

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:
June 5-7, 2005**

**Submitted:
June 2005**

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, sawgrass 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 over a five-year period. The vegetative success criteria outlined in the Draft Pennsuco Memorandum of Agreement (MOA) requires that after five-years: 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"

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 onto 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 vegetation present.

Photographs of the 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 was 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 in the transect. 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 was 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
June 4-5 2005

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 swamp fern (*Blechnum serrulatum*) 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 trees (*Melaleuca quinquenervia*), and consisted of herbicidal treatment and a physical removal program, followed by a controlled burn.

Observations from June 4, 2005 monitoring

Throughout the transect dead punk tree saplings and trees were observed. Between points A1 and A12 many punk tree (*Melaleuca quinquenervia*) saplings were manually removed, indicating recent control efforts. After point A12, there were numerous punk tree saplings throughout the transect.

The entire transect was observed to have standing water. No macrofauna or indicators of wildlife were noted.

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

- In the submerged aquatics layer only, 100 percent open/void.
- In the herbaceous species layer, 22 percent live saw grass, 13 percent dead saw grass, 3 percent live punk tree (*Melaleuca quinquenervia*), 2 percent dead punk tree, 1 percent Southern Swamp Lily (*Crinum americanum*), 5 percent Capillary Hairsedge (*Bulbostylis ciliataefolia*), 3 percent Tracy's Beak Rush (*Rhynchospora tracyi*), and 2 percent Swamp Fern (*Blechnum serrulatum*).
- In the sapling/vine layer, 100 percent open/void.
- In the overstory layer, 100 percent open/void.

TRANSECT "A"

Total Length 5280'

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
Bladderwort	<i>Utricularia purpurea</i>	0.0%	0.0%
Ludwigia	<i>Ludwigia repens</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>	22.3%	22.3%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	14.2%	13.0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	1.8%	(2.5%)
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	2.2%	1.8%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0.7%	0.5%
Southern Swamp Lily	<i>Crinum americanum</i>	1.3%	1.1%
Pickeralweed	<i>Pontederia lanceolata</i>	0.0%	0.2%
Yellowtops	<i>Flaveria linearis</i>	0.0%	0.0%
Arrowhead	<i>Sagittaria graminea</i>	0.2%	0.0%
Floating-Heart	<i>Nymphoides aquatica</i>	0.4%	0.1%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	6.3%	5.3%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	2.5%	3.0%
Button Bush	<i>Cephalanthus occidentalis</i>	0.0%	0.0%
Maiden-Cane	<i>Panicum hemitumum</i>	0.0%	0.0%
Shield Fern	<i>Thelypteris kunthii</i>	0.0%	0.0%
Swamp Fern	<i>Blechnum serrulatum</i>	1.3%	1.7%
Elm	<i>Trema micrantha</i>	0.0%	0.0%
Dead Biomass	N/A	6.9%	6.8%
Open Water/Mud/Void	N/A	40.0%	41.6%
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%
Elm	<i>Trema micrantha</i>	0.0%	0.0%
TBD	N/A	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



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

A-1

STATION

0+00

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacoda caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	20%	15%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickelweed	<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>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>	40%	50%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	40%	0%
Open Water/Mud/Void	N/A	0%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-2

STATION

1+82

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/4/2005 % Coverage
Water-Hyssops	<i>Bacoda caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	20%
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%
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>	10%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	35%	50%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

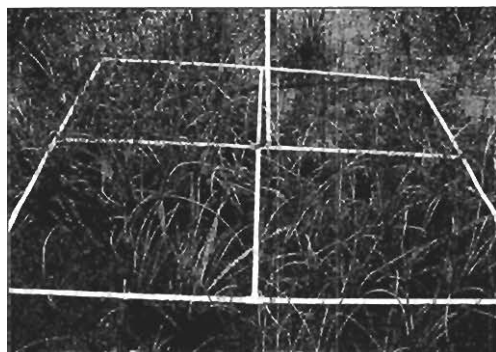
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: 1 melaleuca alive

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-3

STATION

3+64

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/4/2005 % Coverage
Water-Hyssops	<i>Bacoda caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	65%	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%
Pickereelweed	<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%	30%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	10%
Open Water/Mud/Void	N/A	0%	50%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

A-4

STATION

5+46

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% Coverage	% Coverage
Water-Hyssops	<i>Bacoda caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	1%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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>Bulbosylis ciliataefolia</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	5%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	9%	10%
Open Water/Mud/Void	N/A	85%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

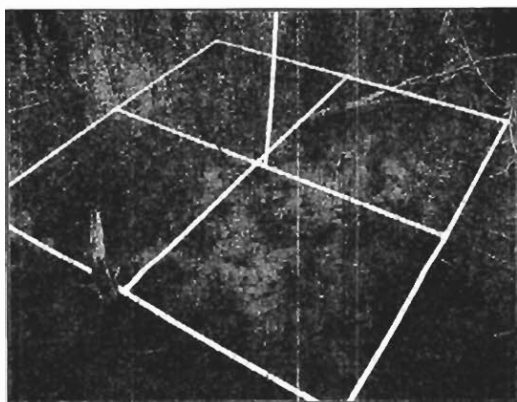
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT A-5

STATION 7+28

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacoda caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	35%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	25%	25%
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%
Pickernelweed	<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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	35%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

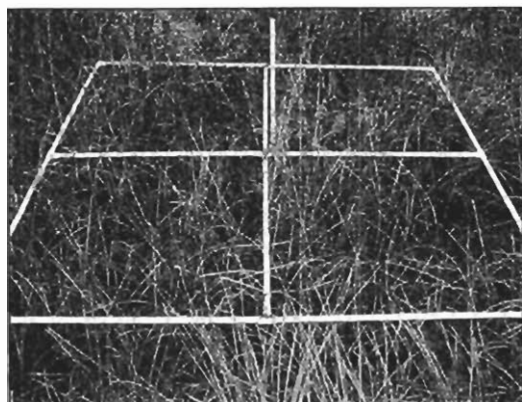
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

A-6

STATION

9+10

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/4/2005 % Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	15%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	10%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	3%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	20%	25%
Pickereleweed	<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%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	45%	37%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

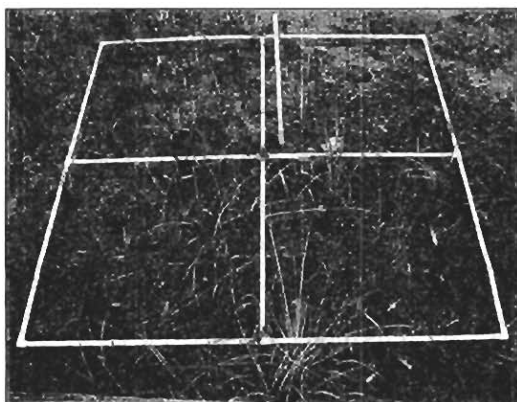
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



10+92

6/4/2005

TOTAL**TOTAL****TOTAL****TOTAL****TOTAL****TOTAL****TOTAL**

Water Level / Soil Moisture

3" surface water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-8

STATION

12+74

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	20%	25%
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%
Pickereelweed	<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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	35%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

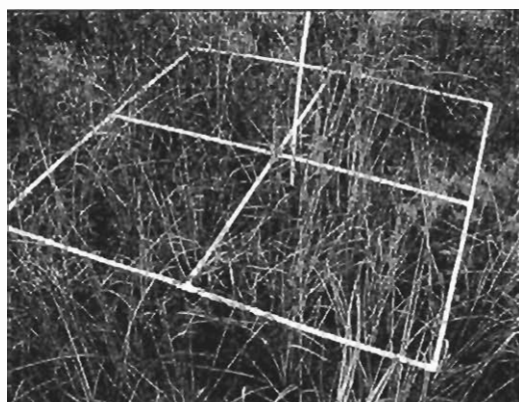
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

A-9

STATION

14+56

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	15%
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%
Pickereelweed	<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>	3%	1%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	47%	44%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

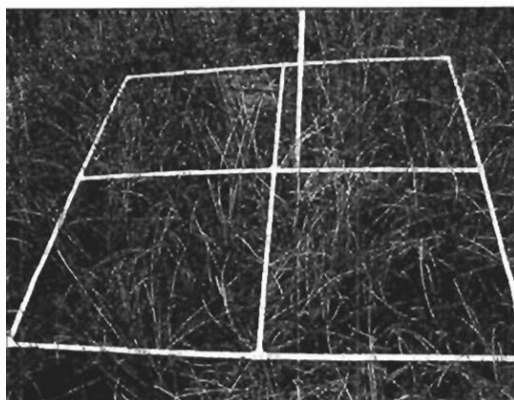
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-10

STATION

16+38

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	20%	20%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	3%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	1%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	5%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	3%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	10%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	10%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	26%	12%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

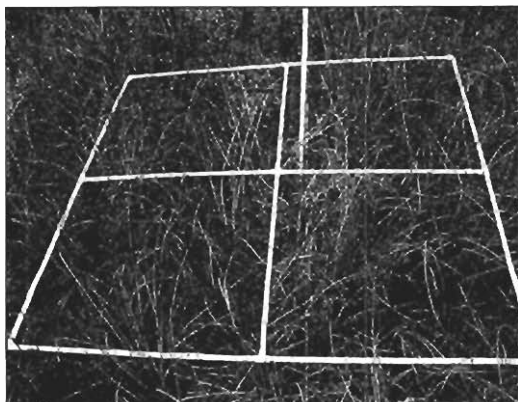
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

A-11

STATION

18+20

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	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>	35%	40%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	10%
Open Water/Mud/Void	N/A	65%	50%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

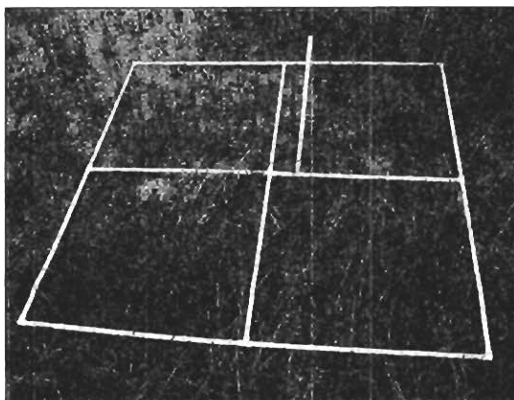
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuo Monitoring Project - Data Form

TRANSECT / POINT

A-12

STATION

20+02

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	65%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	40%	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>	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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	5%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

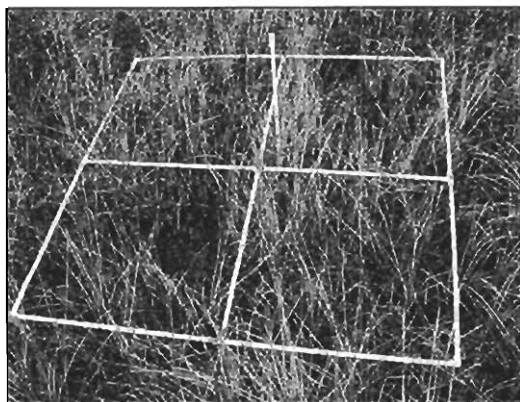
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-13

STATION

21+84

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	15%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	15%	10%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	15%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

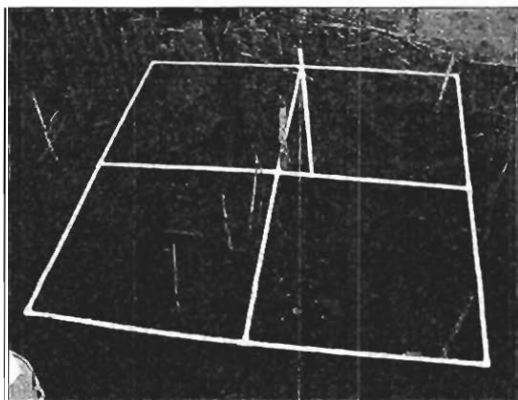
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuo Monitoring Project - Data Form

TRANSECT / POINT

A-14

STATION

23+66

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	60%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	30%	25%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	1%	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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	14%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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:

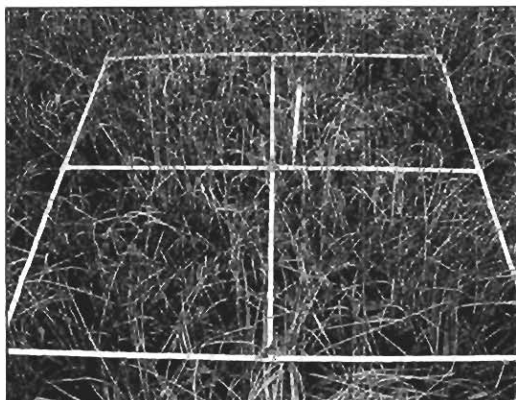
Water Level / Soil Moisture

3" surface water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

none



Pennsco Monitoring Project - Data Form

TRANSECT / POINT

A-15

STATION

25+48

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	15%
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%
Pickereelweed	<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>	45%	50%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	30%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

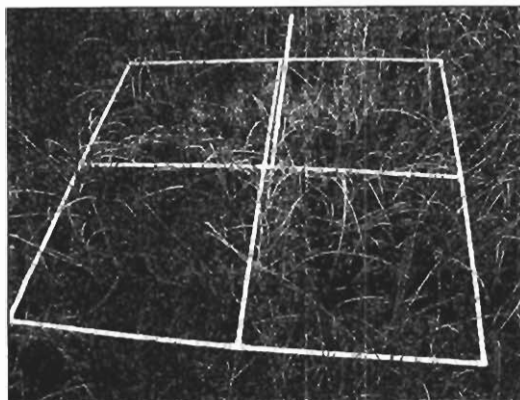
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-16

STATION

27+30

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	15%	15%
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%
Pickerselweed	<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>	45%	35%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	35%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

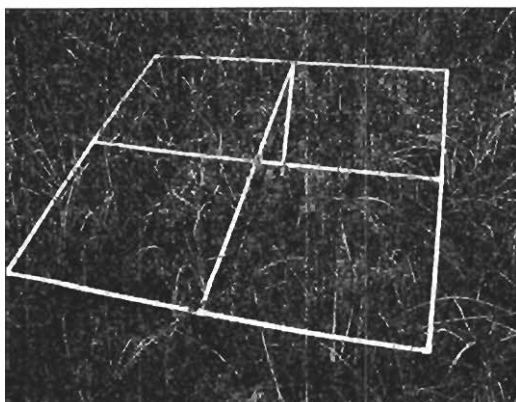
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: 1 melaleuca alive

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

A-17

STATION

29+12

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	25%
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>	1%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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%	3%
Capillary Hairsedge	<i>Bulbosylis ciliataefolia</i>	10%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	44%	47%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

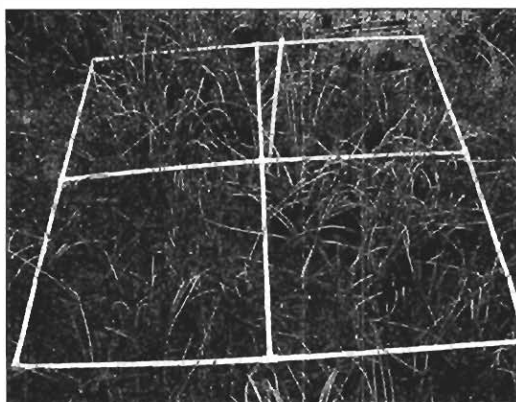
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

A-18

STATION

30+94

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	5%	5%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	3%
Pickereelweed	<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%	30%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	15%
Open Water/Mud/Void	N/A	75%	47%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

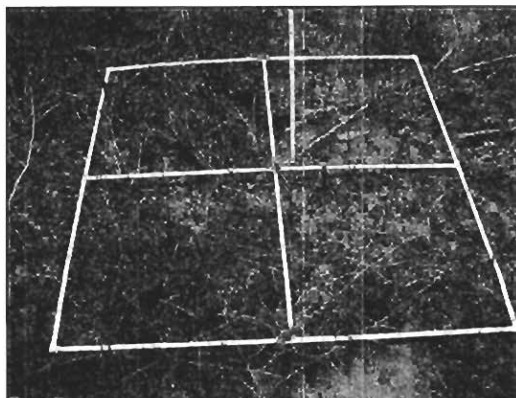
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-19

STATION

32+76

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	60%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	30%	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%
Pickereelweed	<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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	5%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

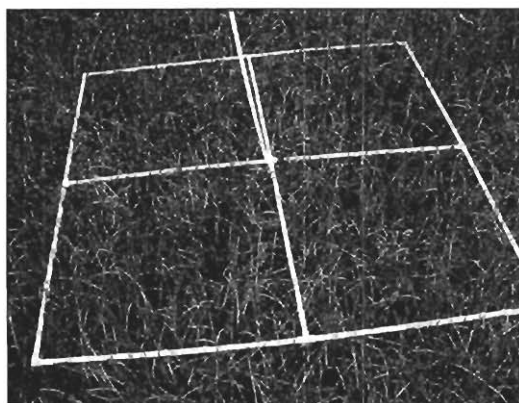
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-20

STATION

34+58

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	60%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	25%	30%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	1%	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%
Pickereelweed	<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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	24%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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: 1 melaleuca alive

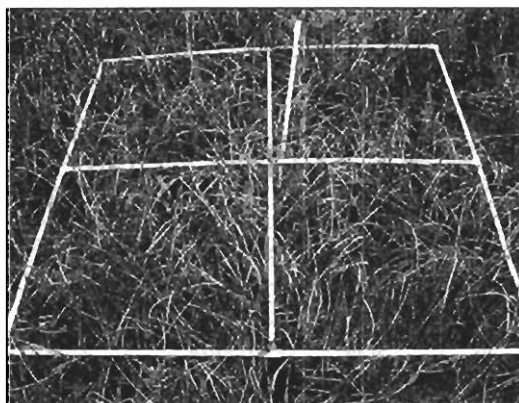
Water Level / Soil Moisture

3" surface water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

none



Pennsuo Monitoring Project - Data Form

TRANSECT / POINT

A-21

STATION

36+40

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	30%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	3%	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%
Pickeralweed	<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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	57%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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:

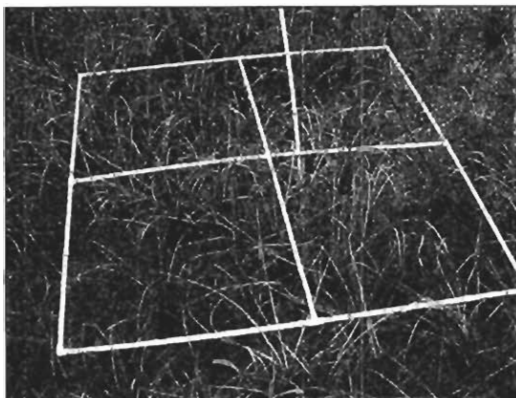
Water Level / Soil Moisture

3" surface water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

none



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-22

STATION

38+22

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	10%	10%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	2%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	5%	15%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	35%	30%
Open Water/Mud/Void	N/A	48%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

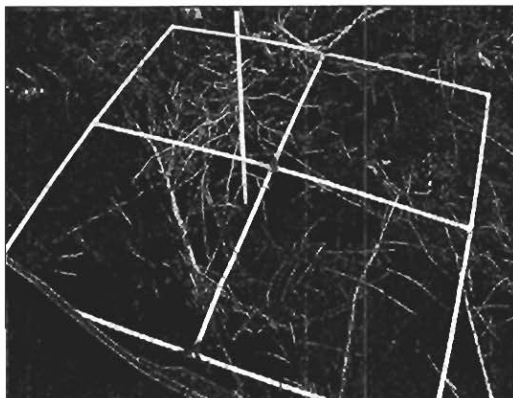
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-23

STATION

40+04

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	10%	25%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	20%	0%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickernelweed	<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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	10%	25%
Open Water/Mud/Void	N/A	50%	50%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-24

STATION

41+86

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	5%	5%
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>	3%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	10%	10%
Open Water/Mud/Void	N/A	77%	85%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-25

STATION

43+68

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	5%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	3%	5%
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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	10%	15%
Open Water/Mud/Void	N/A	67%	80%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

A-26

STATION

45+50

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	5%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	10%	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>	5%	0%
Pickereleweed	<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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	5%	15%
Open Water/Mud/Void	N/A	50%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

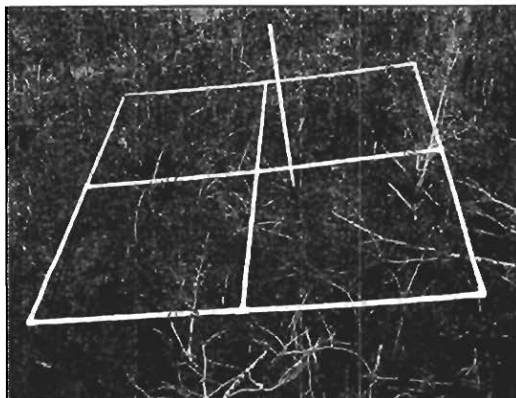
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-27

STATION

47+32

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	2%	3%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	5%	5%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickeralweed	<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%	15%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	15%	20%
Open Water/Mud/Void	N/A	58%	57%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

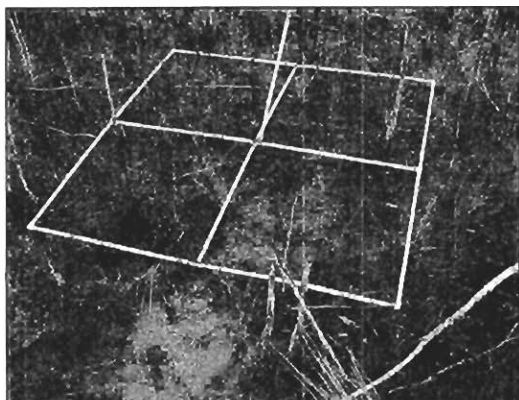
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-28

STATION

49+14

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	35%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	5%	5%
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%
Pickerselweed	<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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	5%
Open Water/Mud/Void	N/A	25%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

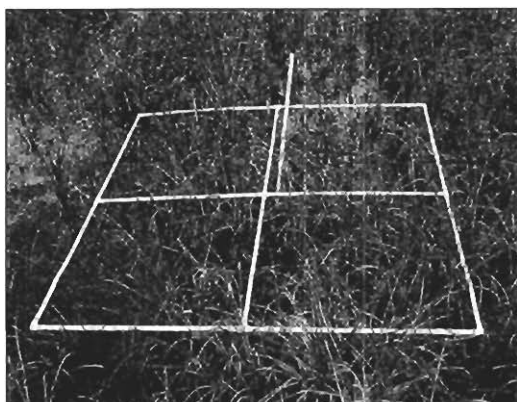
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-29

STATION

50+96

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	10%	10%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	8%	15%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	10%
Bushy Bluestem	<i>Andropogon glomeratus</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickernelweed	<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>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%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	72%	25%
Open Water/Mud/Void	N/A	10%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

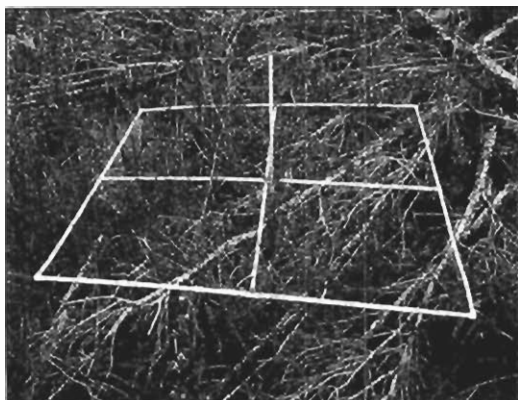
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

A-30

STATION

52+78

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Water-Hyssops	<i>Bacopa caroliniana</i>	0%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</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>	15%	10%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	3%	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%
Pickereelweeds	<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>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 serrulanum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	37%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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:

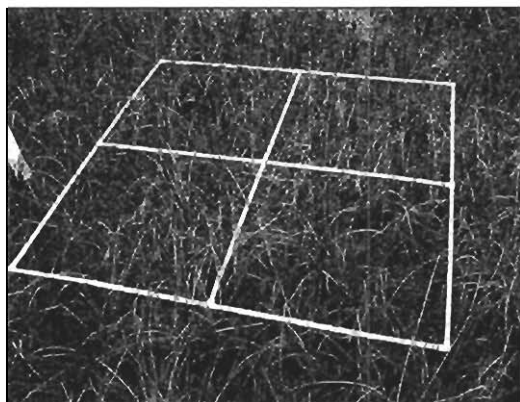
Water Level / Soil Moisture

3" SW

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

none



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. During the recent monitoring it was observed that the saw grass is recovering from the burn and gradually growing back. All PVC pipes were replaced in the transect from the recent burn.

Observations from June 4, 2005 monitoring

The entire transect was observed to have standing water. At the four data collection locations (B7, B14, B21, and B28) the water was two to ten inches in depth. One Cuban frog and grasshopper were noted in the transect.

Most of the punk tree vegetative communities were dead, due to enhancement efforts, which called for eradication of exotic and invasive species.

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

- In the submerged aquatics layer, 100 percent open/void.
- In the herbaceous species layer, 25 percent alive saw grass, 6 percent dead saw grass, 2 percent punk tree, Button Bush (*Cephalanthus occidentalis*), and Ceaser Weed (*Urena lobata*). 3 percent Southern Swamp Lily (*Crinum americanum*) and Arrowhead (*Sagittaria graminea*).
- In the sapling/vine layer, 100 percent open/void.
- In the overstory layer, 100 percent open/void.

Pennsuco Monitoring Project - Summary Sheet

TRANSECT

"B"

Total Length

5280'

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/4/2005 % 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%
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>	21.3%	25.3%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	6.2%	5.8%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.2%	0.5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	1.7%	2.0%
Southern Swamp Lily	<i>Crinum americanum</i>	2.0%	2.8%
Pickerelweed	<i>Pontederia lanceolata</i>	0.0%	0.0%
Yellowtops	<i>Flaveria linearis</i>	0.0%	0.0%
Arrowhead	<i>Sagittaria graminea</i>	2.0%	2.5%
Floating-Heart	<i>Nymphoides aquatica</i>	0.2%	0.0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0.0%	0.2%
Cattail	<i>Typha latifolia</i>	0.0%	0.0%
Button Bush	<i>Cephalanthus occidentalis</i>	0.0%	2.2%
Maiden-Cane	<i>Panicum hemitomum</i>	2.2%	0.0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	3.5%	0.0%
Swamp Fern	<i>Blechnum serrulatum</i>	0.0%	0.0%
Elm	<i>Trema micrantha</i>	0.0%	0.0%
Ceaser Weed	<i>Urena lobata</i>	0.0%	1.7%
Open Water/Mud/Void	N/A	60.9%	56.7%
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%
Elm	<i>Trema micrantha</i>	0.0%	0.0%
TBD	N/A	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



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-1

STATION

0+00

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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>	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%
Pickerselweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	50%	50%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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:

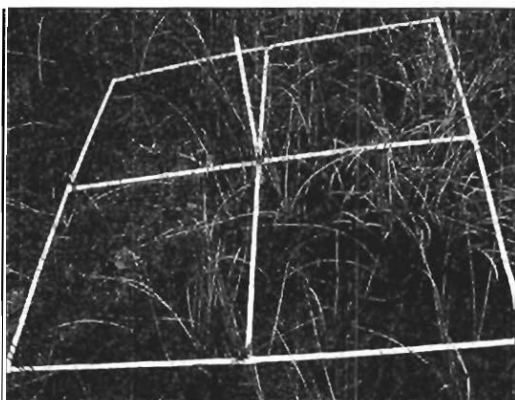
Water Level / Soil Moisture

2" Surface Water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

none



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-2

STATION

1+82

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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>	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%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	70%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

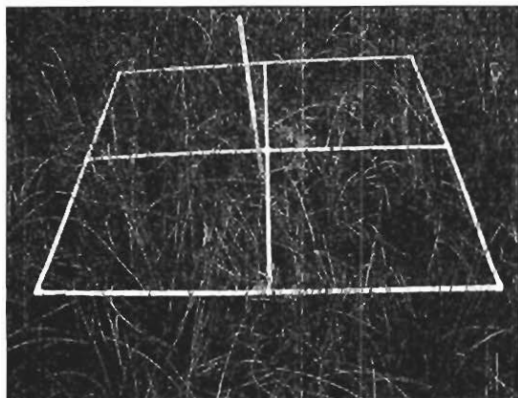
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-3

STATION

3+64

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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%	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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	5%	10%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	70%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-4

STATION

5+46

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	15%	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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	5%	10%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	80%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

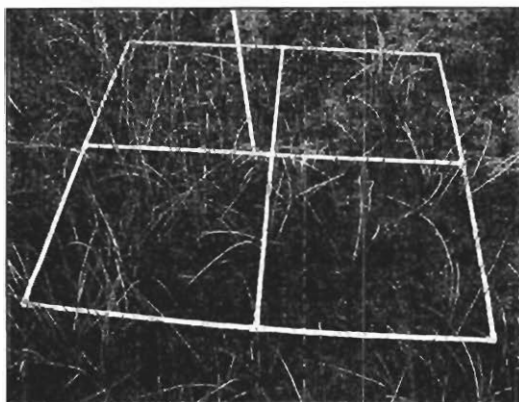
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuo Monitoring Project - Data Form

TRANSECT / POINT

B-5

STATION

7+28

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	5%
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%
Pickrelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

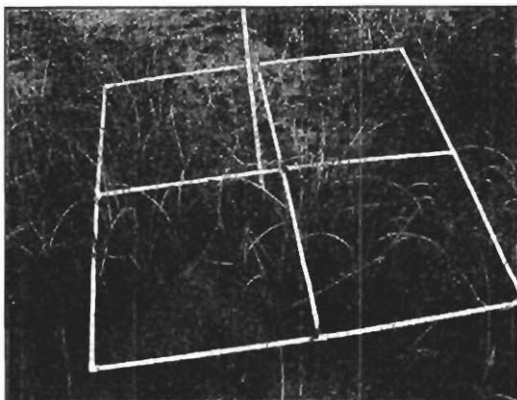
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-6

STATION

9+10

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	25%	5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	5%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	5%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	5%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	65%	65%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

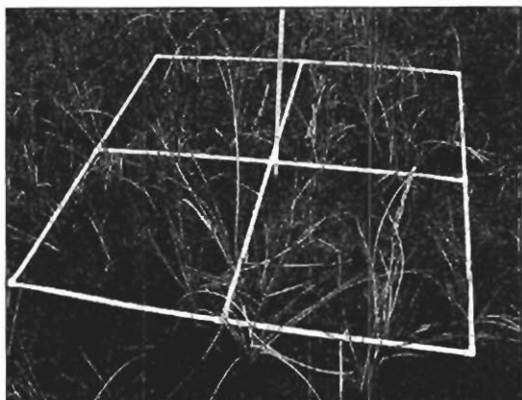
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-7

STATION

10+92

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/4/2005 % 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%
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%	5%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	20%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	10%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	15%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	25%	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%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	10%
Open Water/Mud/Void	N/A	60%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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:

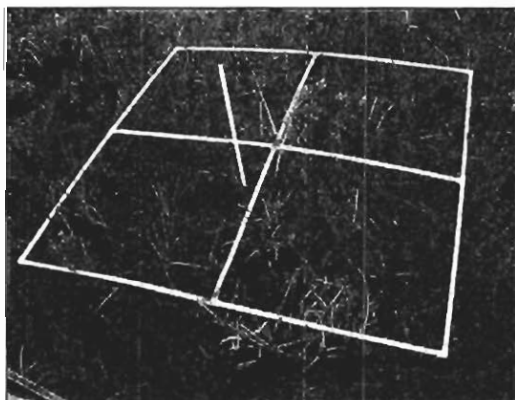
Water Level / Soil Moisture

5" Surface Water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

none



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-8

STATION

12+74

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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>	5%	10%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	15%	20%
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%	35%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	80%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

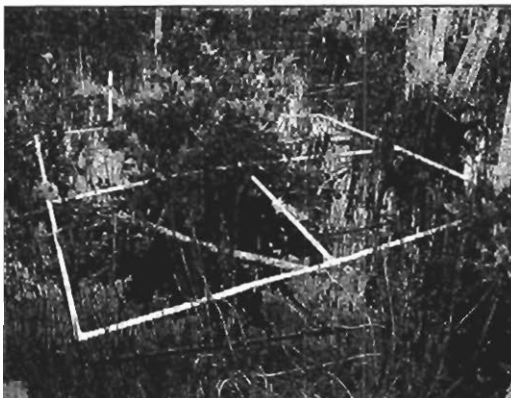
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-9

STATION

14+56

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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>	15%	5%
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%	15%
Floating-Heart	<i>Nymphoides aquatica</i>	5%	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%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	80%	80%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

B-10

STATION

16+38

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	25%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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%	5%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	15%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	30%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	10%
Open Water/Mud/Void	N/A	40%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-11

STATION

18+20

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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%	55%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	5%
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%
Pickernelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	70%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

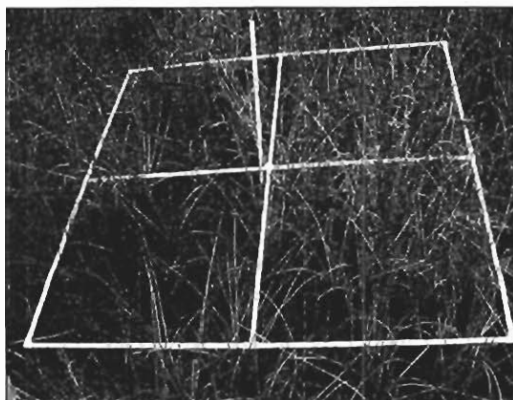
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-12

STATION

20+02

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	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%
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%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	10%
Open Water/Mud/Void	N/A	65%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

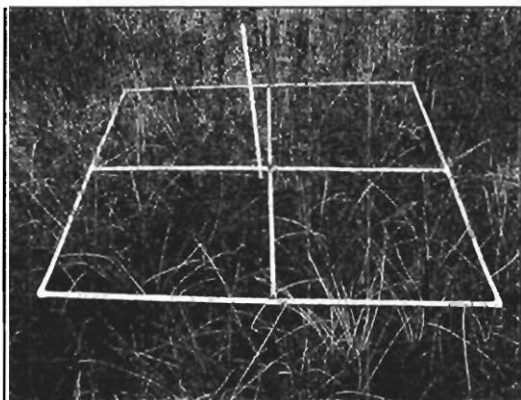
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-13

STATION

21+84

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
Open/Void	N/A	100%	100%
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	35%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	10%
Southern Swamp Lily	<i>Crinum americanum</i>	5%	0%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	55%	65%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

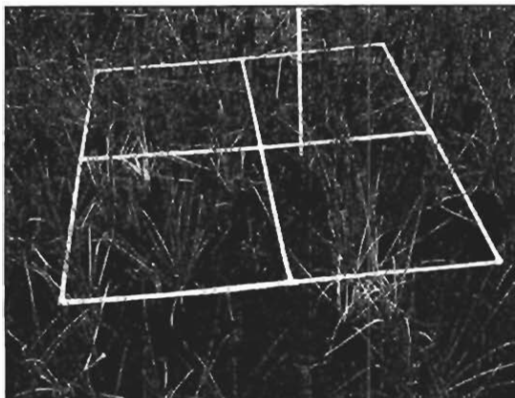
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-14

STATION

23+66

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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%	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%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	15%	10%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	45%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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:

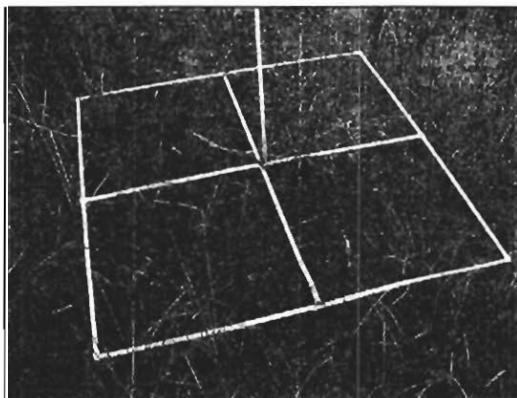
Water Level / Soil Moisture

5" Surface Water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Frog in pipe (PVC)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-15

STATION

25+48

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/4/2005 % 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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	3%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	5%
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%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	20%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	72%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

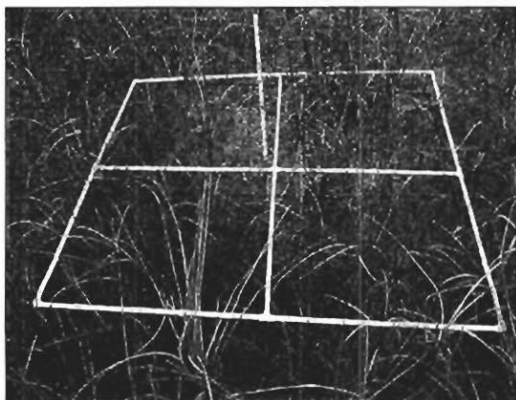
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-16

STATION

27+30

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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%	20%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	2%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	10%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	5%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	65%	68%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

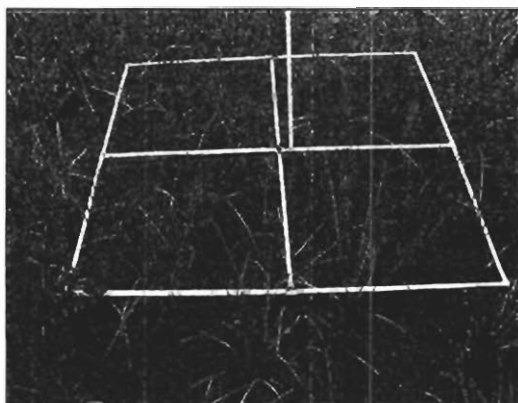
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-17

STATION

29+12

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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%	35%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	5%
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%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	65%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%

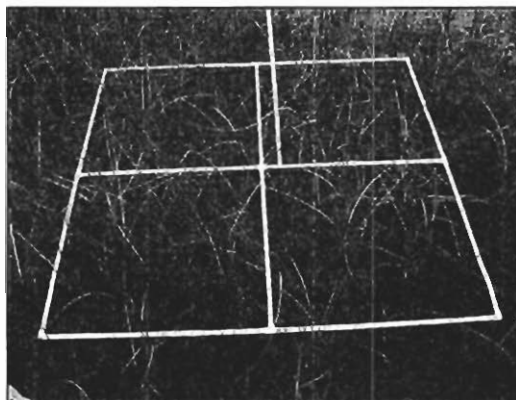
NOTES:

Water Level / Soil Moisture

10" Surface Water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-18

STATION

30+94

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	1%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickeralweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	65%	64%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

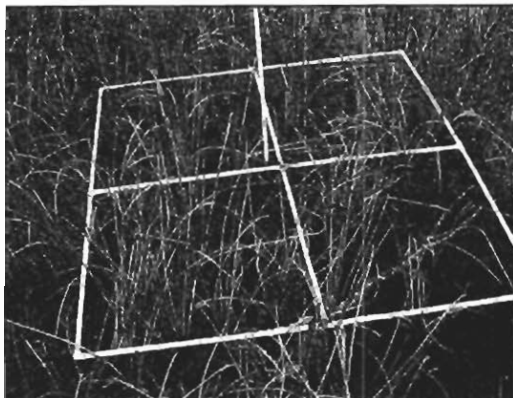
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-19

STATION

32+76

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/4/2005 % 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%
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%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	20%	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%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	45%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%

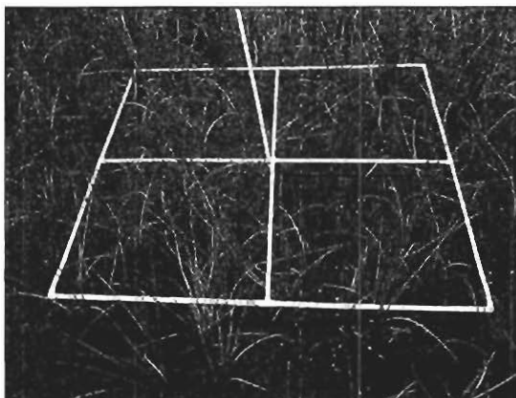
NOTES:

Water Level / Soil Moisture

10" Surface Water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-20

STATION

34+58

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/4/2005 % 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%
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>	5%	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%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	25%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	55%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

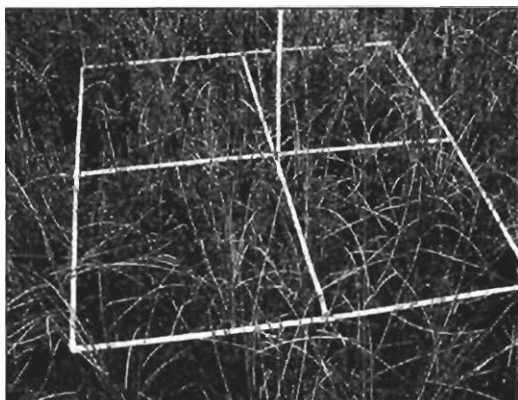
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-21

STATION

36+40

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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>	5%	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%	5%
Pickernelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	10%
Open Water/Mud/Void	N/A	60%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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:

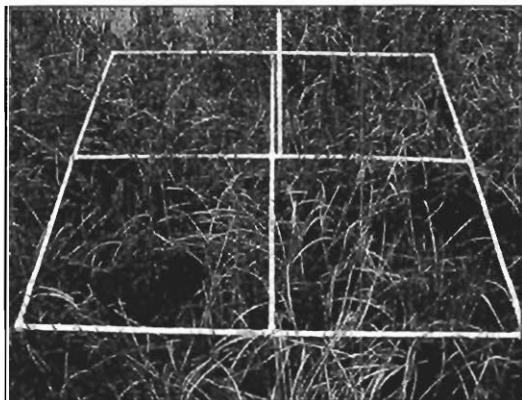
Water Level / Soil Moisture

5" Surface Water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

grasshopper



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-22

STATION

38+22

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	60%	40%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	5%
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%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	30%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

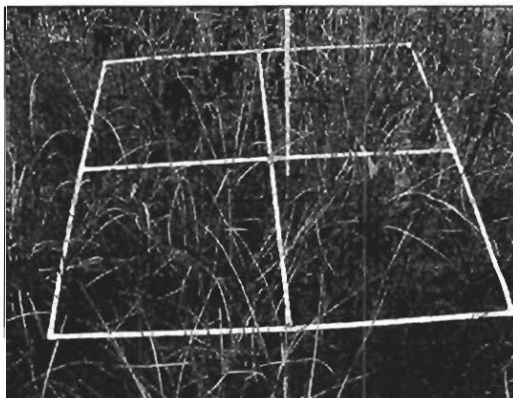
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-23

STATION

40+04

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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%	15%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	10%
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%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%

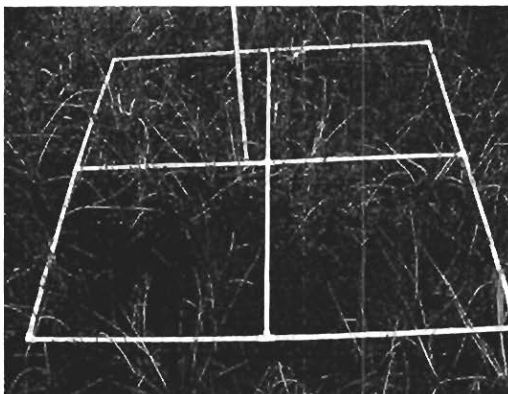
NOTES:

Water Level / Soil Moisture

8" Surface Water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-24

STATION

41+86

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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%	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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	5%	10%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus occidentalis</i>	0%	0%
Maiden-Cane	<i>Panicum hemitomum</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	30%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	65%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

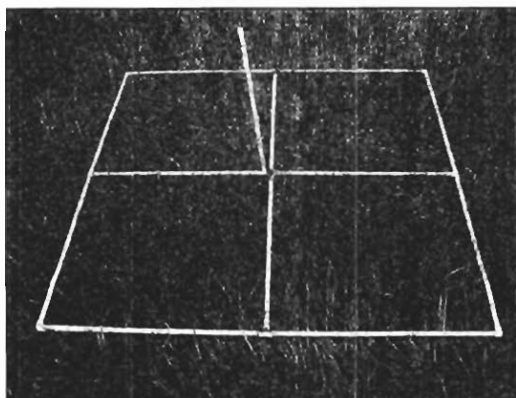
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-25

STATION

43+68

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	5%
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%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	60%	65%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

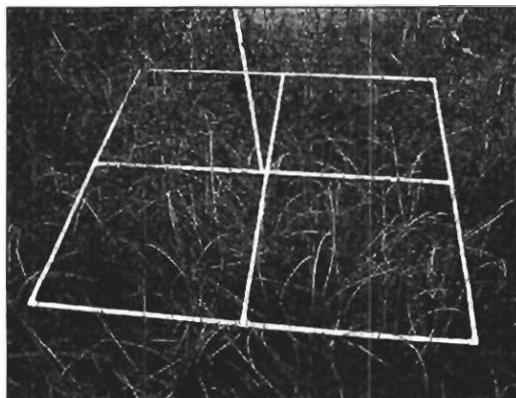
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-26

STATION

45+50

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	3%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	3%
Southern Swamp Lily	<i>Crinum americanum</i>	10%	15%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	65%	54%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

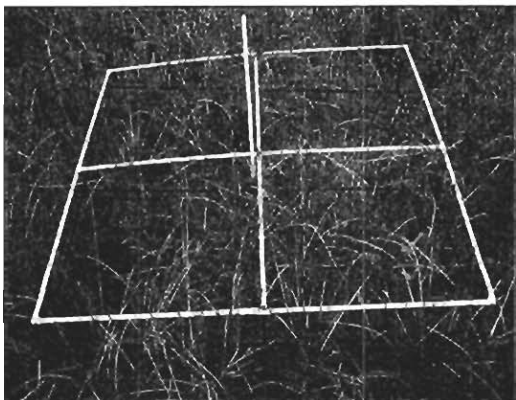
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-27

STATION

47+32

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	30%	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>	1%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	15%	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%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	29%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

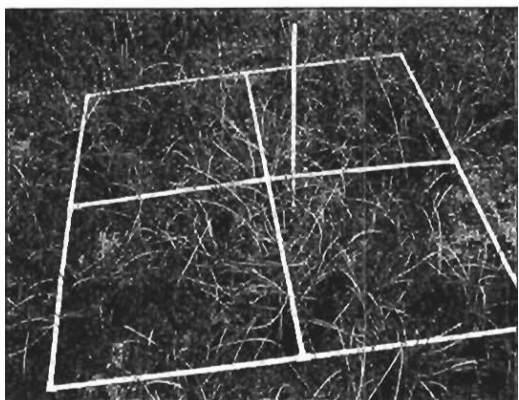
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-28

STATION 49+14

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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%	25%
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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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%
Cattail	<i>Typha latifolia</i>	0%	0%
Button Bush	<i>Cephalanthus 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%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	0%
Open Water/Mud/Void	N/A	80%	60%
Swamp Cabbage (Lettuce) 10			
TOTAL		100%	90%

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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

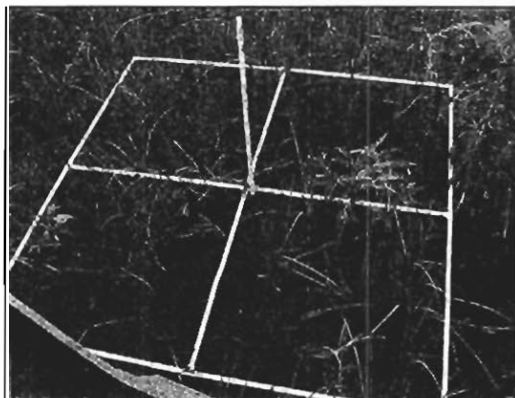
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-29

STATION

50+96

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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>	0%	10%
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%
Pickelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	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%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

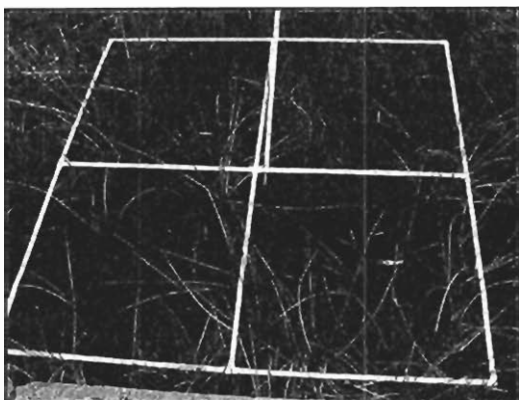
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

B-30

STATION

52+78

SUBMERGED AQUATICS

11/19/2004

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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	10%
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%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	5%	20%
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>	45%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Mallow	<i>Malvaceae spp.</i>	0%	10%
Open Water/Mud/Void	N/A	30%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

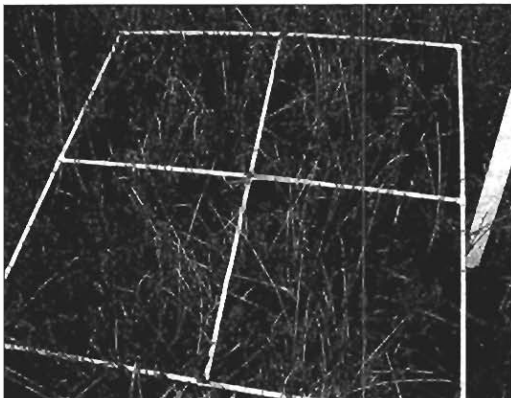
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



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*) 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. During the recent monitoring it was observed that the saw grass is recovering from the burn and gradually growing back. The majority of the PVC pipes were burned in the fire, therefore new plots were established along the transect.

Observations from June 4, 2005 monitoring

The vegetative community consisted primarily of saw grass, with 31% coverage. The majority of the transect resulted in 53% open-void due to the fire burning the vegetation.

The entire transect was observed to have standing water. At the four data collection locations (C7, C14, C21, and C30) the water was one to three inches in depth. One frog was observed in plot C29.

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

- In the submerged aquatics layer, 100 percent open/void.
- In the herbaceous species layer, 31 percent live saw grass (*Cladium jamaicense*), 10 percent dead saw grass (*Cladium jamaicense*), 2 percent swamp fern (*Blechnum serrulatum*), and 53 percent open/void.
- In the sapling/vine layer, 100 percent open/void.
- In the overstory layer, 100 percent open/void.

Pennsuco Monitoring Project - Summary Sheet

TRANSECT

"C"

Total Length

5280'

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	5.2%	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>	0.4%	0.0%
Open/Void	N/A	94.4%	100.0%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	16.3%	30.7%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	2.0%	10.0%
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>	0.7%	1.2%
Pickereelweed	<i>Pontederia lanceolata</i>	0.1%	0.2%
Yellowtops	<i>Flaveria linearis</i>	0.0%	0.3%
Arrowhead	<i>Sagittaria graminea</i>	0.0%	0.4%
Floating-Heart	<i>Nymphoides aquatica</i>	0.5%	0.2%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0.5%	0.0%
Cattail (Alive)	<i>Typha latifolia</i>	0.2%	0.0%
Cattail (Dead)	<i>Typha latifolia</i>	0.0%	0.0%
Button Bush	<i>Cephalanthus occidentalis</i>	0.0%	0.0%
Maiden-Cane	<i>Panicum hemitomonum</i>	0.0%	0.0%
Shield Fern	<i>Thelypteris kunthii</i>	1.0%	0.7%
Swamp Fern	<i>Blechnum serrulatum</i>	2.3%	2.2%
Elm	<i>Trema micrantha</i>	0.0%	0.0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0.1%	0.8%
Dead Biomass	N/A	0.0%	0.5%
Open Water/Mud/Void	N/A	76.2%	52.9%
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%
Elm	<i>Trema micrantha</i>	0.0%	0.0%
TBD	N/A	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%
Elm	<i>Trema micrantha</i>	0.5%	0.0%
Open/Void	N/A	99.5%	100.0%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

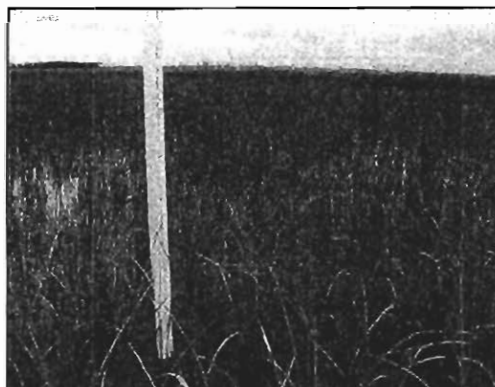
Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

0+00 Panoramic - Looking east



52+78 Panoramic - Looking West



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT C-1

STATION 0+00

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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%
Pickernelweed	<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%
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>	30%	20%
Swamp Fern	<i>Blechnum serrulatum</i>	70%	60%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	10%
Open Water/Mud/Void	N/A	0%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%
Elm	<i>Trema micrantha</i>	15%	0%
Open/Void	N/A	85%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-2

STATION

1+82

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	50%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Open/Void	N/A	50%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	80%	90%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	1%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	10%	0%
Pickernelweed	<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%
Cattail (Alive)	<i>Typha latifolia</i>	1%	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>Thehypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	8%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

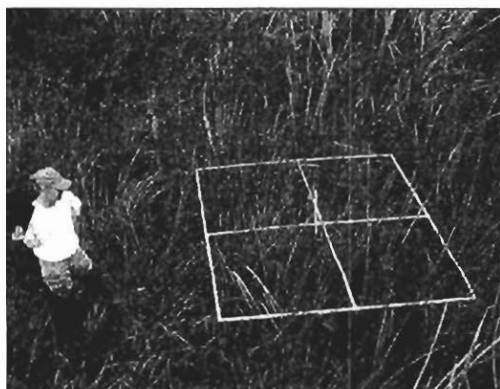
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-3

STATION

3+64

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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%	70%
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%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickernelweed	<i>Pontederia lanceolata</i>	1%	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%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	54%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

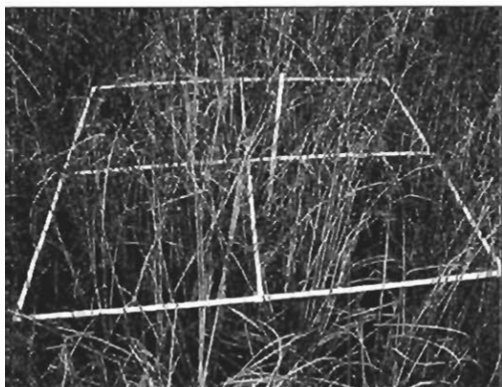
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-4

STATION

5+46

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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>	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>	0%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	5%
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%
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 hemitomon</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	5%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	60%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

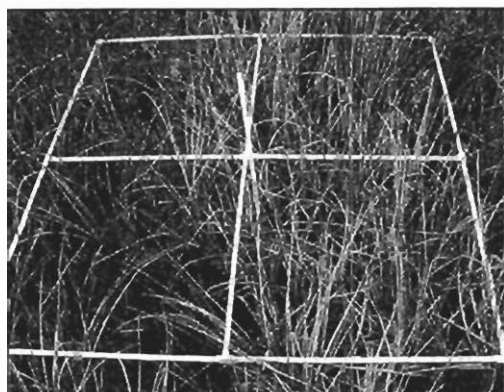
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-5

STATION

7+28

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% 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%
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>	5%	5%
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%
Pickrelweed	<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%
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 hemitomonum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	65%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-6

STATION

9+10

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% 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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	45%
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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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%
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 hemitomonum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	90%	50%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-7

STATION

10+92

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	40%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	10%	0%
Open/Void	N/A	50%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	25%	70%
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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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%
Cattail (Alive)	<i>Typha latifolia</i>	5%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	70%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

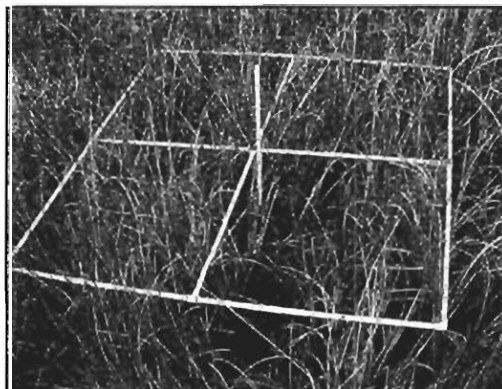
Water Level / Soil Moisture

3" Surface water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

None



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-8

STATION

12+74

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% 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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	55
Saw Grass (Alive)	<i>Cladium jamaicense</i>	45%	55%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	5%
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%
Pickernelweed	<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%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	50%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

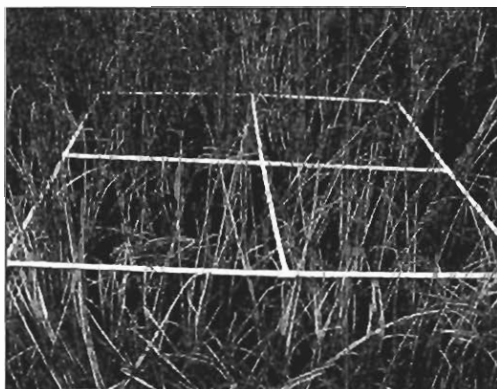
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-9

STATION

14+56

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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%	20%
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%
Southern Swamp Lily	<i>Crinum americanum</i>	5%	0%
Pickernelweed	<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%	5%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	60%	65%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

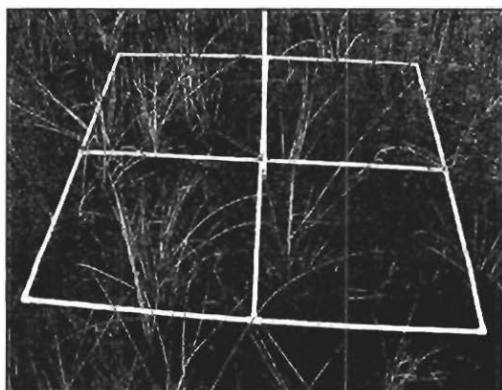
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: new plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-10

STATION

16+38

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	8%	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%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	15%
Pickereelweed	<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>	2%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	90%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

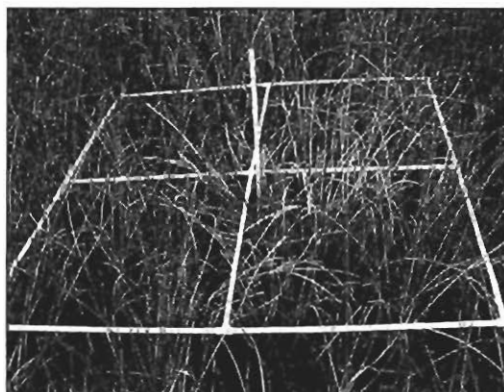
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-11

STATION

18+20

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	30%
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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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%	1%
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 hemitomon</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	90%	64%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

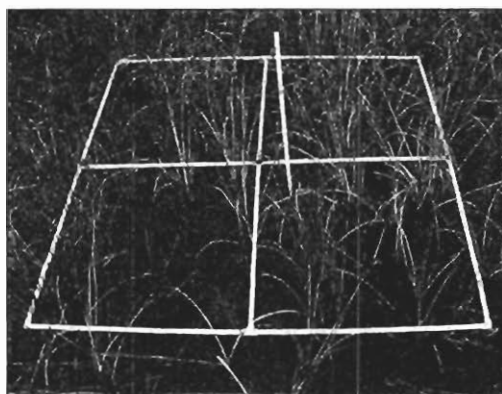
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-12

STATION

20+02

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% 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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	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%
Pickereelweed	<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%
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 hemitomonum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	85%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

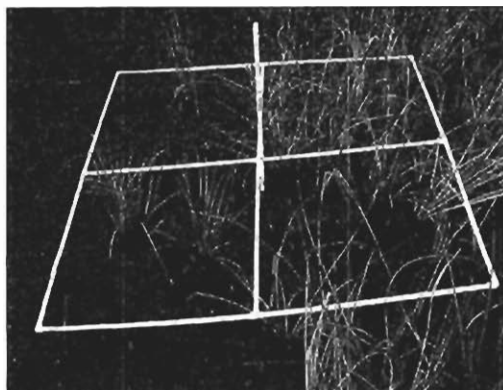
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-13

STATION

21+84

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% 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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	2%	20%
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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerselweed	<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%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	98%	65%
TOTAL		100%	100%

Yellow flower (rush, grass) 10

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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

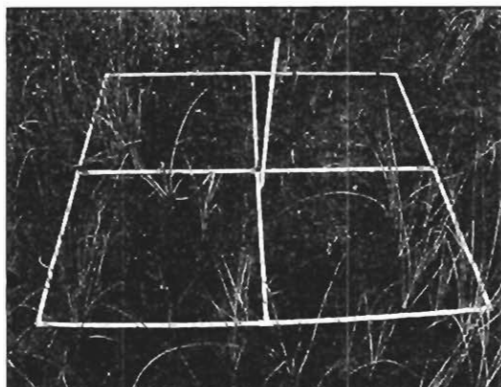
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-14

STATION

23+66

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% 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%
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%	30%
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%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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%
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 hemitomonum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	95%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot, recent burn

Water Level / Soil Moisture

3" Surface water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

none



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-15

STATION

25+48

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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%	30%
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%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickernelweed	<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%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	95%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

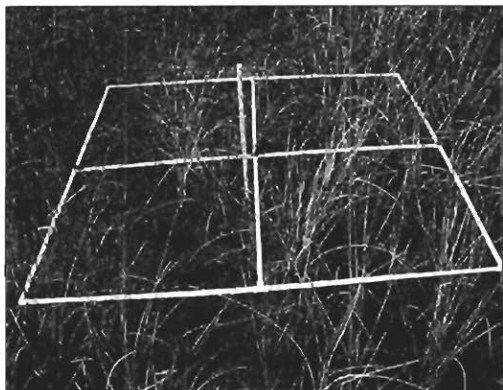
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-16

STATION

27+30

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	7%	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%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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%
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 hemitomonum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	93%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

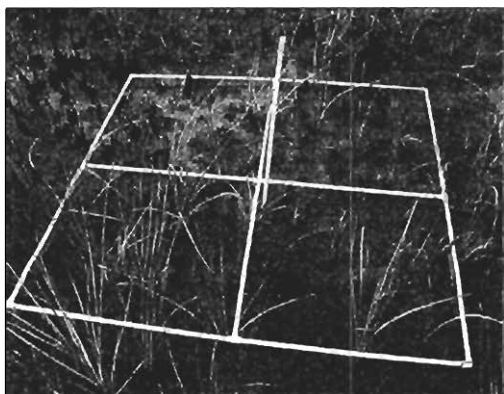
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-17

STATION

29+12

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% 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%
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%	15%
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%
Southern Swamp Lily	<i>Crinum americanum</i>	5%	0%
Pickereelweed	<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%
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 hemitomonum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	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	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

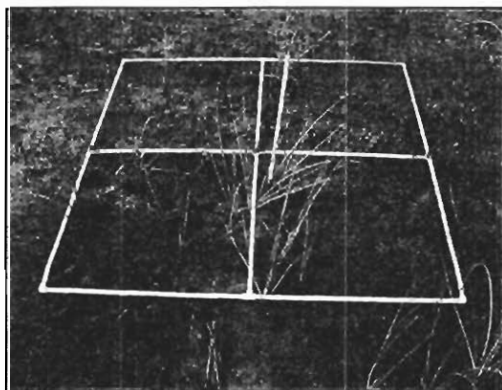
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-18

STATION

30+94

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	10%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Open/Void	N/A	90%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	4%	35%
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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	96%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

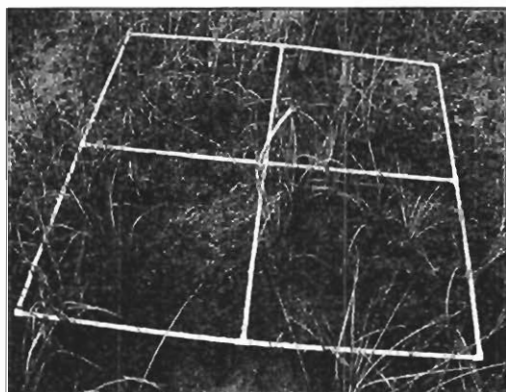
Water Level / Soil Moisture

1.5" Surface water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

none



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-19

STATION

32+76

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	15%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Open/Void	N/A	85%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	15%	15%
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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	10%
Pickeralweed	<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>Bulbosylis 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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	85%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

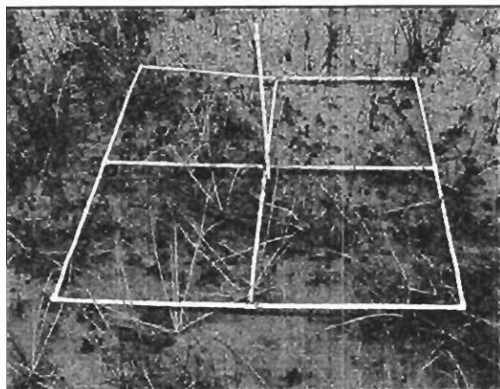
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-20

STATION

34+58

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/4/2005 % Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	15%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Open/Void	N/A	85%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	15%	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%
Pickernelweed	<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>	1%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	74%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

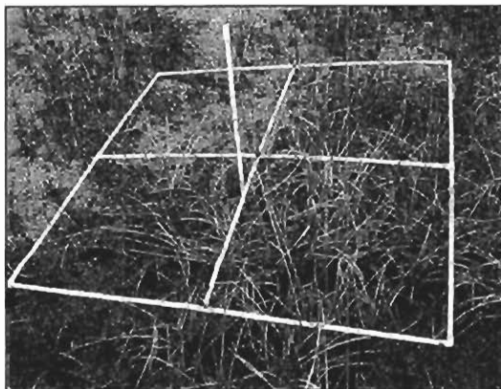
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-21

STATION

36+40

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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>	2%	0%
Open/Void	N/A	98%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	3%	25%
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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<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%	1%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	97%	69%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

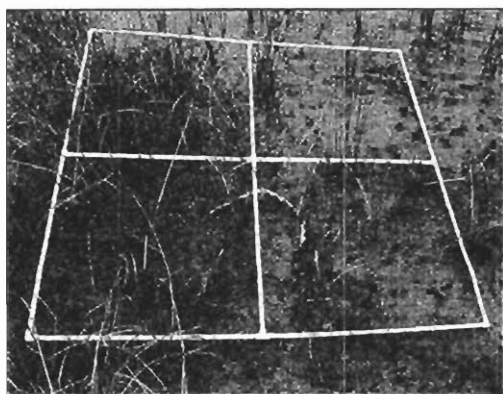
Water Level / Soil Moisture

3" Surface water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

none



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-22

STATION

38+22

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% 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%
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%	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%
Pickereelweed	<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>	2%	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 hemitomon</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	93%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

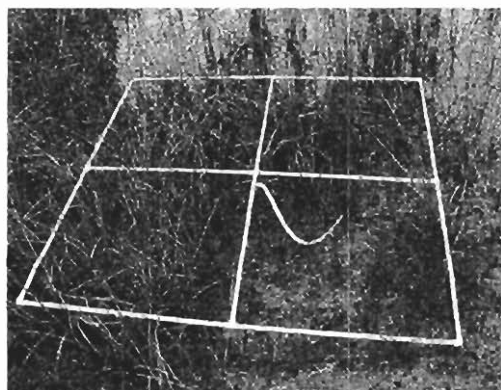
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-23

STATION

40+04

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	10%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Open/Void	N/A	90%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	15%	20%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	10%	5%
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%
Pickereelweed	<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%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	2%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	73%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

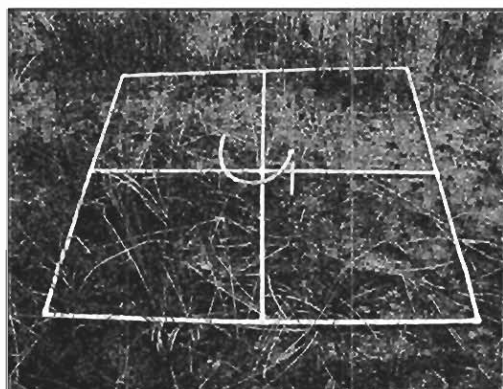
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-24

STATION

41+86

SUBMERGED AQUATICS

11/19/2004

6/4/2005

Common Name	Scientific Name	% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	5%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Open/Void	N/A	95%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	5%	10%
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%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	1%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	1%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	5%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	78%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

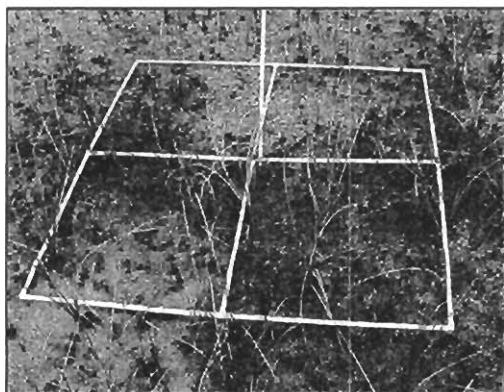
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-25

STATION

43+68

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% 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%
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%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	2%	5%
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%
Pickereelweed	<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%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	93%	65%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

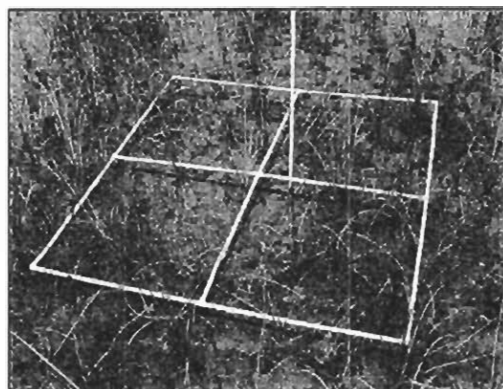
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-26

STATION

45+50

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/4/2005
		% Coverage	% Coverage
Mermaid Weed	<i>Proserpinaca palustris</i>	10%	0%
Bladderwort	<i>Utricularia foliosa</i>	0%	0%
Bladderwort	<i>Utricularia purpurea</i>	0%	0%
Ludwigia	<i>Ludwigia repens</i>	0%	0%
Open/Void	N/A	90%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	20%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	5%
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>	1%	0%
Pickernelweed	<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%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	5%
Open Water/Mud/Void	N/A	84%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

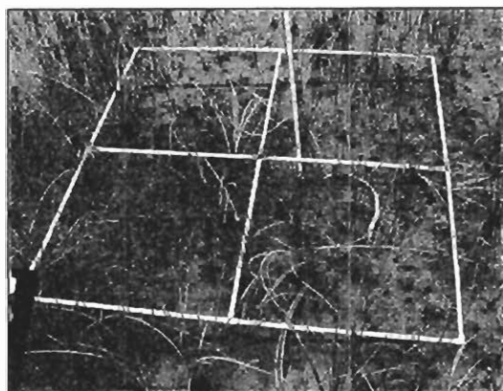
Water Level / Soil Moisture

3" Surface water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

None



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-27

STATION

47+32

SUBMERGED AQUATICS

11/19/2004

6/4/2005

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%
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%	20%
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%
Southern Swamp Lily	<i>Crinum americanum</i>	1%	0%
Pickerselweed	<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%
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 hemitomonum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	79%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

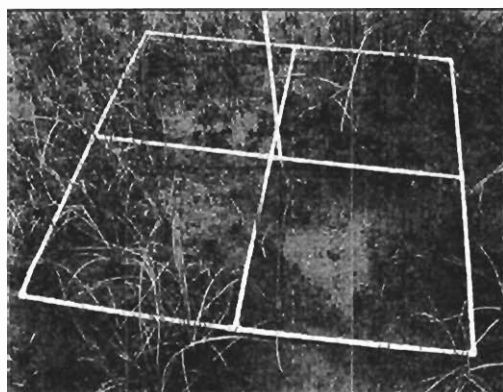
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-28

STATION

49+14

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/4/2005 % 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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	15%
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>	0%	0%
Pickernelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	10%
Floating-Heart	<i>Nymphoides aquatica</i>	2%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	25%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	88%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

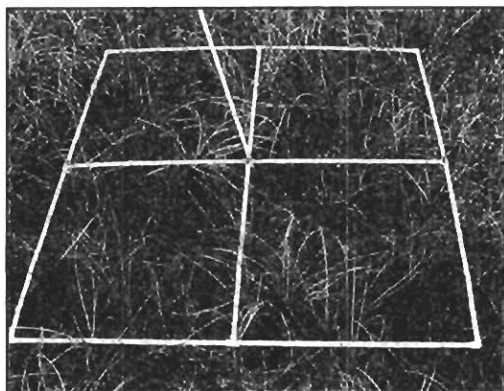
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-29

STATION

50+96

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
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%	15%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	3%	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%	10%
Pickereelweed	<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>	3%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	10%	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 hemitomonum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	79%	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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

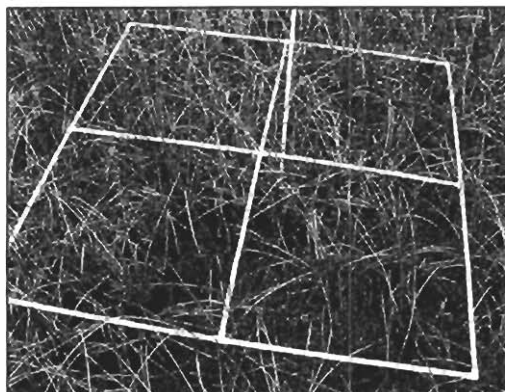
NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

frog



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

C-30

STATION

52+78

SUBMERGED AQUATICS

		11/19/2004	6/4/2005
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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	30%
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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	1%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria graminea</i>	0%	1%
Floating-Heart	<i>Nymphoides aquatica</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 hemitomonum</i>	0%	0%
Shield Fern	<i>Thelypteris kunthii</i>	0%	0%
Swamp Fern	<i>Blechnum serrulatum</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	2%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	88%	63%
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%
Elm	<i>Trema micrantha</i>	0%	0%
TBD	N/A	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

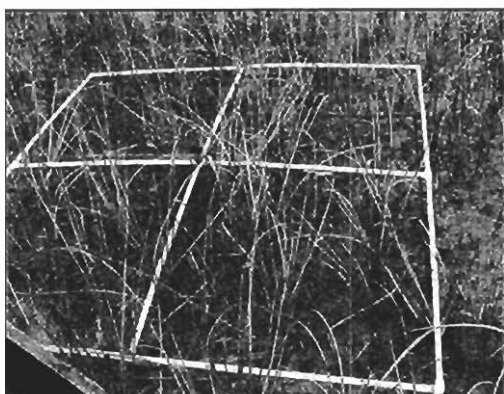
NOTES:

Water Level / Soil Moisture

2" Surface water

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 - Pennsuco 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 DR30 (GPS coordinates Latitude 25° 47' 45.57", Longitude 80° 28' 09.88"), (Figure 6). One community type, wet prairie primarily dominated by dominated by Saw grass (*Cladium jamaicense*) in the herbaceous layer and Punk trees (*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 transect was established at approximately equally spaced intervals of 150 feet along the transect. The transect was shortened due to dense upland area which was not easily accessible.

A fire burned throughout this transect in the summer of 2004. The majority of the PVC pipes were burned in the fire; therefore most of the PVC pipes were replaced at time of monitoring. The existing plots for 22-29 could not be located, therefore no data was collected. During the fall 05' monitoring, all new plots will be established.

Observations from June 5, 2005 monitoring

The vegetative community consisted primarily of saw grass with only 13% coverage. The majority of the transect resulted in 45% open-void due to the fire burning the vegetation.

The entire transect was observed to have standing water. At the four data collection locations (DR7, DR14, DR21, and DR28) the water was one to three inches in depth.

No data was collected for points DR22-DR29. Eight plots were not accounted for, therefore in the summary data sheet for Transect DR, the percentages does not equal to 100% in all four layers.

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

- In the submerged aquatics layer, 100 percent open/void.
- In the herbaceous species layer, 13 percent live saw grass (*Cladium jamaicense*), 5 percent dead saw grass (*Cladium jamaicense*), 7 percent Tracy's Beak Rush (*Rhynchospora tracyi*), and 45 percent open/void.
- In the sapling/vine layer, 1 percent alive and dead Punk Tree (*Melaleuca quinquenervia*).
- In the overstory layer, 100 percent open/void.

TRANSECT "DR"

Total Length 5280'

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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>	0.4%	0.0%
Open/Void	N/A	99.6%	78.6%
TOTAL		100%	79%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	7.4%	13.4%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	2.1%	5.2%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.5%	1.2%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	1.3%	1.1%
Southern Swamp Lily	<i>Crinum americanum</i>	2.7%	0.8%
Pickernelweed	<i>Pontederia lanceolata</i>	0.0%	0.0%
Yellowtops	<i>Flaveria linearis</i>	0.0%	0.0%
Arrowhead	<i>Sagittaria latifolia</i>	0.6%	0.2%
Floating-Heart	<i>Nymphoides aquatica</i>	0.0%	0.0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0.5%	0.0%
Cattail	<i>Typha latifolia</i>	0.0%	0.0%
Button Bush	<i>Cephalanthus occidentalis</i>	0.0%	0.0%
Maiden-Cane	<i>Panicum hemitomonum</i>	0.0%	0.0%
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>	6.6%	6.6%
Dead Biomass	N/A	0.0%	0.7%
Open Water/Mud/Void	N/A	78.3%	44.7%
TOTAL		100%	74%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0.6%	0.8%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0.0%	1.4%
Elm	<i>Trema micrantha</i>	0.0%	0.0%
Open/Void	N/A	99.4%	76.3%
TOTAL		100%	79%

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%	0.2%
Golden Fig	<i>Ficus Aurea</i>	0.0%	0.0%
Open/Void	N/A	100.0%	78.4%
TOTAL		100%	79%

NOTES:

Water Level / Soil Moisture

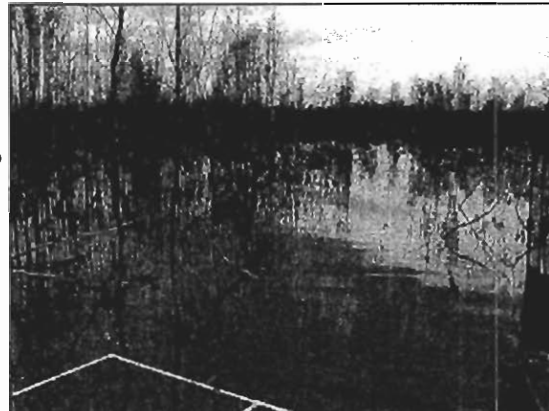
Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

0+00 Panoramic - Looking east



52+78 Panoramic - Looking West



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-1

STATION

0+00

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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%
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%	5%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	2%	35%
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%
Pickernelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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 hemitomon</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	78%	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%
Elm	<i>Trema micrantha</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:

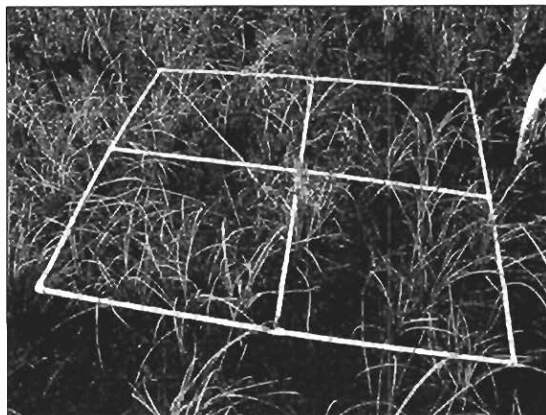
Water Level / Soil Moisture

3" Surface Water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

none



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

DR-2

STATION

1+82

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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%
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%	40%
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>	0%	1%
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 latifolia</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 hemitumum</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>	100%	0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	0%	54%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

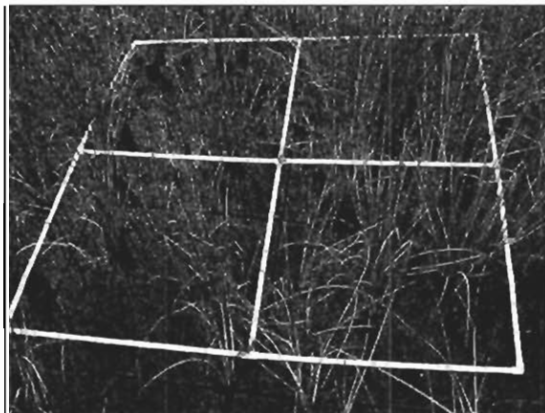
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-3

STATION

3+64

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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%
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%	40%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	1%	5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	2%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	1%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	77%	54%
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%
Elm	<i>Trema micrantha</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)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-4

STATION

5+46

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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%
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%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	2%	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>	5%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	73%	45%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	1%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	99%	100%
TOTAL		100%	100%

OVERSTORY

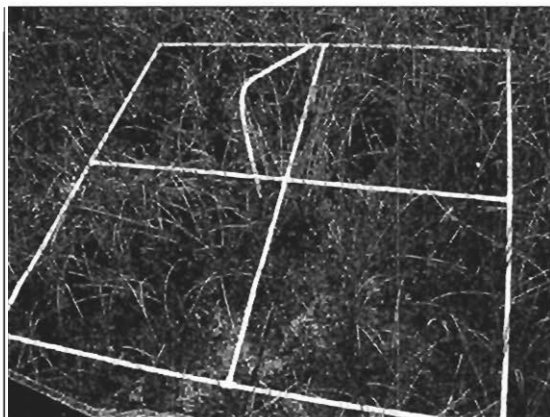
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: PVC Burned

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-5

STATION

7+28

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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%
Open/Void	N/A		100%
TOTAL		0%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>		40%
Saw Grass (Dead)	<i>Cladium jamaicense</i>		5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>		0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>		0%
Southern Swamp Lily	<i>Crinum americanum</i>		0%
Pickereelweed	<i>Pontederia lanceolata</i>		0%
Yellowtops	<i>Flaveria linearis</i>		0%
Arrowhead	<i>Sagittaria latifolia</i>		0%
Floating-Heart	<i>Nymphoides aquatica</i>		0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>		0%
Cattail	<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%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>		0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A		55%
TOTAL		0%	100%

SAPLING / VINE

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

OVERSTORY

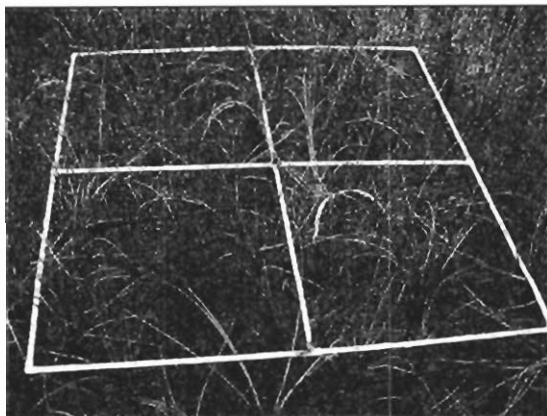
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>		0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>		0%
Golden Fig	<i>Ficus Aurea</i>		0%
Open/Void	N/A		100%
TOTAL		0%	100%

NOTES: PVC burned, need new one

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

DR-6

STATION

9+10

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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%
Open/Void	N/A		100%
TOTAL		0%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>		35%
Saw Grass (Dead)	<i>Cladium jamaicense</i>		5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>		0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>		0%
Southern Swamp Lily	<i>Crinum americanum</i>		0%
Pickereelweed	<i>Pontederia lanceolata</i>		0%
Yellowtops	<i>Flaveria linearis</i>		0%
Arrowhead	<i>Sagittaria latifolia</i>		0%
Floating-Heart	<i>Nymphoides aquatica</i>		0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>		0%
Cattail	<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%
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>		0%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A		60%
TOTAL		0%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>		5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>		5%
Elm	<i>Trema micrantha</i>		0%
Open/Void	N/A		90%
TOTAL		0%	100%

OVERSTORY

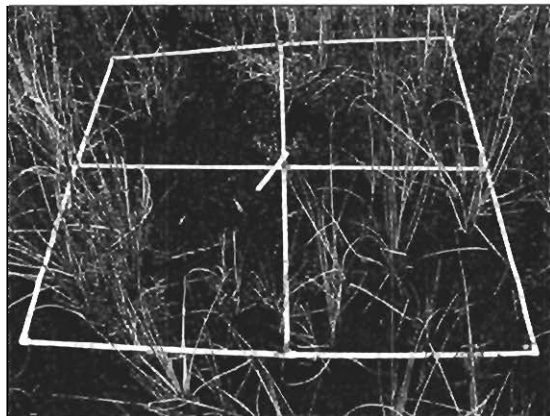
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>		0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>		0%
Golden Fig	<i>Ficus Aurea</i>		0%
Open/Void	N/A		100%
TOTAL		0%	100%

NOTES: PVC burned

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-7

STATION

10+92

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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%
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%	20%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	10%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	3%
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 latifolia</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	80%	67%
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%
Elm	<i>Trema micrantha</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%	5%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	95%
TOTAL		100%	100%

NOTES: PVC Burned

Water Level / Soil Moisture

2" Surface Water

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

none



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT DR-8

STATION 12+74

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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%
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%	20%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	5%
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%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%
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%	5%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	95%
TOTAL		100%	100%

OVERSTORY

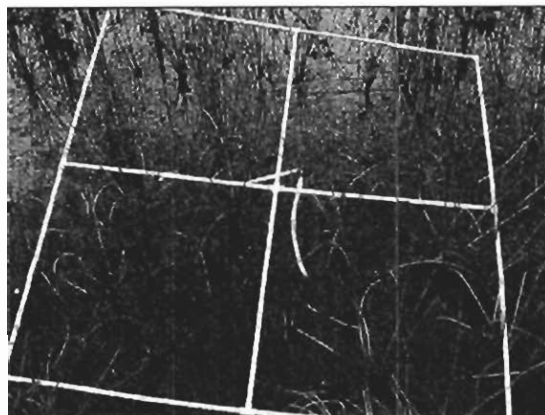
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: PVC Burned

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

DR-9

STATION

14+56

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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>	1%	0%
Open/Void	N/A	99%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	25%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	1%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	90%	69%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	3%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	97%
TOTAL		100%	100%

OVERSTORY

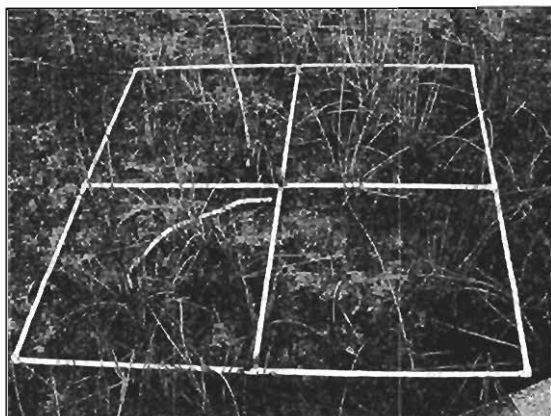
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: PVC Burned

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-10

STATION

16+38

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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>	3%	0%
Open/Void	N/A	97%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	15%	0%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	1%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickerselweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</i>	0%	5%
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%	20%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	84%	70%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	5%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	95%
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: Good PVC

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

DR-11

STATION

18+20

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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%
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%	10%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	2%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	3%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	93%	67%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

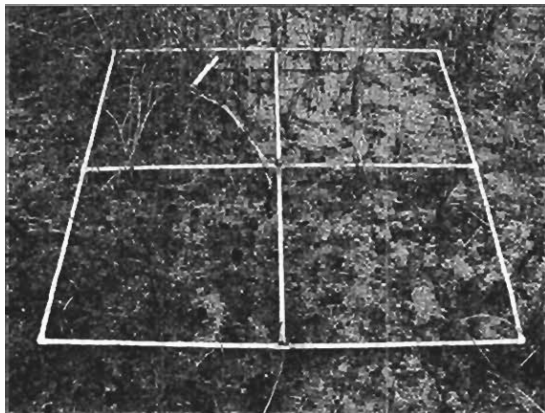
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: PVC Burned

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

DR-12

STATION

20+02

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	2%	10%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	4%	20%
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%
Pickernelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	94%	65%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	15%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	10%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	85%	90%
TOTAL		100%	100%

OVERSTORY

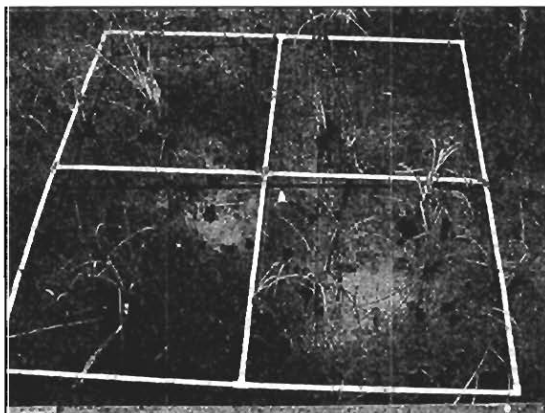
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: PVC Burned

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-13

STATION

21+84

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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>	1%	0%
Open/Void	N/A	99%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	2%	25%
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>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickrelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	98%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

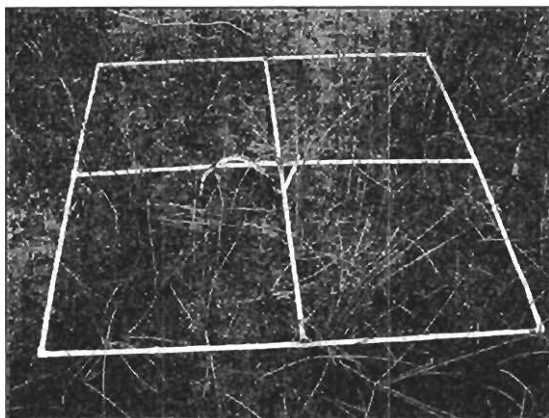
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: PVC Burned

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT DR-14

STATION 23+66

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	2%	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%	15%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</i>	1%	0%
Floating-Heart	<i>Nymphoides aquatica</i>	0%	0%
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	15%	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%	75%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	82%	70%
TOTAL		100%	170%

SAPLING / VINE

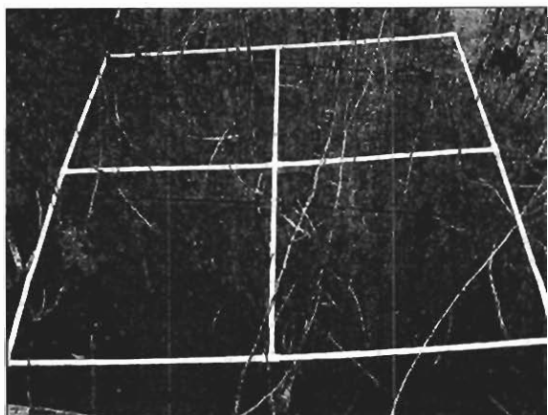
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	1%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	15%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	99%	85%
TOTAL		100%	100%

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 Burned

Water Level / Soil Moisture	1" Surface Water
Aquatic Macrofauna	
Wildlife Indicators (tracks, scat, nests)	none



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-15

STATION

25+48

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	15%	30%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	5%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	1%	10%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	84%	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%	5%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	95%
TOTAL		100%	100%

OVERSTORY

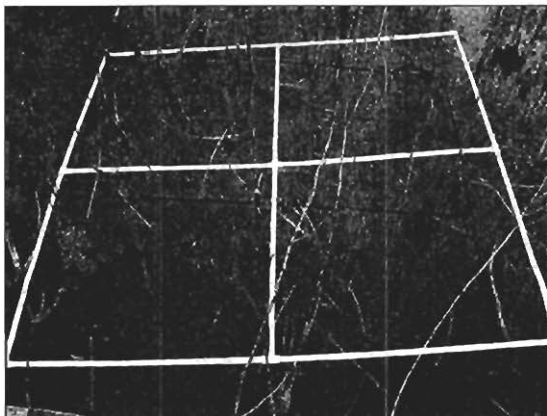
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-16

STATION

27+30

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	55%
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%
Pickernelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%	30%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	85%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

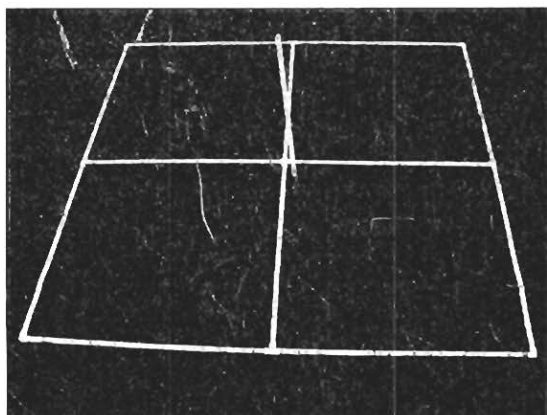
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: Existing PVC

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-17

STATION

29+12

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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%
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%	35%
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>	1%	15%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	94%	50%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

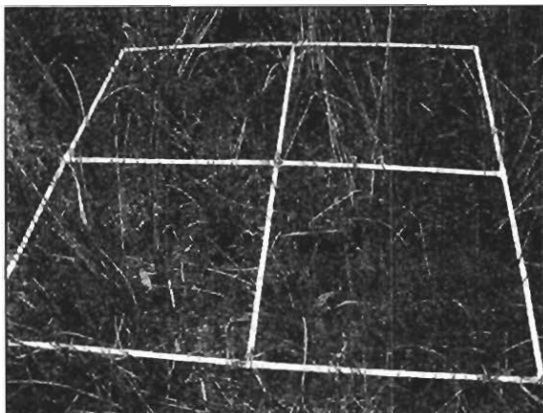
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-18

STATION

30+94

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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>	5%	0%
Open/Void	N/A	95%	100%
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>	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%	0%
Pickerelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%	30%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	85%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

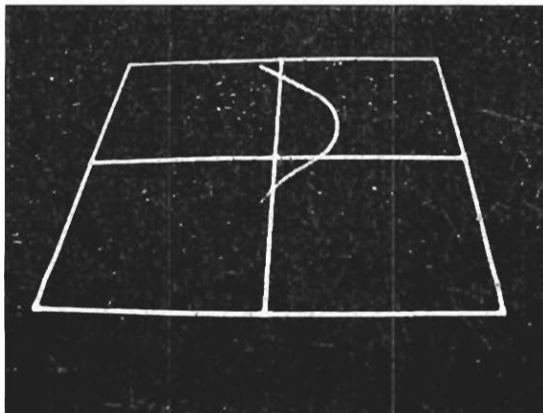
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-19

STATION

32+76

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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%
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%	15%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	0%	10%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	5%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	15%	0%
Southern Swamp Lily	<i>Crinum americanum</i>	0%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%	30%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	80%	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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

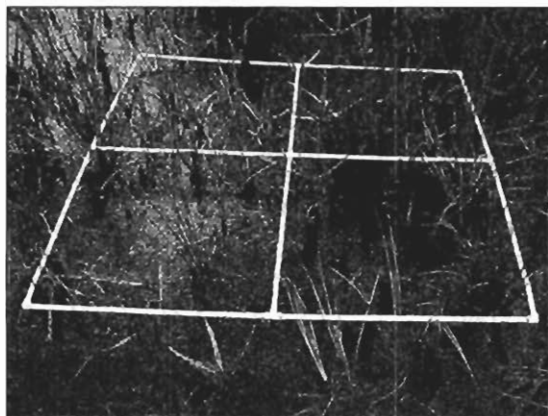
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

DR-20

STATION

34+58

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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%
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>	5%	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%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%	0%
Dead Biomass	N/A	0%	20%
Open Water/Mud/Void	N/A	80%	80%
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%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

OVERSTORY

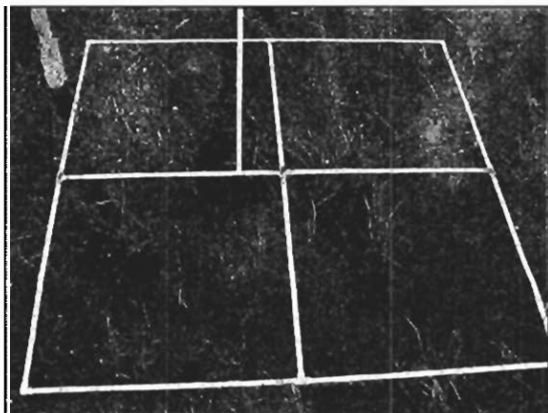
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-21

STATION

36+40

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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%
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%	5%
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	0%
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	2%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	15%
Southern Swamp Lily	<i>Crinum americanum</i>	15%	0%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	68%	80%
TOTAL		100%	100%

SAPLING / VINE

Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	10%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Elm	<i>Trema micrantha</i>	0%	0%
Open/Void	N/A	100%	90%
TOTAL		100%	100%

OVERSTORY

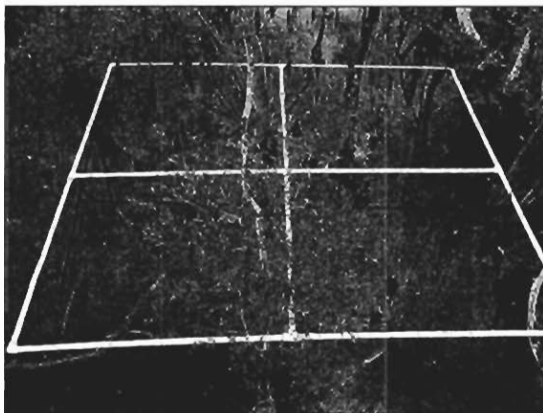
Common Name	Scientific Name	% Coverage	% Coverage
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	0%
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	0%
Golden Fig	<i>Ficus Aurea</i>	0%	0%
Open/Void	N/A	100%	100%
TOTAL		100%	100%

NOTES: New Plot

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

DR-22

STATION

38+22

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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%	
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>	1%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickernelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria latifolia</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail	<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%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	10%	
Dead Biomass	N/A	0%	
Open Water/Mud/Void	N/A	89%	
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%	
Elm	<i>Trema micrantha</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%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NO DATA

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-23

STATION

40+04

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004 % Coverage	6/5/2005 % 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%	
Open/Void	N/A	100%	
TOTAL		100%	0%

HERBACEOUS SPECIES

Common Name	Scientific Name	% Coverage	% Coverage
Saw Grass (Alive)	<i>Cladium jamaicense</i>	10%	
Saw Grass (Dead)	<i>Cladium jamaicense</i>	5%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	5%	
Pickereelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria latifolia</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail	<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%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Dead Biomass	N/A	0%	
Open Water/Mud/Void	N/A	80%	
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%	
Elm	<i>Trema micrantha</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%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NO DATA

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

DR-24

STATION

41+86

SUBMERGED AQUATICS

11/19/2004

6/5/2005

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%	
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>	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%	
Pickereelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria latifolia</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail	<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%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Dead Biomass	N/A	0%	
Open Water/Mud/Void	N/A	70%	
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%	
Elm	<i>Trema micrantha</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%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NO DATA

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-25

STATION

43+68

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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%	
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>	0%	
Pickernelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria latifolia</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail	<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%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	15%	
Dead Biomass	N/A	0%	
Open Water/Mud/Void	N/A	85%	
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%	
Elm	<i>Trema micrantha</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%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NO DATA

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

DR-26

STATION

45+50

SUBMERGED AQUATICS

11/19/2004

6/5/2005

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%	
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>	5%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	1%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickereelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria latifolia</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail	<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%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Dead Biomass	N/A	0%	
Open Water/Mud/Void	N/A	94%	
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%	
Elm	<i>Trema micrantha</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%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NO DATA

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

DR-27

STATION

47+32

SUBMERGED AQUATICS

Common Name	Scientific Name	11/19/2004	6/5/2005
		% 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%	
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>	5%	
Punk Tree (Alive)	<i>Melaleuca quinquenervia</i>	0%	
Punk Tree (Dead)	<i>Melaleuca quinquenervia</i>	0%	
Southern Swamp Lily	<i>Crinum americanum</i>	25%	
Pickereelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria latifolia</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail	<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%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Dead Biomass	N/A	0%	
Open Water/Mud/Void	N/A	70%	
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%	
Elm	<i>Trema micrantha</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%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NO DATA

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-28

STATION

49+14

SUBMERGED AQUATICS

11/19/2004

6/5/2005

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%	
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>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria latifolia</i>	15%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail	<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%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	35%	
Dead Biomass	N/A	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%	
Elm	<i>Trema micrantha</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%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NO DATA

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)

Pennsuco Monitoring Project - Data Form

TRANSECT / POINT

DR-29

STATION

50+96

SUBMERGED AQUATICS

11/19/2004

6/5/2005

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%	
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>	20%	
Southern Swamp Lily	<i>Crinum americanum</i>	0%	
Pickerelweed	<i>Pontederia lanceolata</i>	0%	
Yellowtops	<i>Flaveria linearis</i>	0%	
Arrowhead	<i>Sagittaria latifolia</i>	0%	
Floating-Heart	<i>Nymphoides aquatica</i>	0%	
Capillary Hairsedge	<i>Bulbostylis ciliataefolia</i>	0%	
Cattail	<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%	
Tracy's Beak Rush	<i>Rhynchospora tracyi</i>	0%	
Dead Biomass	N/A	0%	
Open Water/Mud/Void	N/A	80%	
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%	
Elm	<i>Trema micrantha</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%	
Open/Void	N/A	100%	
TOTAL		100%	0%

NOTES: NO DATA

Water Level / Soil Moisture

Aquatic Macrofauna

Wildlife Indicators (tracks, scat, nests)



Pennsuko Monitoring Project - Data Form

TRANSECT / POINT

DR-30

STATION

52+78

SUBMERGED AQUATICS

		11/19/2004	6/5/2005
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%
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>	20%	5%
Pickereelweed	<i>Pontederia lanceolata</i>	0%	0%
Yellowtops	<i>Flaveria linearis</i>	0%	0%
Arrowhead	<i>Sagittaria latifolia</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%
Dead Biomass	N/A	0%	0%
Open Water/Mud/Void	N/A	80%	95%
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%
Elm	<i>Trema micrantha</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%

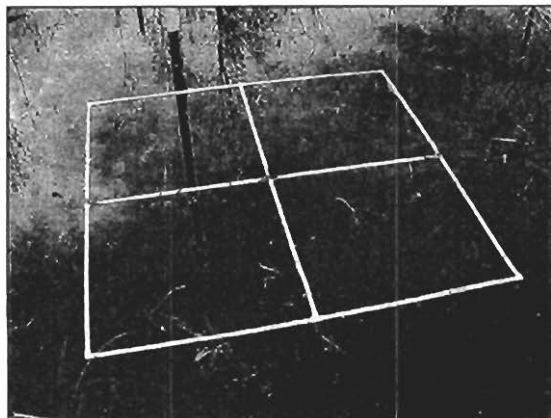
NOTES:

Water Level / Soil Moisture

Aquatic Macrofauna

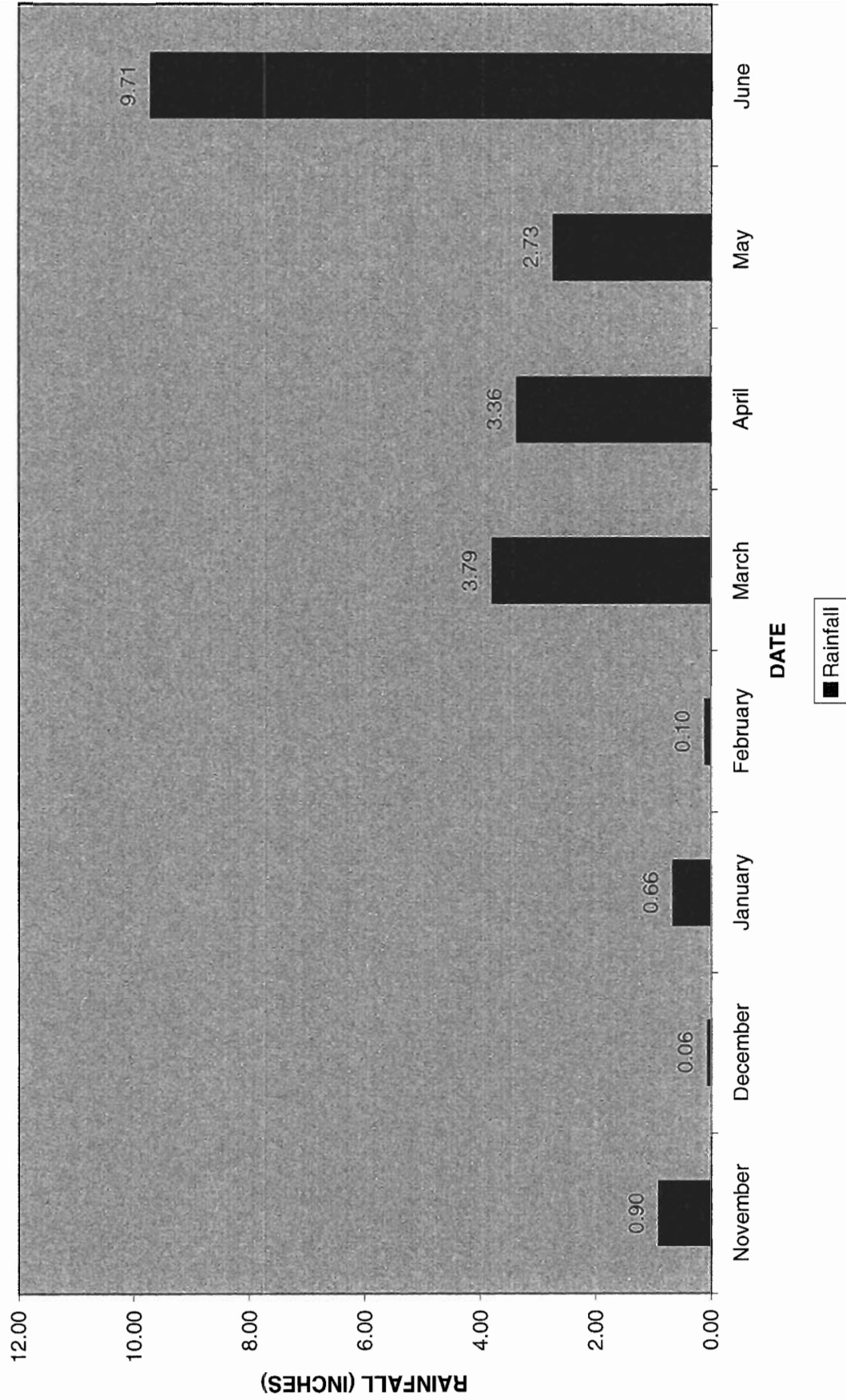
Wildlife Indicators (tracks, scat, nests)

none



RAINFALL DATA 2004/2005

Monthly Precipitation 2004/2005
TAMIAMI TRAIL 40 MI BEND, FL



FIGURES

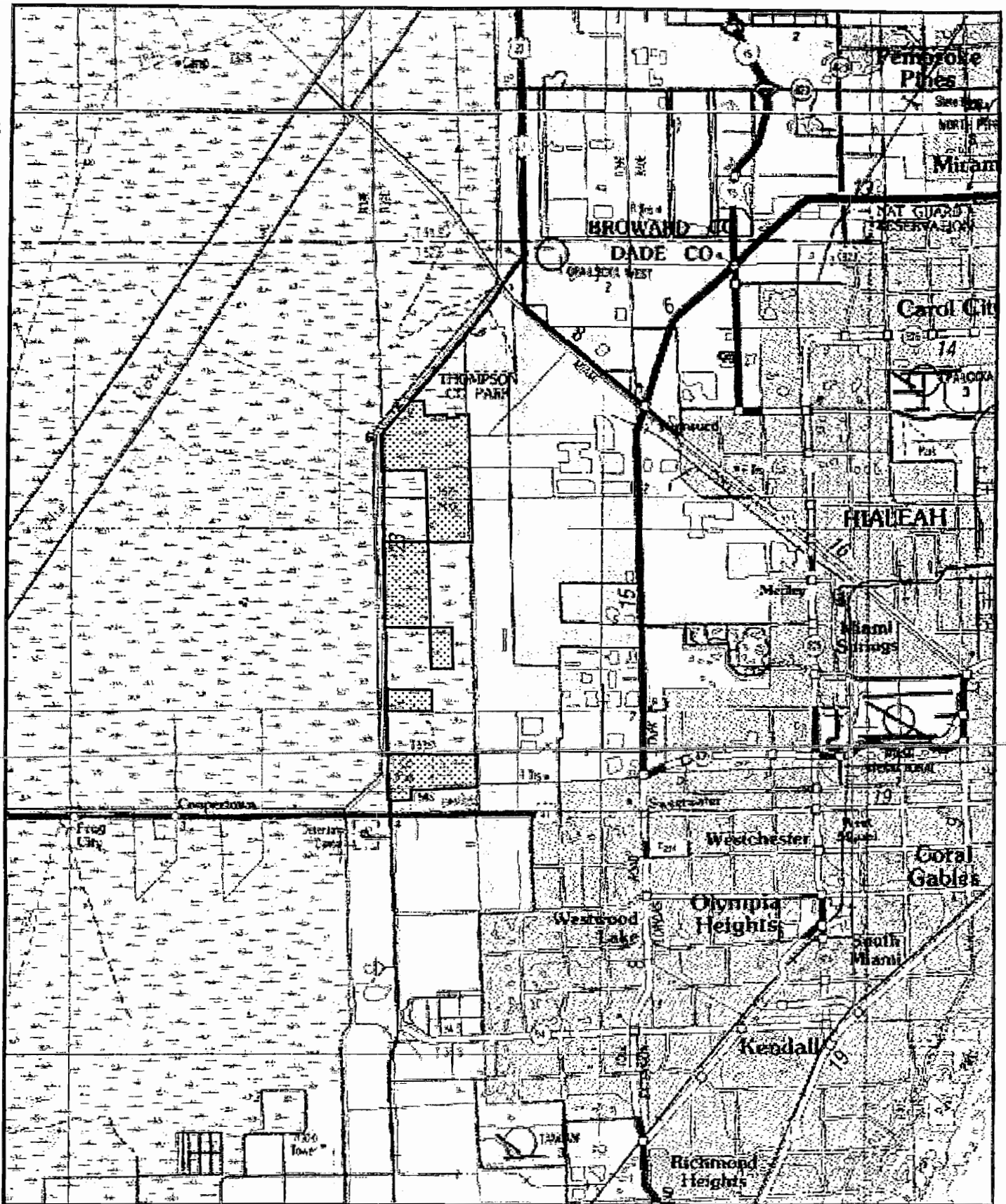


Figure 1. Location Map

 Restoration Area



10000 0 10000 20000 Feet



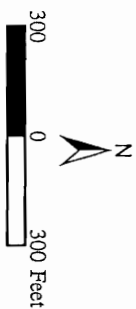


Figure 2. Transect Locations



Figure 3. Transect A

- End Points of Segment
- Data Collection Points



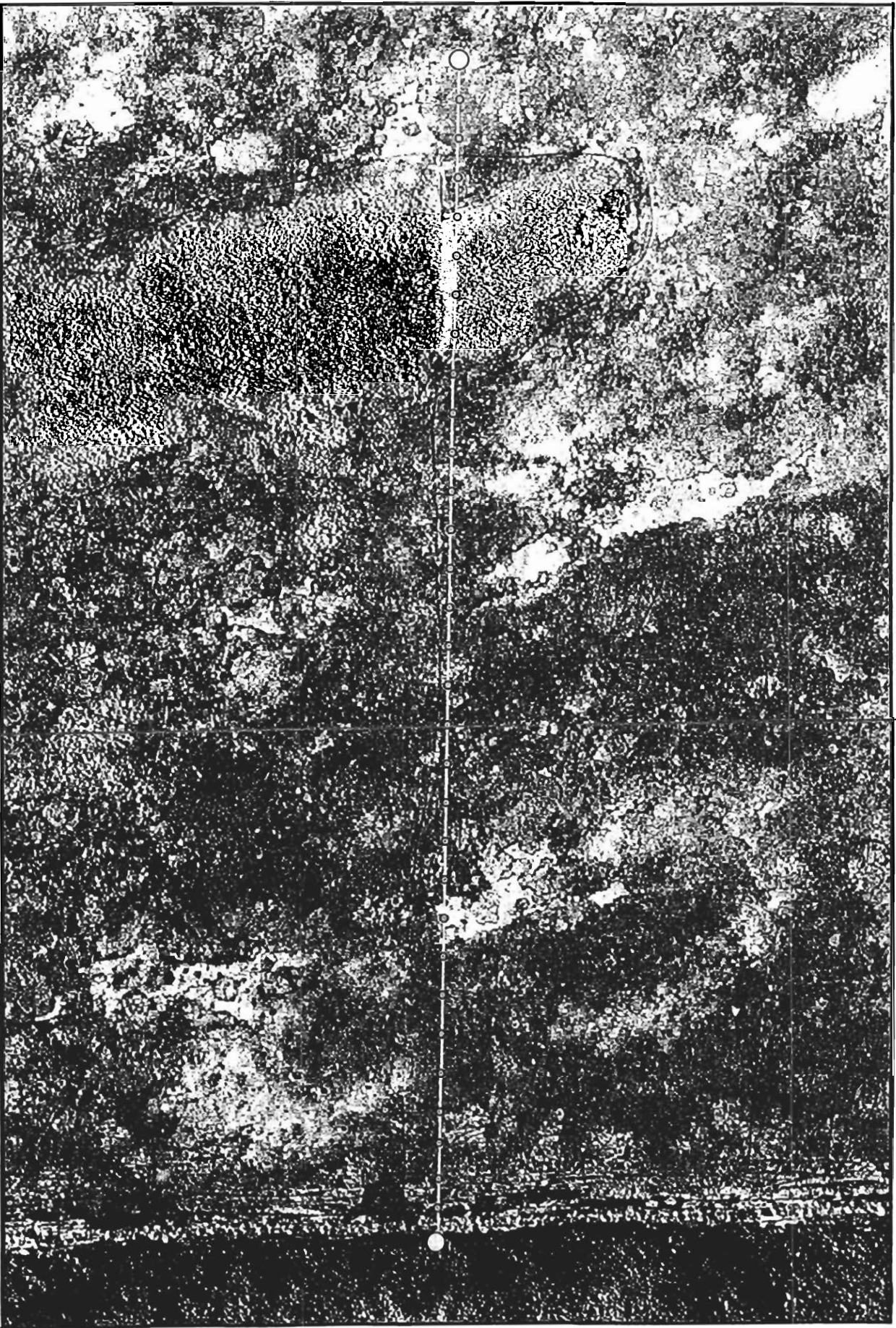


Figure 4. Transect B

- End Points of Segment
- Data Collection Points

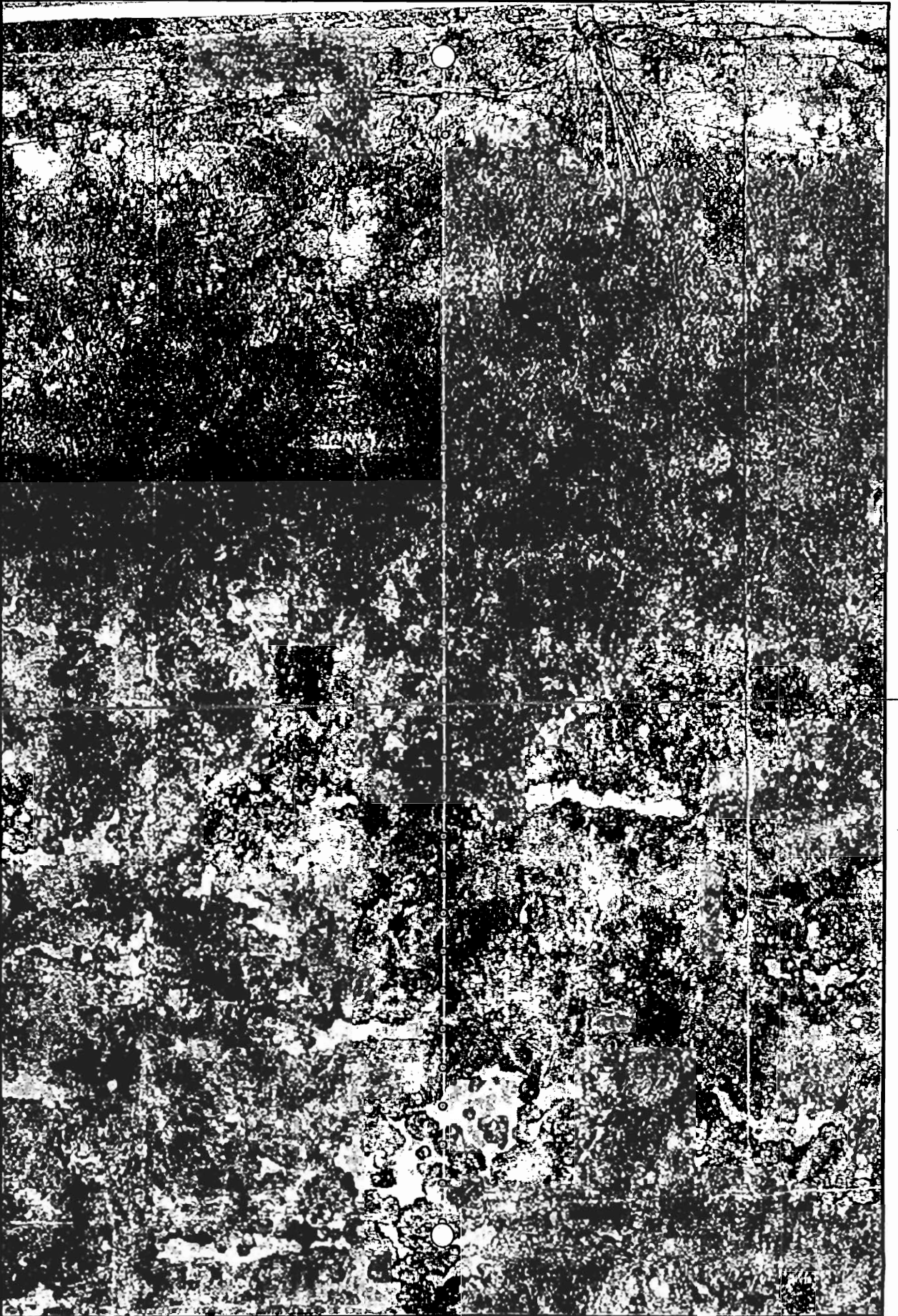


Figure 5. Transect C

- End Points of Segment
- Data Collection Points

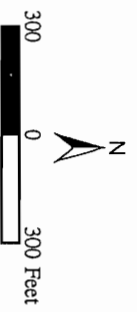




Figure 6. Transect DR

- End Points of Segment
- Data Collection Points