void	N/A	35%	15%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Shrubverbena / Lantana	<i>Lantana camara</i>	0%	0%
Saltmarsh morning glory (vine)	<i>Ipomoea sagittata</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



TRANSECT DR

Narrative

Transect DR is a relocated transect due to the previous D transect being a treated area. Transect DR is located in Section 31, Township 53, Range 39 east (Cell 26 - Pennsoco Exotic Treatment Area). It starts at point DR1 approximately one mile east of Krome Avenue (GPS Coordinates Latitude 25° 47' 20.64", Longitude 80° 28' 46.31") and continues southwest to point DR25 (GPS coordinates Latitude 25° 47' 45.57", Longitude 80° 28' 09.88") (Figure 6). One community type, wet prairie, primarily dominated by saw grass (*Cladium jamaicense*) in the herbaceous layer and punk tree (*Melaleuca quinquenervia*) in the sapling/vine layer, was identified for transect DR.

SFWMD requested that the existing D transect location be relocated to an untreated area during the November 2003 monitoring period. The new transect (DR) was established at approximately equally spaced intervals of 150 feet along the transect. The transect was shortened due to dense upland area that was not easily accessible. During the Fall 2006 visit, markers were missing at DR-13 through DR-17 and DR-19. These markers were reestablished along the transect during the Spring 2007 monitoring visit.

Observations from July 11, 2009 monitoring

The transect had ponded water along its entire length, ranging from 2 to 5 inches at the monitoring points. No macrofauna or indicators of wildlife were noted. One plot (Plot 16) was missing its PVC marker and a new plot had to be established.

The percentage of punk tree coverage decreased from 1.4% coverage in Spring 2008 to 0.4% coverage in Spring 2009. The dominant herbaceous cover in Transect DR was live saw grass with 26.0% coverage. The transect also has 30.4% open/void coverage in the herbaceous layer.

In summary, the percent vegetative coverage by layer for this transect was identified as follows:

- In the submerged aquatics layer, the coverage included 100% open/void coverage.
- In the herbaceous species layer, the dominant species covering the transect included 26.0% live saw grass, 18.4% dead saw grass, 14.0% Tracy's beak rush (*Rhynchospora tracyi*), 3.6% southern swamp lily (*Crinum americanum*), 1.4% maiden cane (*Panicum hemitomum*), and 1.5% pickerelweed (*Pontederia lanceolata*)
- In the sapling/vine layer, the coverage is 100% open/void.
- In the overstory layer, the transect had 100% open/void coverage.

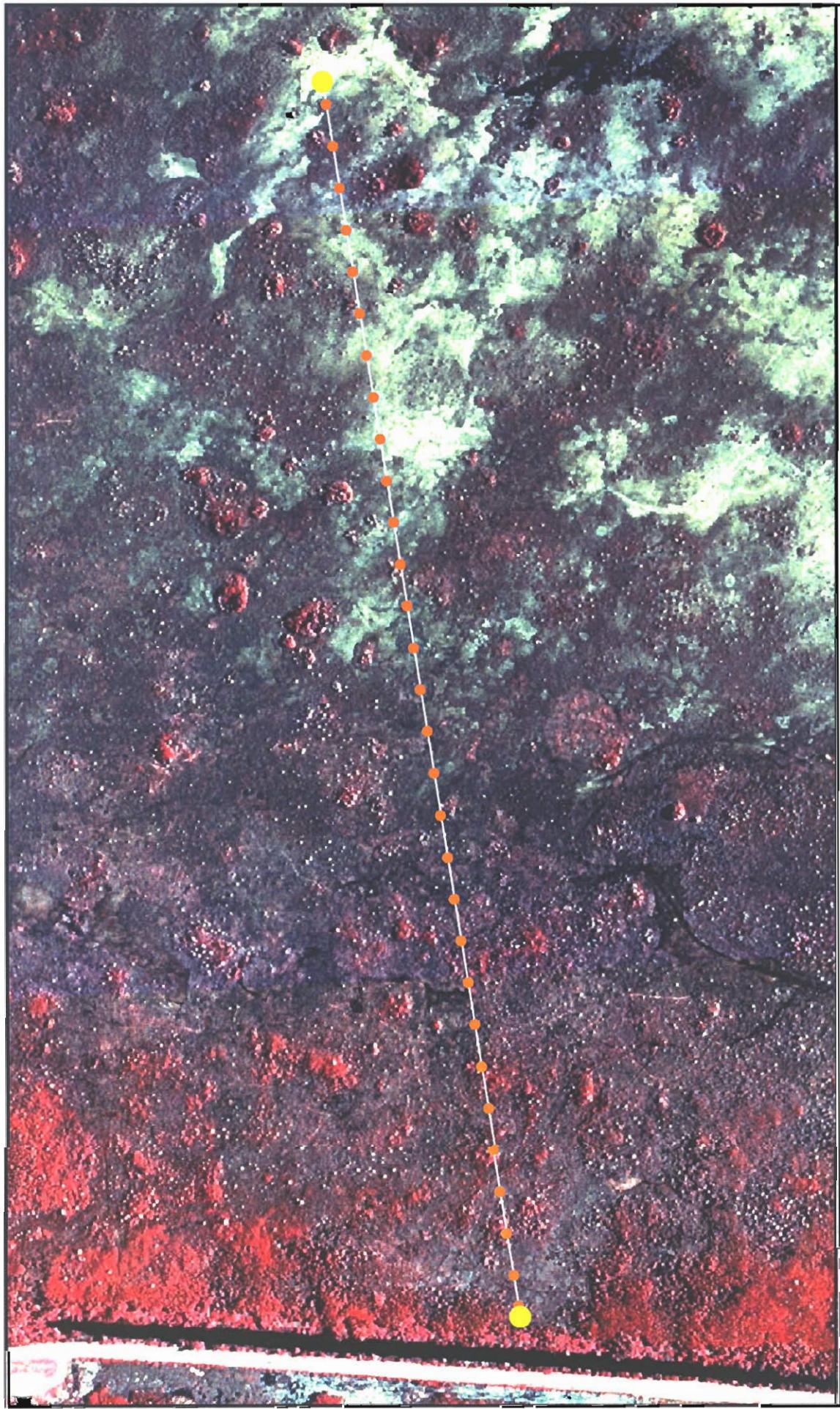


Figure 6. Transect D

● End Points of Segment
● Data Collection Locations



N
A
300 0 300 Feet

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0.0%	0.0%
Bladderwort	<i>Utricularia foliosa</i>	0.0%	0.0%
Bladderwort	<i>Utricularia purpurea</i>	0.0%	0.0%
Ludwigia	<i>Ludwigia repens</i>	0.0%	0.0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0.0%	0.0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0.0%	0.4%
Open/Void	N/A	100.0%	99.6%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	26.0%	22.8%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	18.4%	28.0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.4%	1.4%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	1.0%	1.0%
Southern Swamp Lily	<i>Crinum americanum</i>	3.6%	2.0%
Pickerelweed	<i>Pontederia lanceolata</i>	1.5%	0.0%
Yellowtops	<i>Flaveria linearis</i>	0.0%	0.0%
Duck Potato	<i>Sagittaria latifolia</i>	0.0%	0.0%
Arrowhead	<i>Sagittaria graminea</i>	0.8%	1.2%
Floating-Heart	<i>Nymphoides aquatica</i>	0.0%	0.0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0.0%	3.8%
Cattail	<i>Typha latifolia</i>	0.0%	0.0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0.0%	0.0%
Maiden-Cane	<i>Panicum hemitomum</i>	1.4%	1.8%
Shield Fern	<i>Thelypteris kunthii</i>	0.0%	0.0%
Swamp Fern	<i>Blechnum serrulatum</i>	0.0%	0.0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	14.0%	6.6%
Paragrass	<i>Urochloa mutica</i>	0.0%	0.0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0.0%	0.0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	1.4%	0.0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0.0%	0.0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0.0%	0.0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0.6%	0.8%
Dog Fennel	<i>Eupatorium capillifolium</i>	0.0%	0.4%
Rosy Camphorweed	<i>Pluchea rosea</i>	0.2%	0.0%
Dead Biomass	N/A	0.6%	0.4%
Open Water/Mud/Void	N/A	30.4%	30.0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Nettletree	<i>Trema micranthum</i>	0.0%	0.0%
Open/Void	N/A	100.0%	100.0%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0.0%	0.0%
Golden Fig	<i>Ficus aurea</i>	0.0%	0.0%
Open/Void	N/A	100.0%	100.0%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

0+00 Panoramic - Looking east



52+78 Panoramic - Looking West



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	5%
Open/Void	N/A	100%	95%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	5%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	10%	10%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	30%	30%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	5%	0%
Dead Biomass	N/A	15%	0%
Open Water/Mud/Void	N/A	35%	60%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture 5 inches
 Aquatic Macrofauna
 Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	5%
Open/Void	N/A	100%	95%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	10%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	60%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	5%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	5%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	50%	25%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



Spring 2009



Spring 2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	15%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	20%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	80%	20%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	5%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	5%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	5%	55%
TOTAL		100%	105%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	35%	70%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	65%	30%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

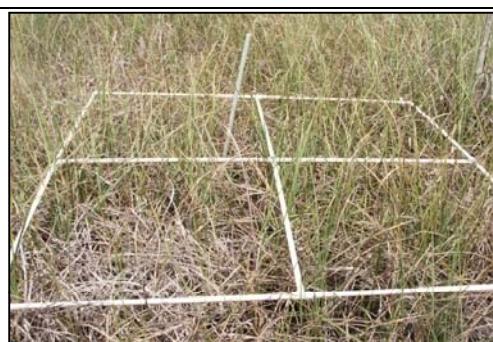
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	65%	40%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	55%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	15%	5%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	15%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

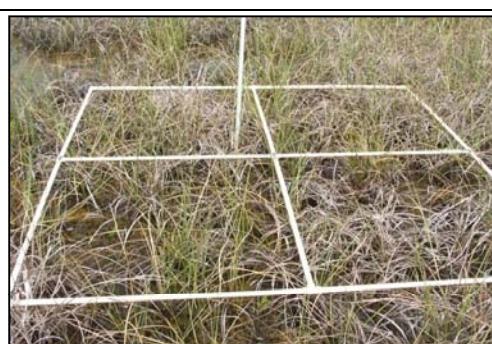
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	35%	35%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	40%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	45%	20%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	40%	50%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	40%	30%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	20%
TOTAL		100%	100%

SAPLING / VINE

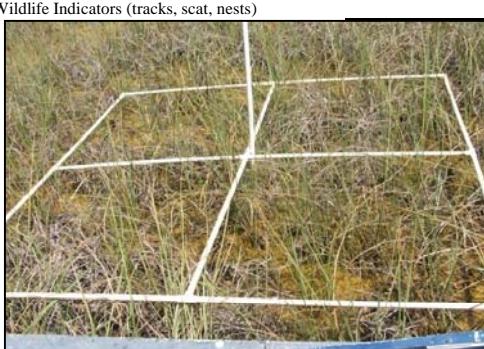
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture 2 inches
 Aquatic Macrofauna
 Wildlife Indicators (tracks, scat, nests)



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	65%	45%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	30%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	25%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

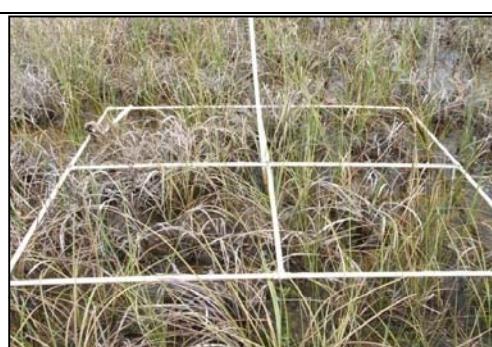
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	20%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	40%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	65%	30%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	45%	20%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	25%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	40%	55%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	15%	10%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	15%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	10%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	70%	75%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	30%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	45%	45%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	10%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	15%	25%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	35%	50%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	5%	5%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	5%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	10%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	25%	10%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	50%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	5%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	15%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	45%	20%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

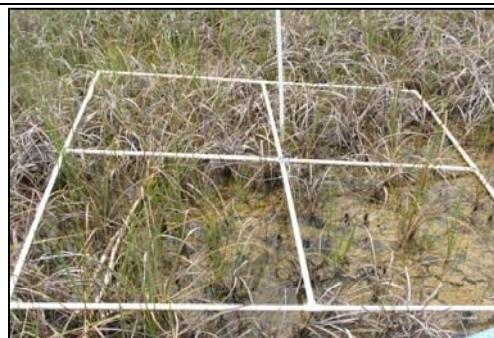
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture 3 inches

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	35%	20%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	65%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	45%	15%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	55%	55%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	35%	40%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	5%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

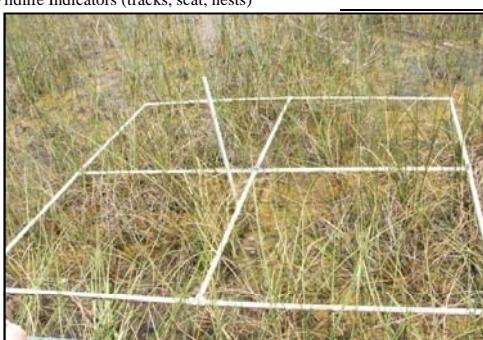
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	15%	20%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	15%	5%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	70%	70%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	55%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	35%	45%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	25%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	20%	10%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	45%	20%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	10%
Open Water/Mud/Void	N/A	35%	60%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	35%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	50%	55%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	15%	10%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	10%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	10%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	15%	10%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	60%	25%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	25%	55%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: PVC marker missing - established new plot and added new PVC marker.

Water Level / Soil Moisture

4 inches

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	30%	40%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	35%	20%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	20%	20%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	15%	20%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

7/11/2009

6/25/2008

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	5%	0%
Pickeralweed	<i>Pontederia lanceolata</i>	15%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	15%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	0%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitonum</i>	0%	5%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	35%	65%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	35%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	10%	10%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	5%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	0%	0%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: _____

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	20%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	5%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	10%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	65%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephaelanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	40%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	5%	5%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	20%	25%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture _____

Aquatic Macrofauna _____

Wildlife Indicators (tracks, scat, nests) _____



7/11/2009

6/25/2008

SUBMERGED AQUATICS

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Manatee Mudflower	<i>Micranthemum glomeratum</i>	0%	0%
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	0%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	10%	15%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Duck Potato	<i>Sagittaria latifolia</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	5%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	25%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	20%	0%
Paragrass	<i>Urochloa mutica</i>	0%	0%
Horned Bladderwort	<i>Utricularia cornuta</i>	0%	0%
Shortbeak Beaksedge	<i>Rhynchospora nitens</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Shrubby False Buttonweed	<i>Spermacoce verticillata</i>	0%	0%
Redtop Panicum (formerly Unknown DR-3)	<i>Panicum rigidulum</i>	0%	0%
Dog Fennel	<i>Eupatorium capillifolium</i>	0%	0%
Rosy Camphorweed	<i>Pluchea rosea</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	70%	55%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Nettletree	<i>Trema micranthum</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

- Water Level / Soil Moisture 4 inches
- Aquatic Macrofauna
- Wildlife Indicators (tracks, scat, nests)



Spring 2009



Spring 2008

RAINFALL DATA 2008-2009

Monthly Precipitation
MIAMI KENDALL TAMiami
August 08 - July 2009

