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## Richmond County Marsh Inventory

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# **RICHMOND COUNTY MARSH INVENTORY**

**Special Report No. 306 in Applied Marine Science and Ocean Engineering**

**Walter I. Priest, III and Sharon Dewing**

## **WETLANDS PROGRAM**

**VIRGINIA INSTITUTE OF MARINE SCIENCE**  
School of Marine Science  
The College of William and Mary  
Gloucester Point, Virginia 23062

**Dr. Carl Hershner, Program Director**  
**Dr. Frank O. Perkins, Dean/Director**

**SEPTEMBER 1990**

## Preface

This publication is one of a series of county and city tidal marsh inventories prepared by the Wetlands Advisory Group of the Virginia Institute of Marine Science. The previously published reports include:

Lancaster County	City of Virginia Beach	New Kent County
Northumberland County	Vol. 1 and 2	Essex County
Mathews County	City of Newport News	Isle of Wight County
York County and the Town of Poquoson	and Fort Eustis	Middlesex County
Stafford County	Accomack County	City of Norfolk
Prince William County	Northampton County	King William County and Town of West Point
King George County	Westmoreland County	King and Queen County
City of Hampton	James City County	Prince George County
Fairfax County	and the City of Williamsburg	and City of Hopewell
Gloucester County	Surry County	City of Portsmouth
	Spotsylvania and Caroline Counties	City of Virginia Beach Vol. 3
	and the City of Fredericksburg	

Under Section 62-1.13.4 of the Virginia Wetlands Act, the Virginia Institute of Marine Science is obligated to inventory the tidal wetlands of the Commonwealth. This inventory program is designed to aid the local wetlands boards, the state and federal regulatory agencies, and regional planning districts in making informed rational decisions on the uses of these valuable resources. They are also intended for use by the general public as a natural history guide and the scientific community as a research data source.

The reader is referred to the Shoreline Situation Report, Richmond County, SRAMSOE No. 164, Virginia Institute of Marine Science, Gloucester Point, Virginia 23062. This report focuses on various shoreline characteristics including areas of erosion and accretion, beaches, marshes, artificially stabilized areas, and fastland types and uses.

Also of interest may be a booklet, Wetlands Guidelines, available from the Marine Resources Commission, Newport News, Virginia, which describes the wetlands types and the types of shoreline activities which affect wetlands and what these effects are.

### Acknowledgements

I would like to thank my boat operators Bob Croonenberghs and Tom Luckham without whose tireless efforts this inventory would not have been possible. I would also like to thank the personnel of the Virginia Department of Transportation who opened the bridge at the mouth of Cat Point Creek to allow us access.

We would especially like to thank Berch Smithson and Anna K. Kenne for the digital cartography, Julie G. Bradshaw for the cover photograph, William Jenkins for the photographic reproductions, Janet Walker for tables and topography, Judy Hudgins and Gene Silberhorn for their review of the manuscript, and Dianne Bowers for her invaluable assistance.

The field work for this inventory was funded in part by the Department of Commerce, National Oceanic and Atmospheric Administration, Office of Coastal Zone Management, Grant No. 04-6-168-44037, and in part by the Virginia Council on the Environment's Coastal Resources Management Program through grant # NA89AA-D-CZ134 of the National Oceanic and Atmospheric Administration under the Coastal Zone Management Act of 1972 as amended.

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## Introduction

Richmond County is blessed with an especially rich diversity of tidal wetlands. They vary from the brackish marshes of Lancaster Creek through the slightly brackish marshes near the Route 360 bridge to the tidal freshwater marshes of upper portion of the county. This is due primarily to the changes in salinity which occur along this reach of the Rappahannock River. Many of the tributary creeks also display this transition, with brackish or slightly brackish marshes at their mouths and tidal freshwater marshes at their heads.

By virtue of its location along the Rappahannock River, Richmond County is also endowed with a wide variety of other marine resources which depend in one way or another on these tidal wetlands for food, habitat or maintenance of water quality. These range from the oyster growing areas of the lower county to the anadromous fish spawning areas of the tidal freshwater portions of the river and its tributaries.

This inventory is divided into ten sections beginning at the upper end of the county. Each section relates to a specific reach of the river shoreline or creek system. It covers 223 separate marshes totalling 4724 acres. The dominant wetland type is big cordgrass (2000 acres) which is indicative of low salinity or slightly brackish conditions. The next most abundant community in the county is the arrow arum-pickerelweed community (354 acres) which is indicative of freshwater areas. The next most abundant communities are saltmarsh cordgrass (351 acres), cattails (273 acres), saltmeadow (256 acres) and saltbush (237 acres) indicating a wide range of environmental conditions from fresh to brackish water.

The largest single marsh, 823 acres, is the McGuire Creek complex (#63) just below the Route 360 bridge which is dominated by big cordgrass and a number of brackish water species. Further upstream is the largest marsh system, Cat Point Creek (#15-#45), which is composed of a combination of oxbow, creek and broad fringing marshes. It is dominated by big cordgrass and a large number of freshwater species.

Something of special interest is the occurrence of prairie cordgrass, *Spartina pectinata*, in Marsh #4. This is one of only eight places it has been reported from in the state.

## Methods

Wetland locations and wetland boundaries were obtained by consulting USGS topographic maps and aerial photographs. The configuration and areal extent of each marsh was confirmed by observations by boat, on foot or by low level overflights. Individual plant species percentages are quantitative estimates of coverage based on visual inspections of every marsh.

These percent cover estimates are subject to a seasonal bias depending on what time of the year the estimates are made. In the brackish water marshes if the observations are in the spring many of the late developing annuals, e.g. water hemp, saltmarsh aster, marsh fleabane and orach, are not visible among the earlier developing grasses. In the freshwater marshes the spring and early summer dominants are usually the perennials, e.g. arrow arum, pickerelweed and cattails. During late summer and early fall these are often replaced by beggars ticks and rice cutgrass as the dominant species in the same marsh. This inventory was conducted during June, July and August of 1978.

The outline of each marsh as depicted on the topographic map was planimetered to determine its acreage. Marshes 0.25 acres or larger are designated by number. The acreage, plant species percentage and acreage, marsh type and other observations are recorded in tabular form for each of these marshes. Marshes less than 0.25 acres (usually narrow fringing marshes and very small pocket marshes) are indicated by the same shaded symbol as the numbered marshes but are not included in the tabulations. The size of the small marshes (less than one acre) is exaggerated on the maps for clarity and is not always to scale.

Plant species percentages are recorded to the nearest percent and acreages to the nearest 0.1 acre in the larger marshes and the nearest 0.01 acre in the smaller marshes. The acreages of the smaller marshes are probably not accurate to the second decimal. This is used, however, as a means to more accurately balance the calculated acreages of the individual species. In those instances where an individual plant species was estimated to amount to less than 0.5 percent or 0.05 acre, the symbol (-) is used to indicate a trace amount. In unusual situations where an individual marsh was estimated to contain more than 50 percent or more of a species not listed as a marsh type, the closest applicable marsh type was used. For example, a marsh judged to contain 50 percent marsh hibiscus would be listed as Type XI (Freshwater Mixed).

## **Marsh Types and Evaluation**

For a better understanding of what is meant by marsh types, some background information is required. The personnel of the Wetland Advisory Group have classified twelve different, common marsh types in Virginia, based on vegetational composition. These marsh types have been evaluated according to certain values and are recorded in the Guidelines report. The following is a brief outline of the wetland types and their evaluation as found in that publication:

It is recognized that most wetlands areas, with the exception of the relatively monospecific cordgrass marshes of the Eastern Shore, are not homogeneously vegetated. Most marshes are, however, dominated by a major plant. By providing the manager with the primary values of each community type and the means of identification, he then has a useful and convenient tool for weighing the relative importance of each marsh parcel. In Virginia, many wetlands management problems involve only a few acres or a fraction of an acre. The identification of plant communities permits the manager to evaluate both complete marshes and subareas within a marsh.

Each marsh type may be evaluated in accordance with five general values. These are:

1. Production and detritus availability. Previous VIMS reports have discussed the details of marsh production and the role of detritus which results when the plant material is washed into the water column. The term "detritus" refers to plant material which decays in the aquatic system and forms the basis of a major marine food web. The term "production" refers to the amount of plant material which is produced by the various types of marsh plants. Vegetative production of the major species has been measured, and marshes have been rated in accordance with their average levels of productivity. If the production is readily available to the marine food web as detritus, a wetlands system is even more important than one of equal productivity where little detritus results. Availability of detritus is generally a function of marsh elevation and total flushing, with detritus more available to the aquatic environment in the lower, well-flushed marshes.

2. Waterfowl and wildlife utilization. Long before marshes were discovered to be detritus producers, they were known as habitats for various mammals and marsh birds and as food sources for migratory waterfowl. Some marsh types, especially mixed freshwater marshes, are more valuable because of diversity of the vegetation found there.

3. Erosion buffer. Erosion is a common coastal problem. Marshes can be eroded, but some, particularly the more saline types, are eroded much more slowly than adjacent shores which are unprotected by marsh. This buffering quality is derived from the ability of the vegetation to absorb or dissipate wave energy by establishing a dense root system which stabilizes the substrate. Generally, freshwater species are less effective than saltwater plants in this regard.

4. Water quality control. The dense growth of some marshes acts as a filter, trapping upland sediment before it reaches waterways, thus protecting shellfish beds and navigation channels from siltation. Marshes can also filter out sediments that are already in the water column. The ability of marshes to filter sediments and maintain water clarity is of particular importance to the maintenance of clam and oyster production. Excessive sedimentation can reduce the basic food supply of shellfish through reduction of the photic zone where algae grow. It can also kill shellfish by clogging their gills. Additionally, marshes can assimilate and degrade pollutants through complex chemical processes, a discussion which is beyond the scope of this paper.

5. Flood buffer. The peat substratum of some marshes acts as a giant sponge in receiving and releasing water. This characteristic is an effective buffer against coastal flooding, the effectiveness of which is a function of marsh type and size.

Research and marsh inventory work accomplished by VIMS personnel indicate that 10 species of marsh vegetation tend to dominate many marshes, the dominant plant depending on water salinity, marsh elevation, soil type, and other factors. The term "dominant" is construed to mean that at least 50% of the vegetated surface of a marsh is covered by a single species. Brackish and freshwater marshes often have no clearly dominant species of vegetation. These marshes are considered to be highly valuable in environmental terms.

**Marsh Types and Their Environmental Contributions**  
*(Edited from Guidelines for Activities Affecting Virginia Wetlands)*

Type I    **Saltmarsh Cordgrass Community**

- a. Average yield 4 tons per acre per annum. (Optimum growth up to 10 tons per acre.)
- b. Optimum availability of detritus to the marine environment.
- c. Roots and rhizomes eaten by waterfowl and stems used in muskrat lodge construction. Also serves as nesting material for various birds.
- d. Deterrent to shoreline erosion.
- e. Serves as sediment trap and assimilates flood waters.

Type II    **Saltmeadow Community**

- a. 1-3 tons per acre per annum.
- b. Food (seeds) and nesting areas for birds.
- c. Effective erosion deterrent.
- d. Assimilates flood waters.
- e. Filters sediments and waste material.

Type III    **Black Needlerush Community**

- a. 3-5 tons per acre per annum.
- b. Highly resistant to erosion.
- c. Traps suspended sediments but not as effective as Type II.
- d. Somewhat effective in absorbing flood waters.

Type IV    **Saltbush Community**

- a. 2 tons per acre per annum or less.
- b. Nesting area for small birds and habitat for a variety of wildlife.
- c. Effective trap for flotsam.

Type V    **Big Cordgrass Community**

- a. 3-6 tons per acre per annum.
- b. Detritus less available than from Type I.
- c. Habitat for small animals and used for muskrat lodges.
- d. Effective erosion buffer.
- e. Flood water assimilation.

Type VI    **Cattail Community**

- a. 2-4 tons per acre per annum.
- b. Habitat for birds and utilized by muskrats.
- c. Traps upland sediments.

Type VII    **Arrow Arum-Pickerel Weed Community**

- a. 2-4 tons per acre per annum.
- b. Detritus readily available to marine environment.
- c. Seeds eaten by wood ducks.
- d. Susceptible to erosion from wave action and boat wakes, particularly in winter months.

Type VIII    **Reed Grass Community**

- a. 4-6 tons per acre per annum.
- b. Little value to wildlife except for cover.
- c. Invades marshes and competes with more desirable species.
- d. Deters erosion on disturbed sites.

Type IX    **Yellow Pond Lily Community**

- a. Less than 1 ton per acre per annum.
- b. Cover and attachment site for aquatic animals and algae.
- c. Feeding territory for fish.

Type X    Saltwort Community

- a. Less than 0.5 tons per acre per annum.
- b. Little value to aquatic or marsh animals.

Type XI    Freshwater Mixed Community

- a. 3-5 tons per acre per annum.
- b. High diversity of wildlife.
- c. High diversity of wildlife foods.
- d. Often associated with fish spawning and nursery grounds.
- e. Ranks high as a sediment trap and nursery grounds.

Type XII    Brackish Water Mixed Community

- a. 3-4 tons per acre per annum.
- b. Wide variety of wildlife foods and habitat.
- c. Deterrent to shoreline erosion.
- d. Serves as sediment trap and assimilates flood waters.
- e. Known spawning and nursery grounds for fish.

**Evaluation of Wetland Types**  
*(From Guidelines for Activities Affecting Virginia Wetlands)*

For management purposes, the twelve types of wetlands identified above are grouped into five classifications based on the estimated total environmental value of an acre of each type.

- Group One:** Saltmarsh Cordgrass (Type I)  
Arrow Arum-Pickerel Weed (Type VII)  
Freshwater Mixed (Type XI)  
Brackish Water Mixed (Type XII)

Group One marshes have the highest values in productivity and wildfowl and wildlife utility and are closely associated with fish spawning and nursery areas. They also have high value as erosion inhibitors, are important to the shellfish industry, and are valued as natural shoreline stabilizers. Group One marshes should be preserved.

- Group Two:** Big Cordgrass (Type V)  
Saltmeadow (Type II)  
Cattail (Type VI)

Group Two marshes are of only slightly lesser value than Group One marshes. The major difference is that detritus produced in these marshes is less readily available to the marine environment due to higher elevations and consequently less tidal action to flush the detritus into adjacent waterways. Group Two marshes have very high values in protecting water quality and acting as buffers against coastal flooding. These marshes should also be preserved; but if development in wetlands is considered to be justified, it would be better to alter Group Two marshes than Group One marshes.

Group Three:      Yellow Pond Lily (Type IX)  
                          Black Needlerush (Type III)

The two marshes in the Group Three category are quite dissimilar in properties. The yellow pond lily marsh is not a significant contributor to the food web, but it does have high values to wildlife and waterfowl. Black needlerush has little wildlife value, but it ranks high as an erosion flood buffer. Group Three marshes are important, though their total values are less than Group One and Two marshes. If development in wetlands is considered necessary, it would be better to alter Group Three marshes than Groups One or Two.

Group Four:      Saltbush (Type IV)

The saltbush community is valued primarily for the diversity and bird nesting area it adds to the marsh ecosystem. To a lesser extent it acts as an erosion buffer. Group Four marshes should not be unnecessarily disturbed, but it would be better to concentrate necessary development in these marshes rather than disturb any of the marshes in the preceding groups.

Group Five:      Saltwort (Type X)  
                          Reedgrass (Type VIII)

Based on present information, Group Five marshes have few values of any significance. While Group Five marshes should not be unreasonably disturbed, it is preferable to develop in these marshes than in any other types.

## Marsh Plants

Common names and scientific names as found in the data tables of this report.

Alder	<i>Alnus serrulata</i> (Aiton) Willd	Jewelweed	<i>Impatiens capensis</i> Meerb
American Germander	<i>Teucrium canadense</i> L.	Joe-Pye Weed	<i>Eupatorium dubium</i> Willd.
Arrow Arum*	<i>Peltandra virginica</i> (L.) Kunth	Juniper	<i>Juniperus virginiana</i> L.
Arrowhead*	<i>Sagittaria falcata</i> Pursh	Lilaeopsis	<i>Lilaeopsis chinensis</i> (L.) Kuntze
	<i>Sagittaria latifolia</i> Willd.	Lizard's-Tail	<i>Saururus cernuus</i> L.
Beak Rush	<i>Rhynchospora</i> spp.	Marsh Fern	<i>Thelypteris palustris</i> Schott
Bedstraw	<i>Galium tinctorium</i> L.	Marsh Fimbristylis	<i>Fimbristylis spadicea</i> (L.) Vahl.
Beggars Ticks*	<i>Bidens coronata</i> (L.) Britton	Marsh Hibiscus*	<i>Hibiscus moscheutos</i> L.
Big Cordgrass*	<i>Spartina cynosuroides</i> (L.) Roth	Marsh Mallow	<i>Kosteletskya virginica</i> Presl.
Black Gum*	<i>Nyssa sylvatica</i> Marshall	Meadow Rue	<i>Thalictrum polygamum</i> Muhl.
Black Needlerush*	<i>Juncus roemerianus</i> Scheele	Mock Bishop's-Weed	<i>Ptilimnium capillaceum</i> (Michaux) Raf.
Black Willow	<i>Salix nigra</i> Marshall	Nut Sedge	<i>Cyperus</i> spp.
Bladderwort	<i>Utricularia</i> sp.	Orach	<i>Atriplex patula</i> L.
Blue Flag	<i>Iris virginica</i> L.	Panic Grass	<i>Panicum agrostoides</i> Spreng.
Boneset	<i>Eupatorium perfoliatum</i> L.	Olney Threesquare	<i>Scirpus olneyi</i> Gray
Burweed	<i>Sparganium</i> sp.	Pickerelweed	<i>Pontederia cordata</i> L.
Button Bush	<i>Cephalanthus occidentalis</i> L.	Plumegrass	<i>Erianthus giganteus</i> (Walter) Muhl
Cane	<i>Arundinaria gigantea</i> Michaux	Red Maple	<i>Acer rubrum</i> L.
Cardinal Flower	<i>Lobelia cardinalis</i> L.	Rice Cutgrass*	<i>Leersia oryzoides</i> (L.) SW.
Cattails*	<i>Typha augustifolia</i> L.	Royal Fern*	<i>Osmunda regalis</i> L.
	<i>Typha latifolia</i> L.	Sacciolepis	<i>Sacciolepis striata</i> (L.) Nash
Chairmaker's Rush	<i>Scirpus americanus</i> Persoon	Saltbush	Marsh Elder <i>Iva frutescens</i> L.*
Climbing Hempweed	<i>Mikania scandens</i> (L.) Willd.	Saltmarsh Aster	Groundsel Tree <i>Baccharis halimifolia</i> L.*
Common Reed*	<i>Phragmites australis</i> (Cav.) Trin. ex Steud.	Saltmarsh Bulrush	<i>Aster subulatus</i> Michaux
Dayflower	<i>Commelinia virginica</i> L.	Saltmarsh Cordgrass*	<i>Aster tenuifolius</i> L.
Dogwood	<i>Cornus amomum</i> Miller	Saltmarsh Loosestrife	<i>Scirpus robustus</i> Pursh
Eryngo	<i>Eryngium aquaticum</i> L.	Saltmeadow Hay*	<i>Spartina alterniflora</i> Loisel
False Nettle	<i>Boehmeria cylindrica</i> (L.) Swartz	Seaside Goldenrod	<i>Lythrum lineare</i> L.
Fleabane*	<i>Pluchea purpurascens</i> (Swartz) DC	Sensitive Fern	<i>Spartina patens</i> (Aiton) Muhl.
Foxtail Grass	<i>Setaria magna</i> Grisebach	Slough Grass	<i>Solidago sempervirens</i> L.
Gerardia	<i>Agalinis purpurea</i> (L.) Pennell	Smartweed*	<i>Onoclea sensibilis</i> L.
Giant Bulrush*	<i>Scirpus validus</i> Vahl.		<i>Spartina pectinata</i> Link
Ironweed	<i>Vernonia nova boracensis</i> (L.)		<i>Polygonum punctatum</i> Ell.

Sneezeweed	<i>Helenium autumnale</i> L.	Water Dock*	<i>Rumex verticillatus</i> L.
Soft Rush	<i>Juncus effusus</i> L.	Water Hemlock	<i>Cicuta maculata</i> L.
Spikerush	<i>Eleocharis fallax</i> Weatherby	Water Hemp*	<i>Amaranthus cannabinus</i> (L.) J.D. Sauer
St. John's Wort	<i>Eleocharis parvula</i> (R.+S.) Link	Water Horehound	<i>Lycopus virginicus</i> L.
Swamp Loosestrife	<i>Hypericum</i> sp.	Water Lily	<i>Nymphaea odorata</i> Aiton
Swamp Milkweed	<i>Decodon verticillatus</i> (L.) Ell.	Water Parsnip	<i>Swim suave</i> Walter
Swamp Rose	<i>Asclepias incarnata</i> L.	Water Primrose	<i>Ludwigia palustris</i> (L.) Ell.
Sweet Flag*	<i>Rosa palustris</i> Marshall	Water Willow	<i>Justicia americana</i> (L.) Vahl.
Sweet Pepperbush	<i>Acorus calamus</i> L.	Wax Myrtle*	<i>Myrica cerifera</i> L.
Switch Grass*	<i>Clethra alnifolia</i> L.	Wild Millet	<i>Echinochloa waleri</i> (Pursh) Nash
Tearthumb	<i>Panicum virgatum</i> L.	Wild Rice*	<i>Zizania aquatica</i> L.
Three-Way Sedge	<i>Polygonum arifolium</i> L.	Wild Rye	<i>Elymus virginicus</i> L.
Turk's-Cap Lily	<i>Polygonum sagittatum</i> L.	Wood Reedgrass	<i>Cinna arundinacea</i> L.
Virginia Willow	<i>Dulichium arundinaceum</i> (L.) Britton	Wool Grass	<i>Scirpus cyperinus</i> (L.) Kunth
	<i>Lilium michauxii</i> Poiret	Yellow Pond Lily*	<i>Nuphar luteum</i> (L.) Sibth. & Smith
	<i>Itea virginica</i> L.		

\*Species included in the Wetlands Act of 1972.

## Glossary of Descriptive Terms

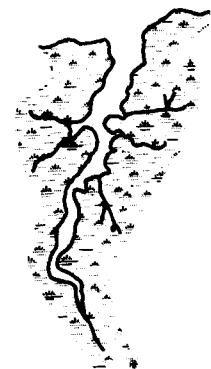
### Cove Marsh

A marsh contained within a concavity or recessed area on a shoreline. The marsh vegetation is usually found surrounding a central, open-water pond, and tidal flushing is permitted through an inlet.



### Creek or Embayed Marsh

A marsh occupying a drowned creek valley. In many large creek marshes the salinity decreases headward; this type of marsh may be divided for inventory purposes into sections if significant changes in the plant community occur along its length.



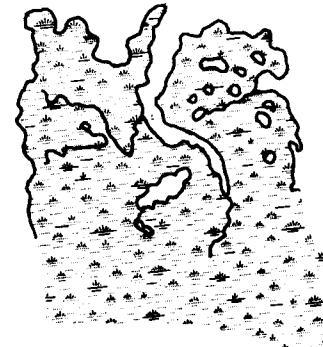
### Delta Marsh

A marsh growing on sediment deposited at the mouth of a tidal creek. Tidal exchange through the creek mouth is usually restricted to narrow channels by the marsh.



### Extensive Marsh

A large marsh where the length and depth or width are roughly comparable. Most extensive marshes are drained by many tidal channels and creeks which have little freshwater input.



### Fringe Marsh

A marsh which borders a section of shoreline and generally has a much greater length than width or depth.



### High Marsh

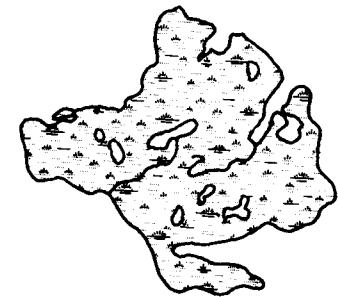
The marsh surface is at an elevation of mean high water or above; it is usually inundated less than twice daily by tidal action.

### Low Marsh

The marsh surface is at an elevation below mean high water; it is usually inundated twice daily by tidal action.

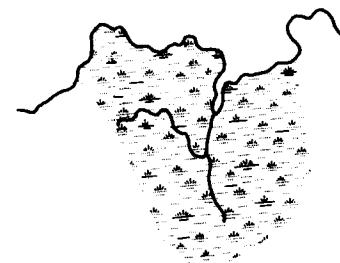
Marsh Island

An isolated marsh surrounded on all sides by open water. Interior portions of the marsh may contain trees scattered at highest elevations.



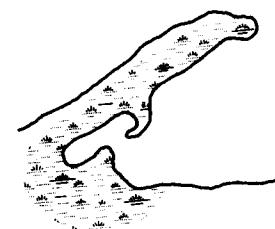
Pocket Marsh

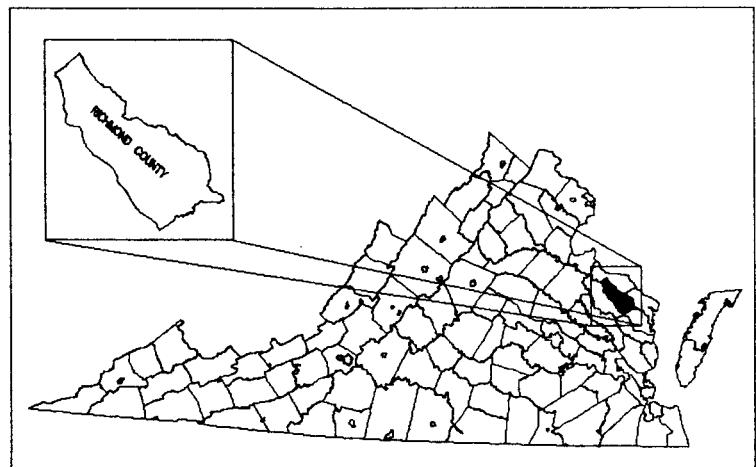
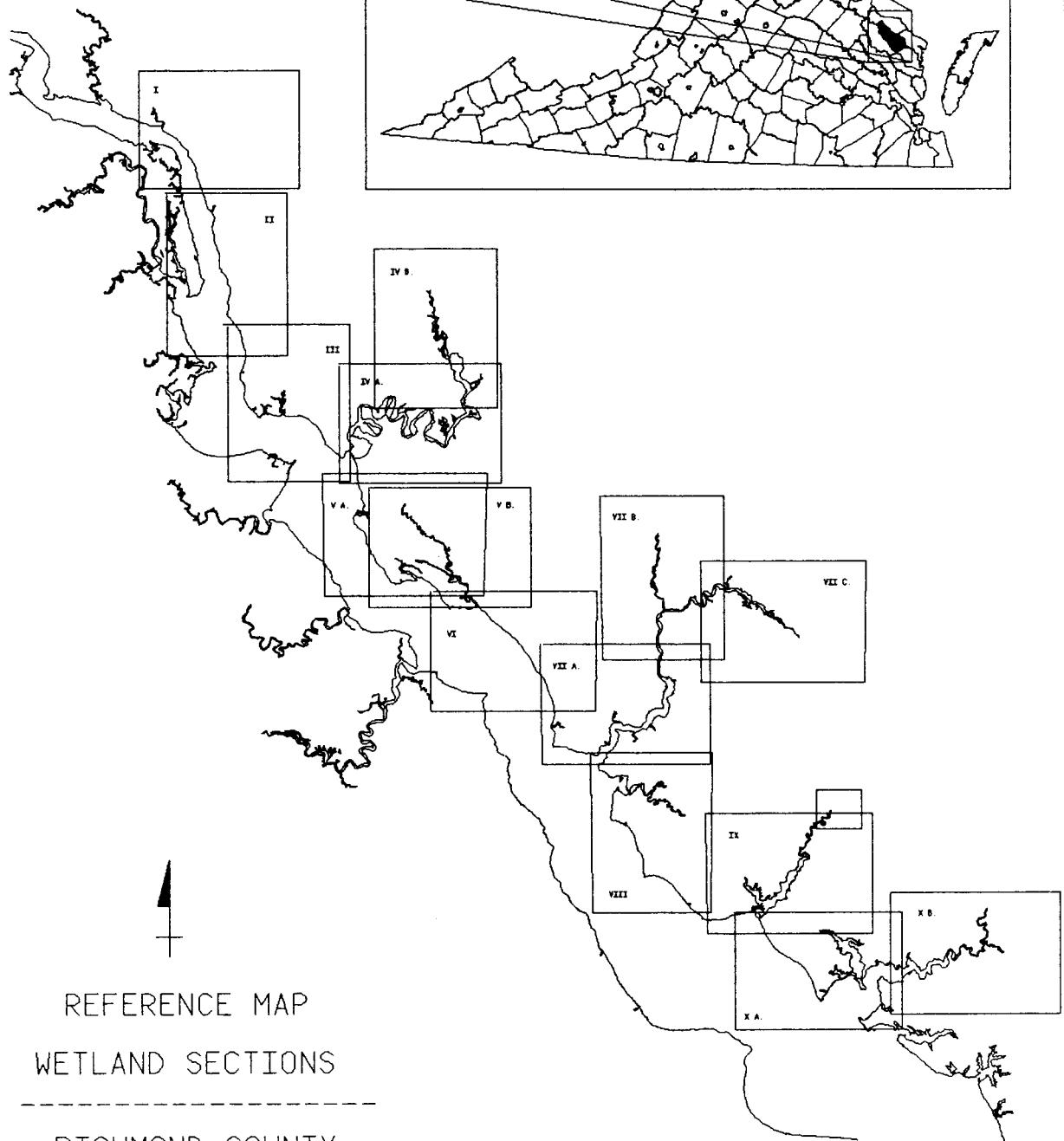
A marsh contained within a small, essentially semi-circular area on a shoreline.



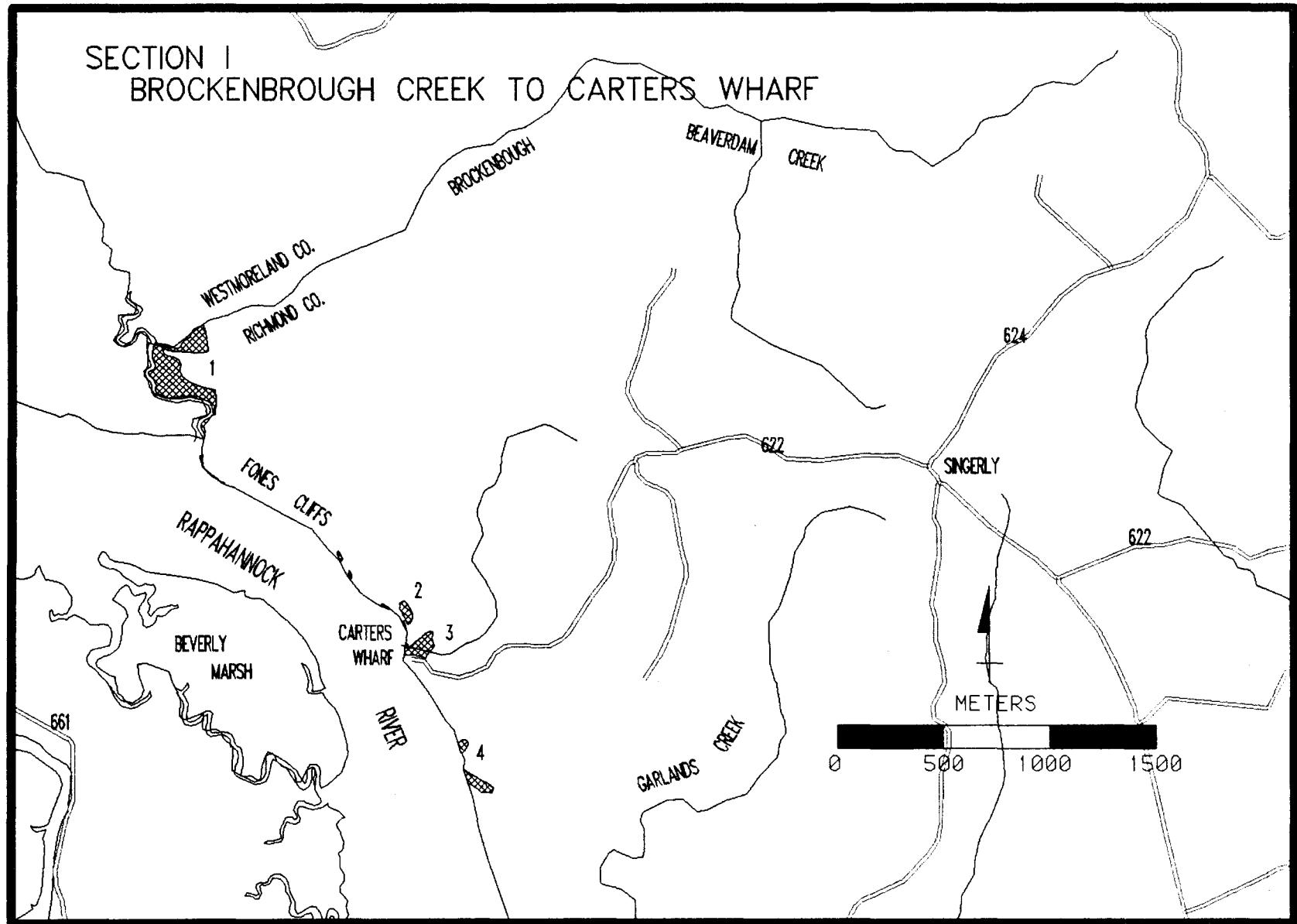
Point or Spit Marsh

A marsh which extends from the uplands in the form of a point or spit. Its development is usually influenced by tidal currents that form a sand berm behind which the marsh forms.



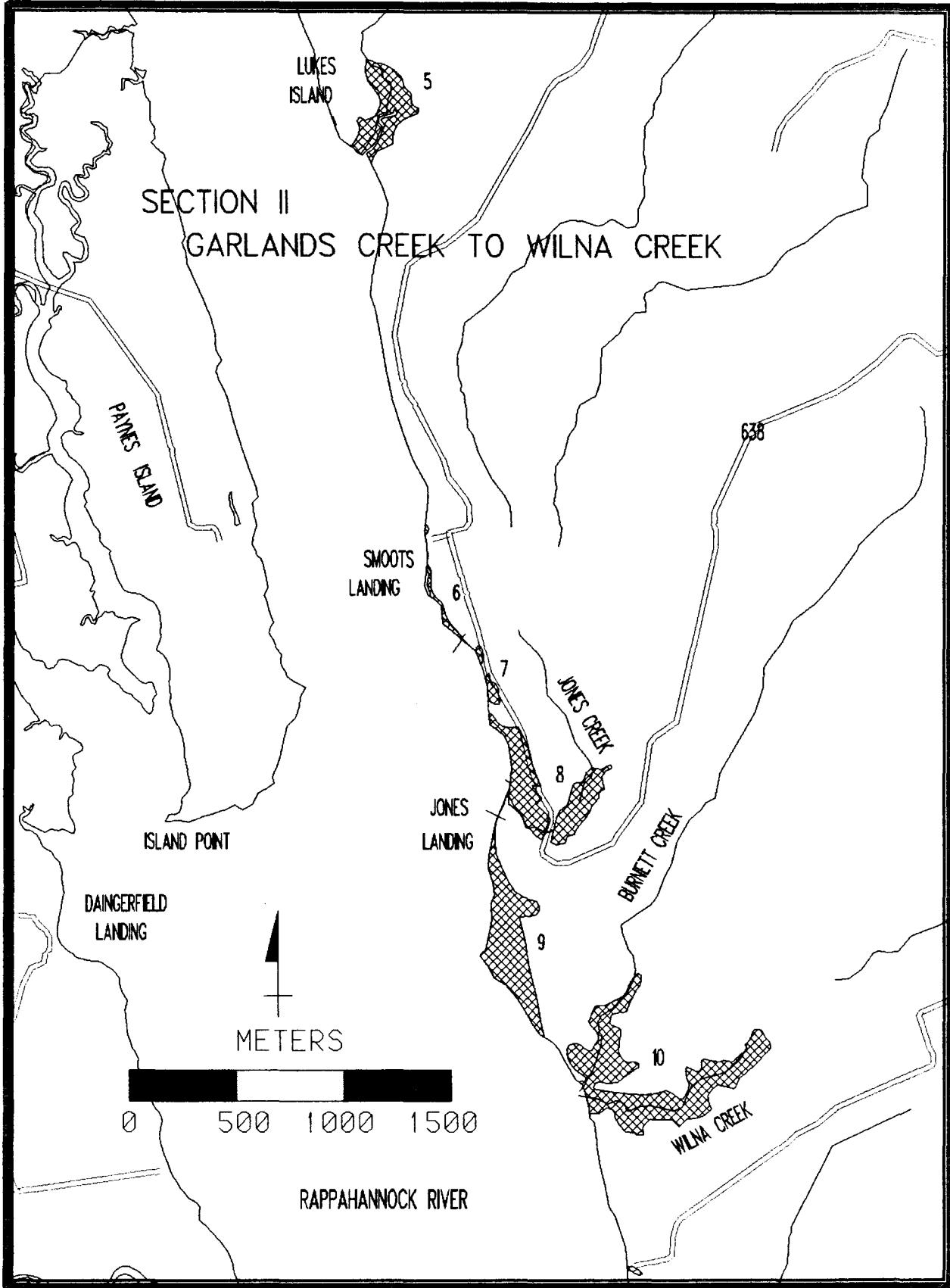


SECTION I  
BROCKENBROUGH CREEK TO CARTERS WHARF



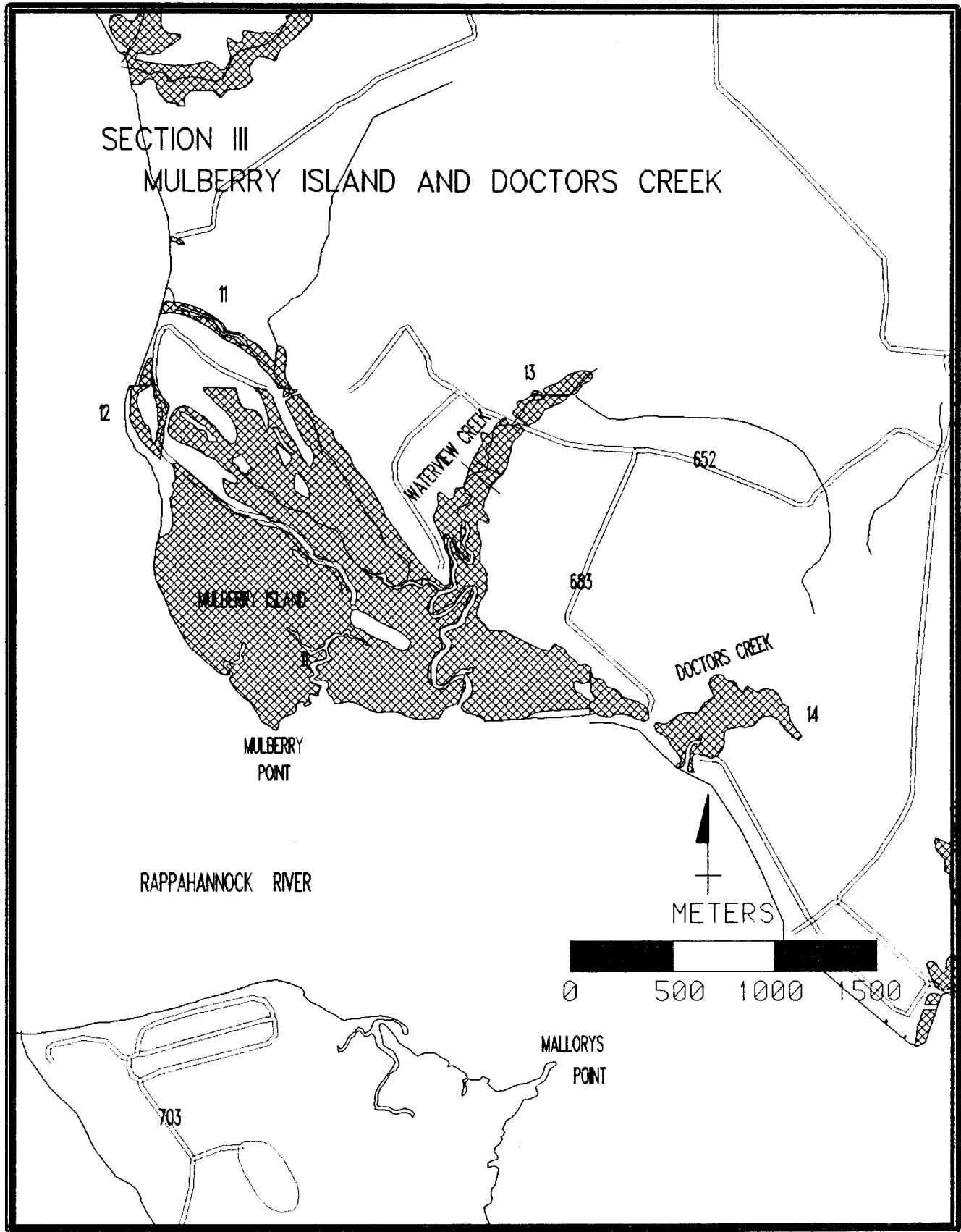
# I. Brockenbrough Creek to Carters Wharf.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Teathumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Cloney Threesquare	Beggars Ticks	Others	Observations	Marsh Type	
			%																					
1	Brockenbrough Creek	13.85	%			1		--	15		1	2	1	--	20	1	20	15	--	23	A-,B-,C1,F-,B-,J-,K-,L-,Z-	Creek marsh	XI	
			acres			.14			2.08		.14	.28	.14		2.77	.14	2.77	2.08		3.19	C.14			
2	Rappahan-nock River	1.03	%								--	5	1		--	1	1	85			AA-,D-,S5,V1,R1,BB-	Pocket behind beach	XI	
			acres									.05	.01			.01	.01	.88			S.05,V.01			
3	Carters Wharf	2.63	%					20		--	19	10	--	10	5	5			--		AA-,D-,G-,K-,L-,S30,U-,BB1	S.79,BB.03	XI	
			acres					.53			.50	.26		.26	.13	.13								
4	Rappahan-nock River	2.25	%	6	5	--	--	--		4	--	--	--	5	1	5		5	5	A1,CC4,S38,AA-,U1,DD-,HH-T-,	G-,H-,I-,J-,K-,L-,Q-,R20 Small creek marsh and pocket	XI		
			acres	.14	.11						.09				.11	.02	.11		.11	.11	A.02,CC.09,S.86,U.02,R.45			
T	Total Section I	19.76	%																					
			acres		.25			2.61		.14	.92	.41		3.14	.30	3.02	2.96	.11	3.30	2.60				
			%																					
			acres																					
			%																					
			acres																					
			%																					
			acres																					



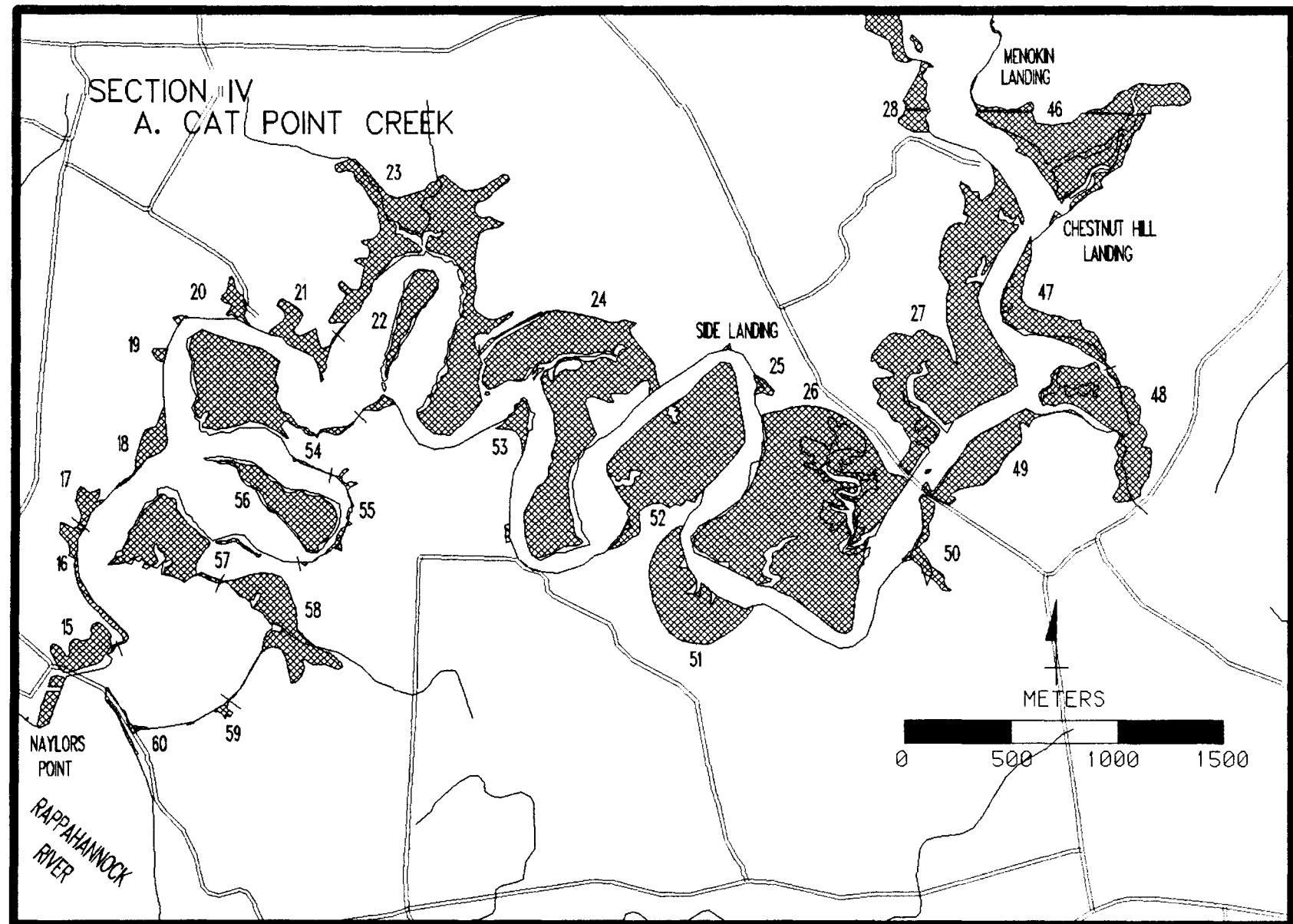
## II. Garlands Creek to Wilna Creek.

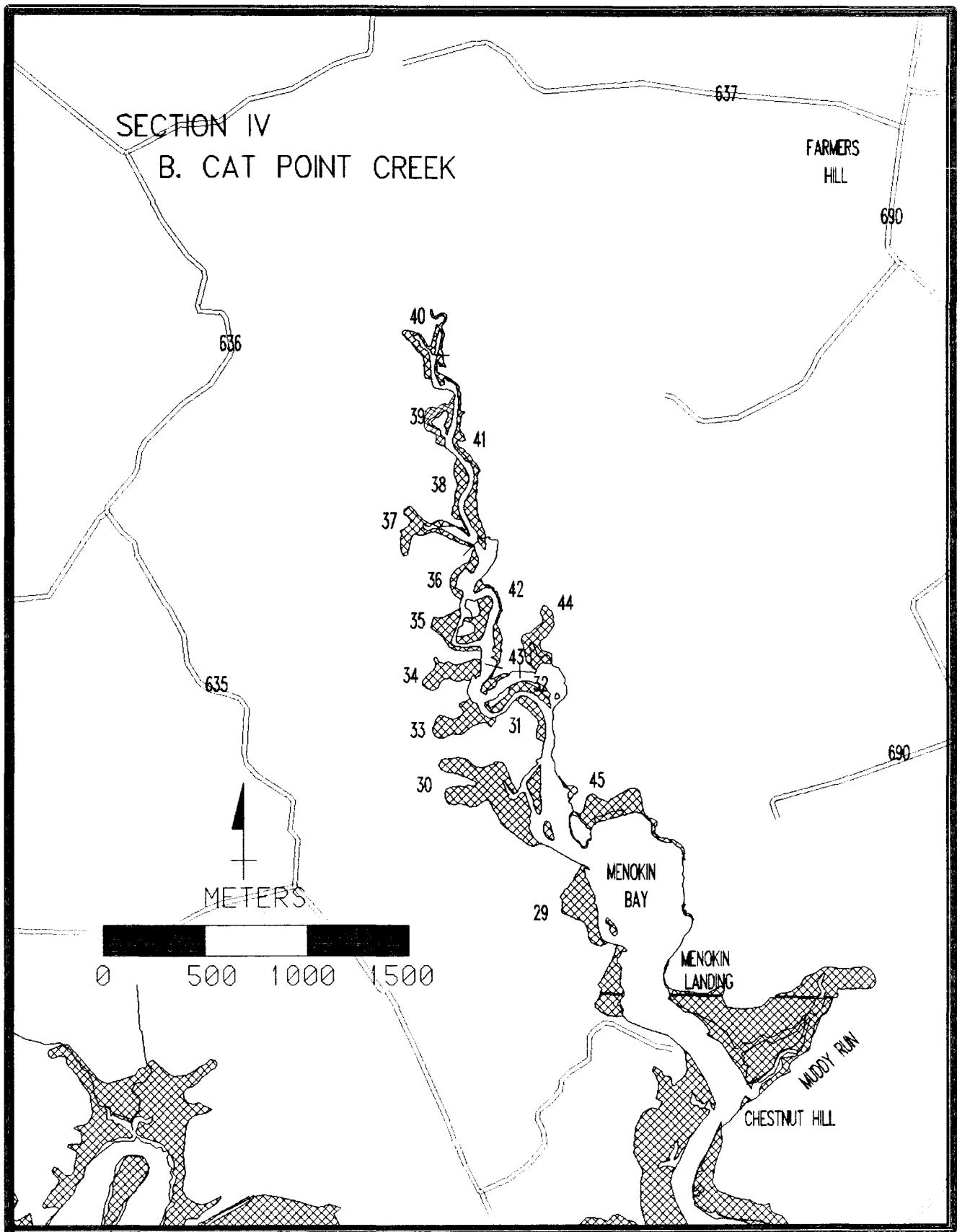
#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum& Pickerelweed	Jeweled	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
			%	--	--	25			2		2	2	1	--	16	1	2	40	3	5	A-,CC-,AA-,C-,Y-,S-,T-X-Z-,D-,F-,K-,L1,Q-,L.16		XI
5	Lukes Island	16.01	%	--	--	25			2		2	2	1	--	16	1	2	40	3	5	A-,CC-,AA-,C-,Y-,S-,T-X-Z-,D-,F-,K-,L1,Q-,L.16		XI
			acres			4.00			.32		.32	.32	.16		2.56	.16	.32	6.40	.48	.80	AA10,D-,J-,K-AA.19	Broad fringe with berm	V
6	Smoots Landing	1.91	%			68		2			--	20			--						AA10,D-,J-,K-AA.19		V
			acres			1.30		.04				.38									AA10,D-,J-,K-AA.19		V
7	Smoots Landing	2.38	%	--	90	--	--			5									1	AA-,D4,K-	Pocket marsh	V	
			acres			2.14					.12								.02	D.10		V	
8	Jones Creek	25.64	%	--		80		1		--	3	--	1	10	--	5	--			C-,D-,G-,K-,L-,R-,FF-		V	
			acres			20.51		.26			.77		.26	2.56		1.28					C-,D-,G-,K-,L-,R-,FF-		V
9	Rappahan-nock River	29.46	%	1	--	59		15		--	5	--	--	3	--	2	1	3	10	CC1,AA-,B-,C-,D-,F-,K-,Y-,GG-		V	
			acres	.29		17.38		4.42			1.47			.88		.59	.29	.88	2.95	CC.29		V	
10	Wilna Creek	51.65	%	--	--	45		25		--	6	--	--	10	1	10	--	--	--	AA-,B2,D-,G-,L1,Z-		XII	
			acres			23.24		12.91			3.10			5.17	.52	5.17					B1.03,L.52		XII
T	Total Section II	127.05	%																				
			acres	.29		68.57		.04	17.91		.32	6.16	.16	.26	11.17	.68	7.36	6.69	1.38	3.75	2.29		
			%																				
			acres																				



### III. Mulberry Island and Doctors Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Odney Threesquare	Boggars Ticks	Others	Observations	Marsh Type
			%	--	1	84		--	--		--	8	--	1	2	1	1	--	1	--			
11	Mulberry Island	435.55	%	--	1	84		--	--		--	8	--	1	2	1	1	--	1	--	II-,CC1,JJ-,AA-, B-,C-,D-,G-,H-,J-, GG-,E-,Z-	K-,L-,R-,T-, V	
			acres		4.36	365.86						34.84		4.36	8.71	4.36	4.36		4.36		CC4.36		
12	Mulberry Island	8.12	%	--	1	30		--	30		--	2	1	--	10		3		5	10	CC-,AA5,C2,D-, G-,H-,J-,K-,F1	XII	
			acres		.08	2.44			2.44			.16	.08		.81		.24		.41	.81	AA.41,C.16,F.08		
13	Waterview Creek	16.45	%	--		--			5		--	15	22	1	43	1	1	--		10	B1,C-,G-,L1,KK-	XI	
			acres						.82			2.47	3.62	.16	7.07	.16	.16			1.65	B.16,L.16		
14	Doctors Creek	29.75	%	--	1	50		--	20		--	25	--	1	1	--	1		--	II-,CC1,JJ-,AA-, B-,G-,K-,L-,Z-,AV	Large creek marsh	V	
			acres		.30	14.88			5.95			7.44		.30	.30		.30				CC.30		
T	Total Section III	489.87	%																				
			acres		4.74	383.18			9.21			44.91	3.70	4.82	16.89	4.52	5.06		4.77	2.46	5.63		
			%																				
			acres																				
			%																				
			acres																				
			%																				
			acres																				





#### IV. Cat Point Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	BIG Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Odney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
15	Naylor's Point	12.20	%	1	5	48		--	10		--	21	--	--	--	--	2		5		II5,CC2,EE-,AA1, D-,G-,Z-	Large pocket marsh	XII
			acres	.12	.61	5.86			1.22			2.56					.24		.61		II.61,CC.24,AA.12		
16	Cat Point Creek	2.33	%	27	--	15		--	25			15		--	--				7		II10,CC-,AA-,C-, D-,F-,G1	Pocket marsh	XII
			acres	.63		.35			.58			.35							.16		II.23,G.02		
17	Cat Point Creek	2.40	%	30	--	50		--	--		--	5	2	2	--	--	1	--	3	--	II6,AA1,B-,C-,D-, G-,H-,J-,L-		V
			acres	.72		1.20						.12	.05	.05			.02		.07		II.14,AA.02		
18	Cat Point Creek	5.15	%	10	--	60			2		--	15			2		--				II10,B-,D-,G1,L-, Z-	Broad cordgrass fringe	V
			acres	.52		3.09			.10			.77			.10						II.52,G.05		
19	Cat Point Creek	1.12	%	15		20			10		--	11		3	40	--	--	--	--		II-,B-,G1,Z-	Pocket marsh	XI
			acres	.17		.22			.11			.12		.03	.45						G.01		
20	Strangeway Landing	3.44	%	1	--	10			13		--	5	--	10	60		1	--			CC-,D-,G-,L-,Z-	Large pocket marsh of small creek	VII
			acres	.03		.34			.45			.17		.34	2.06		.03						
21	Cat Point Creek	9.06	%	2	2	75			6		--	10		--	5						II-,CC-,AA-,D-,J-, K-,G-,Z-	Dominated by cordgrass	V
			acres	.18	.18	6.80			.54			.91			.45								
22	Cat Point Creek	12.55	%	--	2	60					--	8	--	--	13	--	2	--	--		A-,II-,AA13,B-,Z- CC-,D-,G-,K-,R2	Island marsh and point marsh	V
			acres		.25	7.53						1.00			1.63		.25				AA1.63,R.25		

#### IV. Cat Point Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
23	Cat Point Creek	87.52	%	1	--	61		--	5		--	5	1	--	25	--	1	--	--	1	II-,CC-,AA-,MM-,B-,C-,D-,G-,L-,	GG-,EE-,Z-Dominated by cordgrass	V
			acres	.88		53.39			4.38			4.38	.88		21.88		.88			.88			
24	Cat Point Creek	97.40	%	--		50			5		--	5	1	--	17	--	2	6		13	B-,C-,D-,G-,H-,J-,K-,L1,Z-		V
			acres			48.70			4.87			4.87	.97		16.56		1.95	5.84		12.66	L.97		
25	Cat Point Creek	1.33	%	1		35			7		--	7	3	--	40		3	--		4	CC-,AA-,Y-,HH-,B-,C-,D-,E-,G-,	K-,L-,Z-,AU-Very diverse marsh	XI
			acres	.01		.47			.09			.09	.04		.53		.04			.05			
26	Cat Point Creek	138.96	%	--		35			2		--	8	--	--	40	--	10	--		5	AA-,B-,C-,D-,F-,G-,H-,K-		XI
			acres			48.64			2.78			11.12			55.58		13.90			6.95			
27	Cat Point Creek	99.69	%	--		1	--		17		--	1	1	1	8		5	3		61	A-,CC-,B1,Q-,W-,Y-,NN-,C1,D-,E-,	G-,H-,K-,L-,M-,O-,C-,D-,PP-,AM-,AU-	XI
			acres			1.00			16.95			1.00	1.00	1.00	7.98		4.98	2.99		60.81	B1.00,C1.00		
28	Menokin Bay	6.81	%						5		--	1	3	10	--	3	2			69	CC-,C-,H-,HH-,L-,M5,E,W2	Completely dom. bidens marsh	XI
			acres						.34			.07	.20	.68		.20	.14		4.70	M.34,W.14			
29	Menokin Bay	8.52	%						1			1	--	--	8	--	20	2		60	A-,CC1,K-,L-,M2,QQ-,B-,C1,E-,H1,	W-,PP-,E3,AU-	XI
			acres						.09			.09			.68		1.70	.17		5.11	CC.09,M.17,C.09,H.09,E.26		
30	Cat Point Creek	23.84	%									1	2	21	--	2	30			40	A-,CC1,B1,G-,H-,I-,L-,M-,E-,AL-,	C1,D-,E-,W1,X-,Y-,QQ-,PP-,AU-	XI
			acres									.24	.48	5.01		.48	7.15			9.54	CC.24,B.24,C.24,W.24		

#### IV. Cat Point Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
31	Cat Point Creek	2.19	%	1					3		--	2	1	--	22	1	2	--		30	A3,CC2,L-,M25,E1,W-,B-,C7,D-	E-,Y-,QQ-,HH-AU-	XI
			acres	.02					.07			.04	.02		.48	.02	.04			.66	A.07,M.55,C.15,CC.04,E.02	Broad fringe marsh x 60-70'	
32	Cat Point Creek	3.36	%	1		--			10			1	--	--	30	--	2	--		40	A2,CC2,H-,K-,L-,M5,Y-,OO-,B,C1,	D-,E-,E5,Q-,R-,W1,QQ-,AU-	XI
			acres	.03					.34			.03			1.01		.07			1.34	A.07,CC.07,C.07,M.17,E.17	Island marsh	
33	Cat Point Creek	6.10	%			--			15			--	1	--	30	--	9	--		40	CC1,B-,H-,I-,L-,M1,E2,C1,E-,F-	W-,QQ-,PP-,AU-	XI
			acres						.92			.06			1.83		.55			2.44	CC.06,E.12,C.06,M.06		
34	Cat Point Creek	5.83	%						--			1		--	30	--	2	20		35	A-,CC1,B1,F-,H-,I-,L-,M4,EE-,C1,	D1,E-,E3,W1,OO-,QQ-,AU-	XI
			acres									.06			1.75		.12	1.17		2.04	CC.06,B.06,E.18,M.23,C.06,D.06		
35	Cat Point Creek	6.37	%						1			--			30	4	2	3		40	A-,CC2,SS-,B-,C2,E-,F-,QQ-,H-	HH-,K-,L-,AU-,M5,E10,W1,X-,Y-,EE-	XI
			acres						.06						1.91	.25	.13	.19		2.55	CC.13,W.06,C.13,M.32,E.64	Island, pocket and fringe marsh	
36	Cat Point Creek	2.04	%						5			--			25	--	2	10		40	A-,CC1,B-,C1,D-,E-,F-,L-,U-,M15,	W1,E-,OO-,QQ-,EE-,PP-,UU-,AU-	XI
			acres						.10						.51		.04	.20		.82	CC.02,C.02,M.31,W.02	Cove marsh	
37	Cat Point Creek	4.27	%						1			1	--	--	20	--	5	33		33	A-,CC1,C-,D-,E-,F-,I-,J-,PP-,VV-,CC.04,M.09,N.09,W.09	L-,M2,N2,E-,R-,T-,W2,EE-,U-,QQ-,UU-,NN-,WW-,XX-,AU-	XI
			acres						.04			.04			.85		.21	1.41		1.41			
38	Cat Point Creek	2.27	%						--			2	2	1	20	5	5	25		25	A-,CC1,B-,E-,F-,G-,H-,I-,J1,Z-,CC.02,J.02,M.23,E.07	PP-,K-,L-,M10,N-,E3,Q-,W-,YY-,AU-	XI
			acres									.05	.05	.02	.45	.11	.11	.57		.57			

#### IV. Cat Point Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
#	Marsh Location	Total Acres	%																				
39	Cat Point Creek	3.95	%								--	--	4	--	12	10	5	18		20	A-,CC-,B-,G-,H-,L-,M5,EE-,PP-,Y-,U-,ZZ-	E25,Q1,W1,X-,M.20,E.99,W.04	XI
			acres										.16		.47	.40	.20	.71		.79			
40	Cat Point Creek	1.82	%								--	--	5	--	9	25		--		15	A-,B-,D-,H-,J-,K-,L-,M19,N-,UU-R-,X-,Y-,U-,EE-,AC-,AD-,NN-,DD-,AE-,AF-,A.02	E25,Q1,S-W-,M.35,Q.02,E.46,AK-,AL-	XI
			acres										.09		.16	.46				.27			
41	Cat Point Creek	4.38	%						5		--	1	3	2	25	1		20		35	A-,B1,C-,D-,E-,F-,H-,J1,UU-K,L-,B.04,J.04,M.04,W.22	M1,Q-,R-,Y-,EE-,OO-,QQ-AN-,XX-,AM-,PP-,W5,U-,AU-	XI
			acres						.22			.04	.13	.09	1.10	.04		.88		1.53			
42	Cat Point Creek	1.92	%			--			5		--	1	3	3	25	2	5	2		40	A-,CC3,B-,C1,D5,F-,H-,K-,L-,M5,N-,EE-,AD-,AF-,UU-,AH-	E-,Q-,W-,AO-,U-,QQ-,OO-,EE-,AD-,AF-,UU-,AH-	XI
			acres						.10			.02	.06	.06	.48	.04	.10	.04		.77	CC.06,C.02,D.10,M.10		
43	Cat Point Creek	.90	%		3				1		--	1	1	2	30	--	10	--		41	A-,CC1,B-,C-,D-,E-,H-,OO-,I-,K-,CC.01,W.09	L-,R-,W10,Y-,EE-,AN-,HH-,VV-,AU-	XI
			acres		.03				.01			.01	.02	.02	.27		.09			.37			
44	Cat Point Creek	6.28	%			--			2		--	1	3	1	35		5	2		40	A-,CC2,B-,C-,D1,E-,F-,L-,Q,W8,CC.13,D.06,W.50	QQ-,AU-,EE-,PP-,AQ-	XI
			acres						.13			.06	.19	.06	2.20		.31	.13		2.51			
45	Menokin Bay	8.91	%						2		--	8	--	1	25		2	18		40	A-,CC1,B-,C-,D2,E-,F-,G-,H-,I-,L-,CC.09,D.18,W.09	T-,W1,XX-,WW-,EE-,AR-,AH-,AQ-,AN-,AL-,AT-,M-,LL-,AU-	XI
			acres						.18			.71		.09	2.23		.18	1.60		3.56			
46	Cat Point Creek and Muddy Run	55.17	%						1		--	1	--	2	25		--	21		45	A-,CC-,B-,C-,D-,E-,F-,L-,N1,W3,N.55,W1.66,M.55	AU-,M1,AS-Bidens over-growing arrow arum and pickerelweed	XI
			acres						.55			.55		1.10	13.79			11.59		24.83			

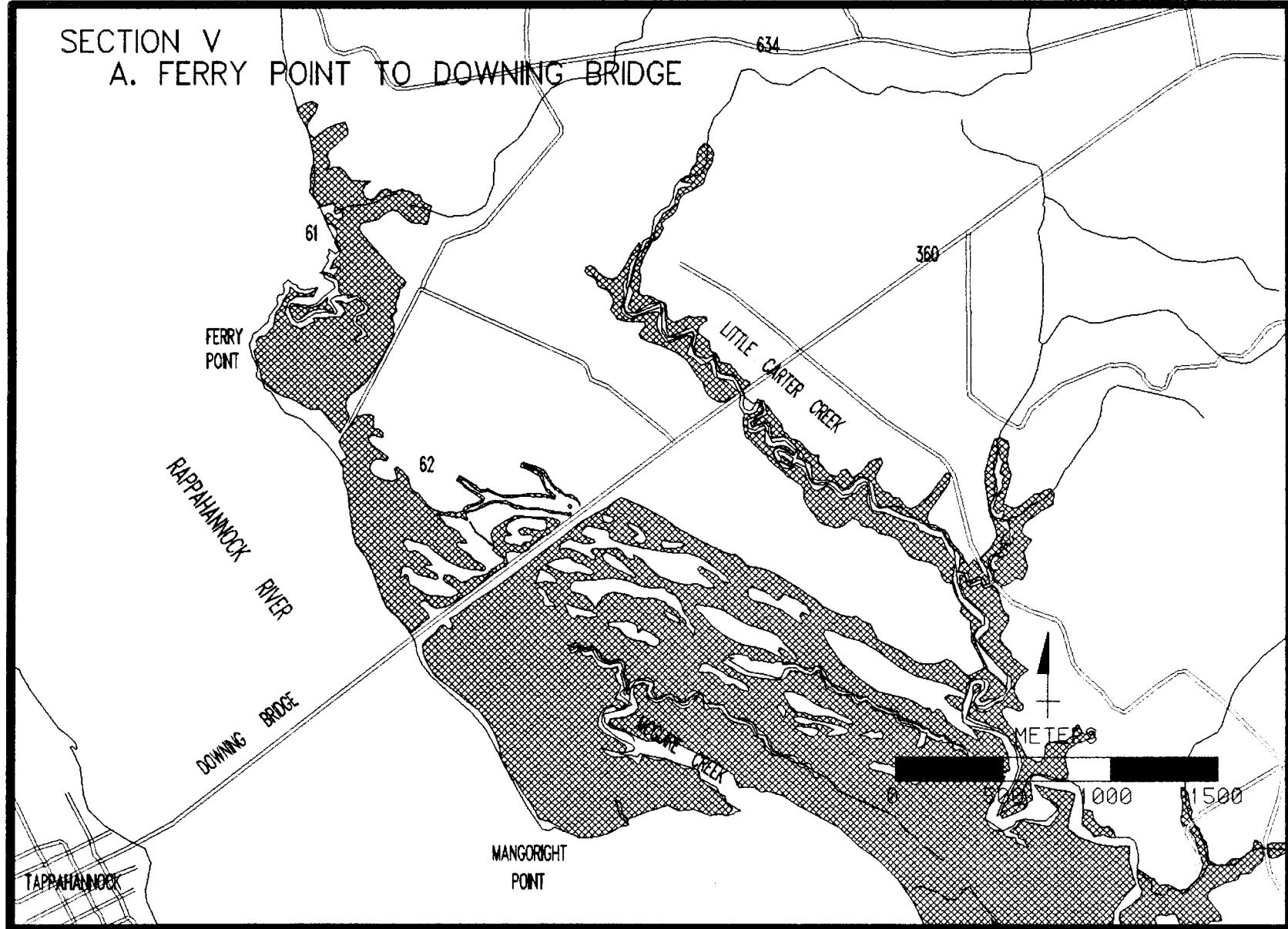
#### IV. Cat Point Creek.

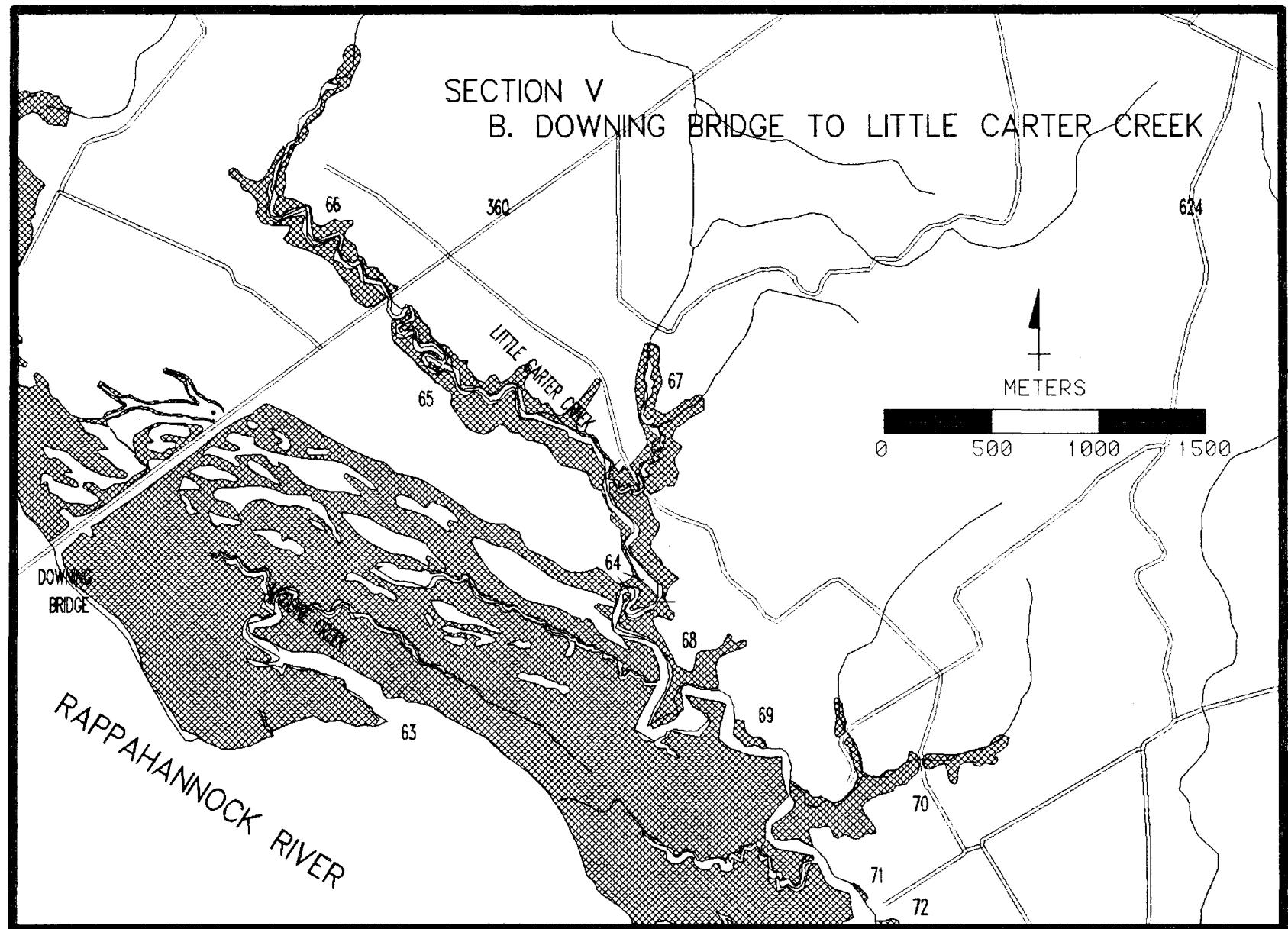
#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jeweled	Rice Cutgrass	Wild Rice	Odney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
		%																					
47	Cat Point Creek	20.18	%						20		--	5		--	9		--	20		40	CC1,B1,C1,D1, E-,H-,K-,L-,W1,	M1,AU- CC.20,B.20,D.20, W.20,M.20,C.20	XI
			acres						4.04			1.01			1.82			4.04		8.07			
48	Cat Point Creek	32.69	%						--			--			10			65		18	B-,W7	Invading oxbow area; very little open water left	XI
			acres												3.27			21.25		5.88	W2.29		
49	Cat Point Creek	21.03	%						7		--	1			18		3	30		40	CC-,B1,C-,D-,F-, H-,Y-,Z-	B.21	XI
			acres						1.47			.21			3.79		.63	6.31		8.41			
50	Cat Point Creek	6.11	%	--					12		--	10	--	--	51		20	5		1	CC-,C-,D1,E-,F-, H-,Y-,Z-	D.06	VII
			acres						.73			.61			3.12		1.22	.31		.06			
51	Cat Point Creek	32.47	%	--		1			5		--	1	2	--	50	--	30	1		10	B-,C-,F-,H-,Y-, AQ-	B.25	VII
			acres			.32			1.62			.32	.65		16.24		9.74	.32		3.25			
52	Cat Point Creek	70.13	%	--		45			25		--	2	--		25	--	1	--		2	B-,C-,D-,K-,H-, Z-,Y-	1.40	XII
			acres			31.56			17.53			1.40			17.53		.70			1.40			
53	Cat Point Creek	3.88	%	2		1			25			2			66		1	1		--	C2	C.08	VII
			acres	.08		.04			.97			.08			2.56		.04	.04					
54	Cat Point Creek	44.51	%	5		75			2		--	5	--	--	8	--	4			--	CC-,C-,D-,H-,Y1, Z-,AP-	Large marsh with fringe x 40'	V
			acres	2.23		33.38			.89			2.23			3.56		1.78						

#### IV. Cat Point Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Odney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
55	Cat Point Creek	1.00	%	15		10			-			5		-	30						C2,D-,F-,Z-,H-,Y-	Four pocket marshes with fringe x 10'	XI
			acres	.15		.10						.05			.30							C.02	
56	Cat Point Creek	21.56	%	30		25					1	1	--	1	25		1	15			--	B1,C-,D-,H-,L-,Y-,EE-	XII
			acres	6.47		5.39					.22	.22		.22	5.39		.22	3.23			--	B.22	
57	Cat Point Creek	26.67	%	25		63			--		--	5		--	5	--	1	--			--	II-,CC1,D-,H-,Y-,AP-,Z-	V
			acres	6.67		16.80						1.33			1.33		.27					CC.27	
58	Cat Point Creek	21.11	%	30		59			2		--	2	--	--	5						--	II-,AA-,D1,Y1,Z-	Large salt marsh cordgrass meadow
			acres	6.33		12.45			.42			.42			1.06							D.21,Y.21	
59	Cat Point Creek	.91	%	1					--	30		47									A-,CC-,AA1,O20,B-,C-,D1,H-,Y-	AA.01,O.18,D.01	
			acres	.01					.27			.43										AA.01,O.18,D.01	
60	Cat Point Creek	.76	%	25	--	8		1	18	--		11			1				--		A-,II-,CC-,Y1,Z-,AA30,C-,D-,E5	Pocket marsh	
			acres	.19		.06		.01	.14			.08			.01							Y.01,AA.23,E.04	
T	Total Section IV	931.09	%																		25.87		
			acres	25.44	1.04	277.72		.01	63.30			.22	37.55	4.68	3.76	203.06	1.32	41.42	70.66	.84	174.23		

SECTION V  
A. FERRY POINT TO DOWNING BRIDGE



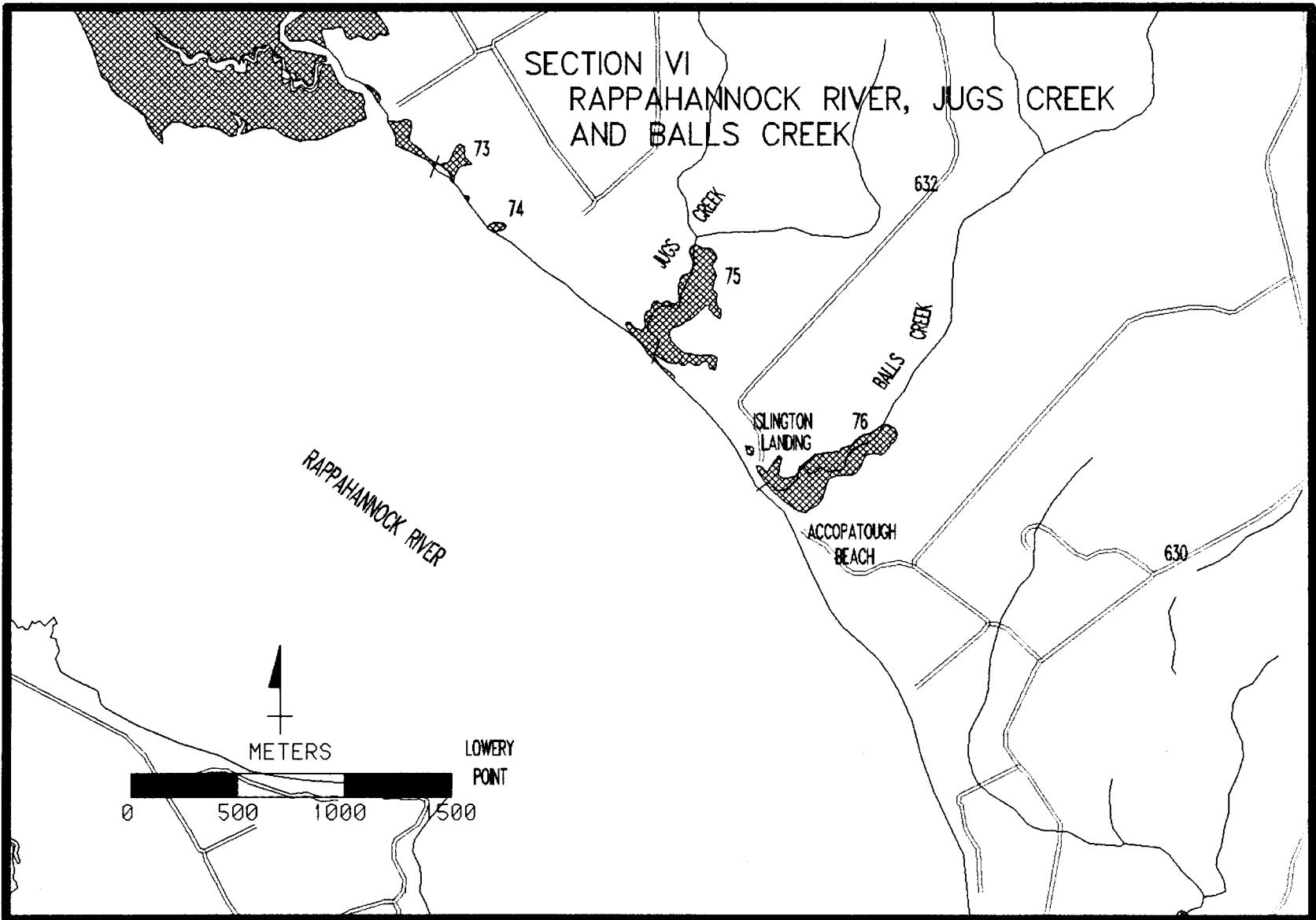


## V. Ferry Point to Little Carter Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
			%	23	3	70			--		--	1	--	1	--	--	1	--	--				
61	Ferry Point	120.18	%	23	3	70			--		--	1	--	1	--	--	1		--		II-,CC-,JJ-,GG-,Z-,AA1,B-,C-,D-,AA1.20	H-,Y-	V
			acres	27.64	3.61	84.13						1.20		1.20			1.20					AA1.20	
62	Rappahan-nock River	71.51	%	--	15	60		--	5		--	7	--	1					10		A-,II-,CC2,Z-,AA-,SS-,B-,D-,G-,Y-,CC1.43	AR-,KK-	V
			acres		10.73	42.91			3.58			5.01		.72					7.15				
63	McGuire Creek	823.25	%	12	10	65		10	--	--	1	1		-					1		A-,II-,CC-,Z,JJ-,AA-,SS-,MM-,B-,AB-,TT-	G-,GG-,Y-,AB-,TT-	V
			acres	98.79	82.33	535.11		82.33			8.23	8.23							8.23				
64	Little Carter Creek	4.84	%	36	1	55		--	1	--	5	1		--					1		II-,CC-,MM-,G-,Z-	Island and point marsh	V
			acres	1.74	.05	2.66			.05		.24	.05							.05				
65	Little Carter Creek	56.44	%	58	15	25		--	--	--	2		--	--				--	--		II-,CC-,AA-,MM-,C-,F-,G-,AP-,Z-	I	I
			acres	32.74	8.47	14.11						1.13											
66	Little Carter Creek	38.97	%	50	--	--		--	1	--	4	7		3	--		--	--	30		A-,II5,AA-,OO-,B-,C-,F-,G-,AR-	Z-	I
			acres	19.49					.39		1.56	2.73		1.17					11.69		II1.95		
67	Little Carter Creek	40.71	%	35	37	25		1	--	--	--	1		--	--			1	--		A-,II-,CC-,AB-,AA-,MM-,B-,C-,	G-,L-,Z-Creek marsh with broad fringe	XII
			acres	14.25	15.06	10.18		.41				.41							.41				
68	Little Carter Creek	19.09	%	20	10	67		3	--	--	--	--		--				--			II-,J-,Z-	V	V
			acres	3.82	1.91	12.79		.57															

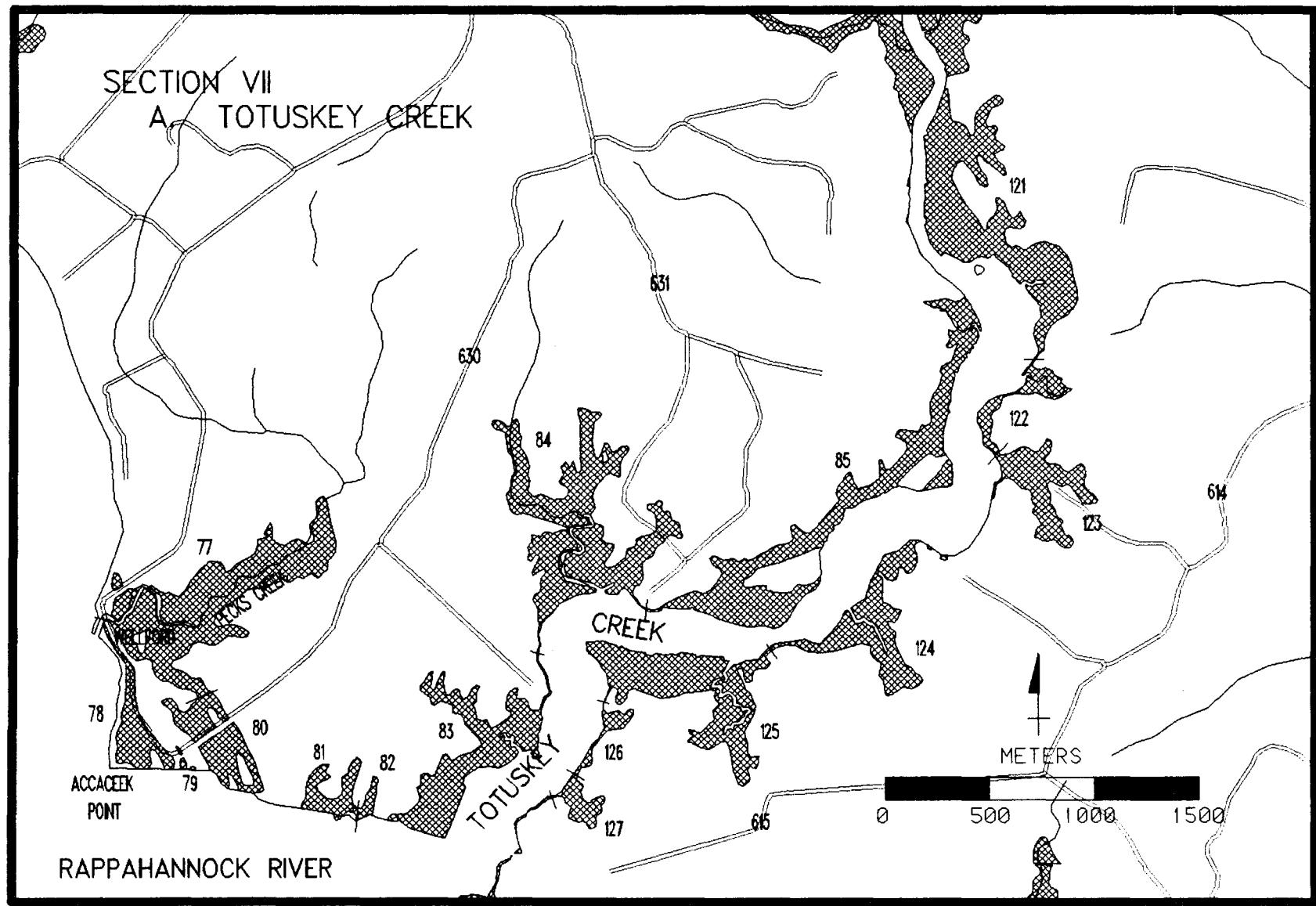
## V. Ferry Point to Little Carter Creek.

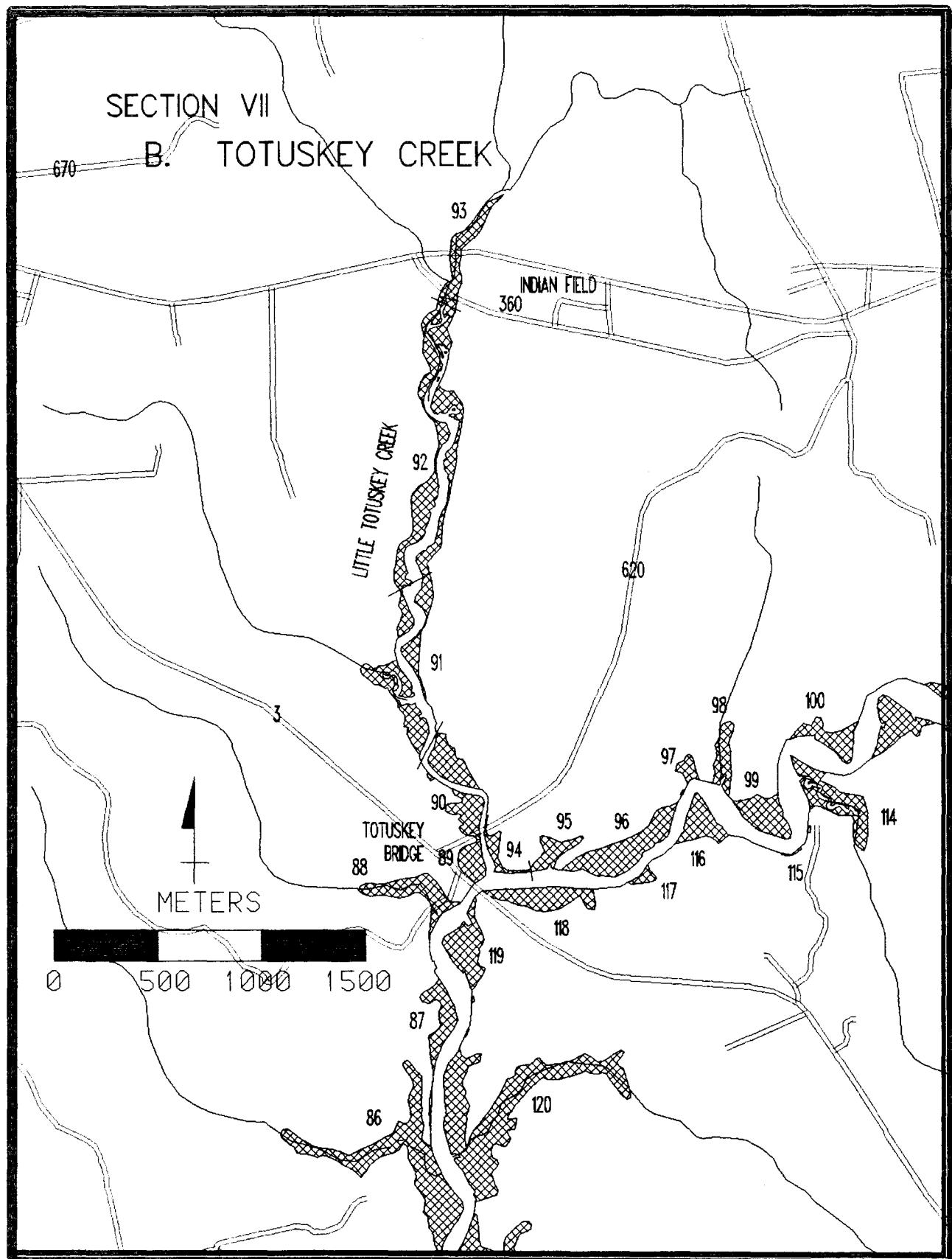
#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Odney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
			%	60	5	34		-	1		-	-		-							II-,C-,Z-		
69	Little Carter Creek	2.26	%	60	5	34		-	1		-	-		-							II-,C-,Z-	Broad extensive marsh	I
			acres	1.36	.11	.77			.02														
70	Little Carter Creek	35.84	%	3	17	70		5	--	-	2	1		-	-	1		1		A-,II-,B-,K-,Y-,Z-		V	
			acres	1.08	6.09	25.09		1.79			.72	.36				.36		.36					
71	Little Carter Creek	.25	%	30	8	20		20			-	-		-	1	1				II-,D-,J20,Z-		XII	
			acres	.08	.02	.05		.05						-	-					J.05	Sandbar with marsh inside cove		
72	Mouth of Little Carter Creek	3.34	%	7	40	40		-	2		-	-		-				10	II-,MM-,D1,Z-		Large pocket marsh	XII	
			acres	.23	1.34	1.34			.07									.33	D.03				
T	Total Section V	1216.68	%																				
			acres	201.22	129.72	729.14		85.15	4.11		10.75	19.12		3.09		1.56	.41	16.12	11.69	4.66			
			%																				
			acres																				
			%																				
			acres																				

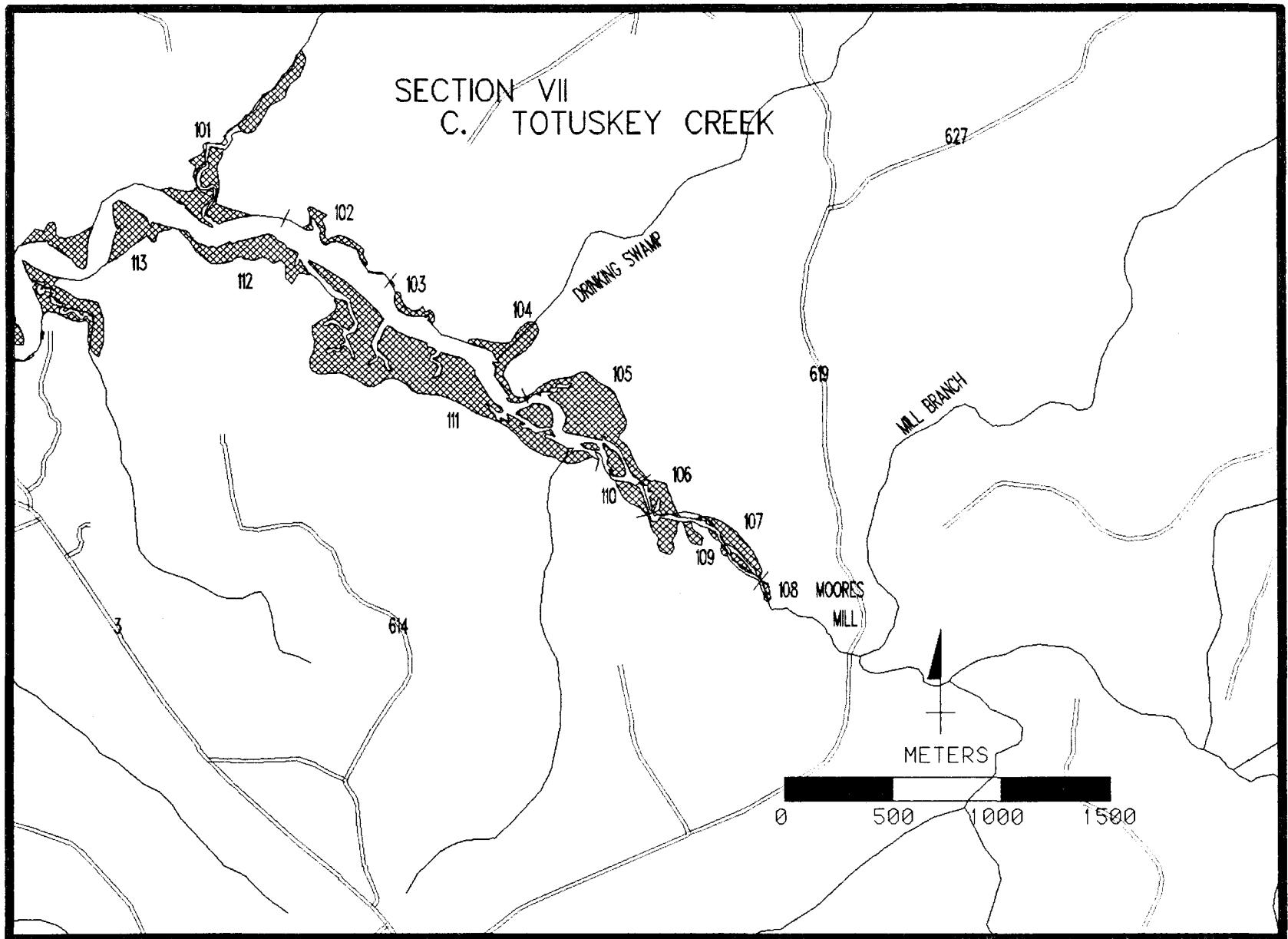


## VI. Rappahannock River, Jugs Creek and Balls Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Teathumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Olsney Threesquare	Beggars Ticks	Others	Observations	Marsh Type	
			%	2	.05	90		--		--		6				2	--	Z-						
73	Rappahannock River	2.31	%																				Pocket marsh	V
			acres		.05	2.08							.14				.05							
74	Rappahannock River	.52	%		--	2		15	3			70		--	--	--	3					CC2,F-,G-,Z5	Small pocket marsh	XI
			acres			.01		.08	.02				.36					.02				CC.01,Z.03		
75	Jugs Creek	23.95	%	2	1	65		1	1		--	5		2	1	--	17	5			II-,AA-,SS-,C-,D-, Z-		V	
			acres	.48	.24	15.57		.24	.24			1.20		.48	.24		4.07	1.20						
76	Balls Creek	22.28	%	20	16	45		4	5	--	--	3		1	1		--	5			II-,AA-,SS-,F-,Z-, AB-		XII	
			acres	4.46	3.56	10.03		.89	1.11				.67		.22	.22			1.11					
T	Total Section VI	49.06	%																					
			acres	4.94	3.85	27.69		1.21	1.37				2.37		.70	.46		4.14	2.31			.04		
			%																					
			acres																					
			%																					
			acres																					
			%																					
			acres																					







## VII. Totuskey Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
			%	19	30	20	1	25	--	--	--	--	--	2	--	--	--	3	A-II-AA-MM-B-RR-Z-				
77	Pecks Creek	75.72	%	19	30	20	1	25	--	--	--	--	--	2	--	--	--	3	A-II-AA-MM-B-RR-Z-	Very diverse mixed brackish marsh	XII		
			acres	14.39	22.72	15.14	.76	18.93						1.51				2.27					
78	Accaceek Point	17.72	%	3	59	20	3	--										15	AB-	Beach around perimeter	II		
			acres	.53	10.45	3.54	.53											2.66					
79	Rappahan-nock River	.25	%		20														CC5,AL75,Z-	Pocket marsh behind dune	XI		
			acres		.05														CC.01,AL.19				
80	Rappahan-nock River	22.28	%	4	40	10	15	1		--	--	--						30	A-II-AB-JJ-AA-D-	Extensive marsh	XII		
			acres	.89	8.91	2.23	3.34	.22										6.68					
81	Rappahan-nock River	9.05	%	10	50	25	--	5	5	--	--	--	--					5	A-II-AB-AA-D-	Double pocket marsh	II		
			acres	.91	4.53	2.26		.45	.45									.45					
82	Rappahan-nock River	2.27	%	25	40	22	--	--	8	--	--	--	--					5	A-II-AB-MM-	Small creek marsh	XII		
			acres	.57	.91	.50			.18									.11					
83	Mouth of Totuskey Creek	46.22	%	5	7	82	--	1	3	--	1	--						1	II-AB-AA-D-	Extensive marsh	V		
			acres	2.31	3.24	37.90		.46	1.39		.46							.46					
84	Totuskey Creek	75.80	%	--	1	85		--	11	--	1	--						1	II-CC-AB1,SS-	AB.76	V		
			acres		.76	64.51			8.35		.76							.76					

## VII. Totuskey Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needleush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cangrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
			%	1	--	98			1			--					:						
85	Totuskey Creek	77.14	%	1	--	98			1			--					:				CC-,SS-,D-		V
			acres	.77		75.60			.77														
86	Totuskey Creek	35.30	%		--	99			1			--	--				--				CC-,SS-,Z-	Almost pure stand of big cordgrass	V
			acres			34.95			.35														
87	Totuskey Creek	7.98	%	1	--	96			--			--	1		1		1				CC-,C-,D-	Big cordgrass dominating extensive marsh	V
			acres	.08		7.66						.08			.08		.08						
88	Totuskey Creek	10.62	%			95			--			--	4	--	1						CC-,Z-	Creek marsh	V
			acres			10.09						.42			.11								
89	Totuskey Creek	4.78	%			90			1			7		2		--					CC-,Z-	Hibiscus pocket in center of marsh	V
			acres			4.30			.05			.33		.10									
90	Little Totuskey Creek	14.56	%	--	1	60			11		3	6	5	2	--	--	6	--	2	1	II1,B2,C-,D-,G-,L-,Z-		V
			acres		.15	8.74			1.60		.44	.87	.73	.29			.87		.29	.15	II.15,B.29		
91	Little Totuskey Creek	17.95	%		--	30			15		1	7	10	3	15	2	5	5		2	II-,B3,EE-,Z-,C-,D1,M1,K-,Y-,OO-		XI
			acres			5.39			2.69		.18	1.26	1.80	.54	2.69	.36	.90	.90		.36	B.54,D.18,M.18		
92	Little Totuskey Creek	33.00	%		--				--		--	1	8	3	20	1	5	35		25	B-,C-,E-,G-,H-,I-,J-,K-,L-,W2,EE-,WW.66	AU-	XI
			acres									.33	2.64	.99	6.60	.33	1.65	11.55		8.25			

## VII. Totuskey Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needleush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Teathumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type	
#	Marsh Location	Total Acres		%																				
93	Little Totuskey Creek	6.30	%								--	5	25	10	20	5	15				E-,G-,I-,X-,Y-,K-, M10,EE-,AL-,U-, M.63,N.32,W.32	N5,W5,AT-XI		
			acres									.32	1.58	.63	1.26	.32	.95							
94	Little Totuskey Creek	3.09	%			40			40			5			15					--	C-,D-,F-	XII		
			acres			1.24			1.24			.15			.46									
95	Totuskey Creek	5.03	%	--		80			5			7			8					Z-	Pockets of cattail, arrow arum and pickerelweed	V		
			acres			4.02			.25			.35			.40									
96	Totuskey Creek	16.66	%			75			13	--	--	5	--	--	5	1	1	1	1	CC-,B-,Z-	Arrow arum and pickerelweed fringe	V		
			acres			12.50			2.17			.83			.83	.17	.17	.17	.17					
97	Totuskey Creek	2.38	%	--		35			55			2			8		--			Z-	Arrow arum and pickerelweed fringe	VI		
			acres			.83			1.31			.05			.19									
98	Totuskey Creek	5.59	%			--			93		--	2	--		5	--	--			C-,D-,Z-	Arrow arum and pickerelweed fringe along creek	VI		
			acres						5.20			.11			.28									
99	Totuskey Creek	9.50	%	--		50			25	--		20			5	--	--	--	--	D-,Z-	Large stand of cattail in center	V		
			acres			4.75			2.38			1.90			.48									
100	Totuskey Creek	7.15	%			25			55	--	--	15		--	5	--	--			D-,I-,Z-		VI		
			acres			1.79			3.93			1.07			.36									

## VII. Totuskey Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Teathumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Olmey Threesquare	Beggars Ticks	Others	Observations	Marsh Type	
#	Marsh Location	Total Acres	%																		Very diverse marsh	XI		
			acres																					
101	Totuskey Creek	20.22	%						5		--		1	--	44	10	5	20		10	CC-, C-, F-, I-, J1, N-, W1	Very diverse marsh	XI	
			acres						.61				1.01			.20		8.90	2.02	1.01	4.04		J.20,W.20	
102	Totuskey Creek	1.21	%						--	--	--		1	--	--	45	5	3	45		1	D-, F-, G-, I-, W-, X-	Fringe x 30'	XI
			acres										.01				.54	.06	.04	.54		.01		
103	Totuskey Creek	.62	%						5	--	--					50	3	2	40		--	C-, D-, F-, I-, K-	Fringe x 30'	VII
			acres						.03								.31	.02	.01	.25				
104	Totuskey Creek	8.82	%								1				--	35	5	1	53		5	C-, I-, W-		VI
			acres								.09					3.09	.44	.09	4.67		.44			
105	Totuskey Creek	22.81	%						60		--		3	--		15	1	1	18		2	C-, F-, H-, I-, J-, W-, X-	Dominated by cattails	XI
			acres						13.69				.68				3.42	.23	.23	4.11		.46		
106	Totuskey Creek	3.57	%													17	1	20	60		2	CC-, F-, H-, I-, K-, W-, X-		XI
			acres														.61	.04	.71	2.14		.07		
107	Totuskey Creek	5.34	%								--					30	15	22	30		1	C-, F-, H1,I-, K-, W1,AG-		XI
			acres														1.60	.80	1.17	1.60		.05	H.05,W.05	
108	Totuskey Creek	.44	%								--					20	40	20	15			J-,W5		XI
			acres														.09	.18	.09	.07			W.02	

## VII. Totuskey Creek.

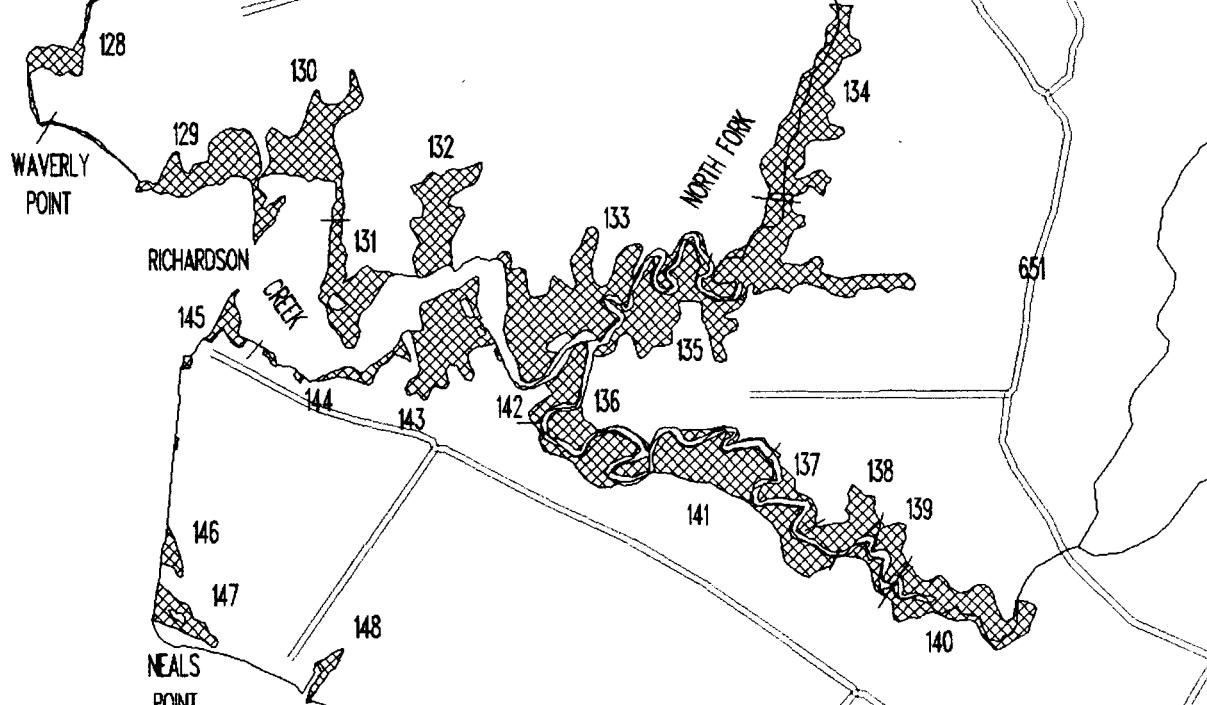
#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oiley Threesquare	Beggars Ticks	Others	Observations	Marsh Type
109	Totuskey Creek	5.72	%									--	--		35	5	10	47			CC-,C1,F1,H1,I-,J-,W-		XI
			acres												2.00	.29	.57	2.69			C.06,F.06,H.06		
110	Totuskey Creek	2.67	%						--		--	--	1		50	9	5	32		2	C-,F1,H-,K-,W-		VII
			acres										.03		1.34	.24	.13	.85		.05	F.03		
111	Totuskey Creek	71.01	%						5				--	1	40	2	5	40		2	CC-,C-,F5,G-,I-,W-,X-	Large diverse freshwater marsh	XI
			acres						3.55					.71	28.40	1.42	3.55	28.40		1.42	F3.55		
112	Totuskey Creek	12.12	%						40			15		--	40	1	3	1		--	C-,X-		XI
			acres						4.85			1.82			4.85	.12	.36	.12					
113	Totuskey Creek	9.19	%	2					45		--	20			30	--	1	--			CC-,C1,I-,N-,X1,Z-		XI
			acres	.18					4.14			1.84			2.76		.09				C.09,X.09		
114	Totuskey Creek	11.91	%			40			15		--	15			23	1	4	--			B1,C1,D-,Z-,G-,H-,I-,N-,X-		XI
			acres			4.76			1.79			1.79			2.74	.12	.48				B.12,C.12		
115	Totuskey Creek	.25	%			70						5		--	5				20	--	AL-	Fringe marsh x 40'	
			acres			.18						.01			.01				.05				
116	Totuskey Creek	7.27	%	--		65			10			15		--	10		--				CC-,C-,D-,Z-		V
			acres			4.73			.73			1.09			.73								

## VII. Totuskey Creek.

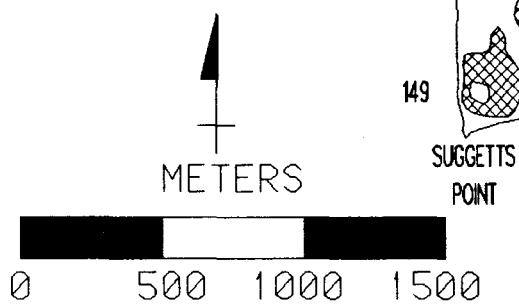
#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Aum & Pickerelweed	Jeweled	Rice Cutgrass	Wild Rice	Odney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
117	Totuskey Creek	1.54	%	--		70		--	3			20			7	--					CC-, C-, D-, NN-, Z-		V
			acres			1.08			.05			.31			.11								
118	Totuskey Creek	10.95	%	--		90		--	5	--		3		--	2	--					CC-		V
			acres			9.86			.55			.33			.22								
119	Totuskey Creek	10.69	%	--		96		--	1			2		--	--	--					CC-, SS1, D-, Z-	Dominated by big cordgrass	V
			acres			10.26			.11			.21									SS.11		
120	Totuskey Creek	45.68	%	1		96		--	1	--		1		--	--	--			1		II-, CC-, AA-, SS-, C-, Z-	Dominated by big cordgrass, stands of cattails & threesquare	V
			acres	.46		43.85			.46			.46							.46				
121	Totuskey Creek	80.03	%	2	--	92		--	2	1	--	--	2	--	--	--	--		1		CC-, AB-, SS-, C-, D-, Z-	Completely dominated by big cordgrass	V
			acres	1.60		73.63			1.60	.80			1.60						.80				
122	Totuskey Creek	10.52	%	1		96						1							--		CC-, C-, D-, Z-	Completely dominated by big cordgrass	V
			acres	.11		10.31						.11											
123	Totuskey Creek	23.37	%	--	1	68		--	30			1							--		C-, D-, X-		V
			acres		.23	15.89			7.01			.23											
124	Totuskey Creek	33.76	%	1	15	80		1	--	--	--	--						3		II-, AB-, SS-, MM-, C-, D-, Z-		V	
			acres	.34	5.06	27.01		.34										1.01					

## VII. Totuskey Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumia	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oiney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
125	Totuskey Creek	52.45	%	4	10	67	--	15	--					--					4		II,-AB,-SS-	Extensive marsh and creek marsh	V
			acres	2.10	5.25	35.14		7.87											2.10				
126	Totuskey Creek	3.34	%	20	51	25	--		--	--									3		II,-D1	Two pocket marshes connected by fringe x 10'	II
			acres	.67	1.70	.84													.10		D.03		
127	Totuskey Creek	6.17	%	15	53	15	--	1	10		--	--							5		A,-AA,-D1	Small creek marsh	II
			acres	.93	3.27	.93		.06	.62										.31		D.06		
T	Total Section VII	968.10	%																				
			acres	26.66	67.41	537.02	4.63	28.33	72.50	.80	1.93	16.96	8.58	4.67	75.56	6.99	13.15	61.93	18.68	13.28	9.13		
			%																				
			acres																				
			%																				
			acres																				
			%																				
			acres																				



SECTION VIII  
WAVERLY POINT TO SHARPS



RAPPAHANNOCK RIVER

SHARPS

## VIII. Waverly Point to Sharps.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
			%	--	25	68		1		1											D5, AR-	Planted marsh	V
128	Waverly Point	4.29	%	--	25	68		1		1											D5, AR-	Planted marsh	V
			acres		1.07	2.92		.04		.04											D.21		
129	Mouth of Richardson Creek	13.18	%	3	55		--	1	1			--									AA-		II
			acres	.40	7.25			.13	.13											5.27			
130	Richardson Creek	18.46	%	15	20	17	1	40	1	--			1							5	Creek marsh	XII	
			acres	2.77	3.69	3.14	.18	7.38	.18				.18							.92			
131	Richardson Creek	12.05	%	15	25	18	2	20			--									20	Very diverse point marsh	XII	
			acres	1.81	3.01	2.17	.24	2.41												2.41			
132	Richardson Creek	12.56	%	--	30	30		30	--			--								10	Creek marsh	XII	
			acres		3.77	3.77		3.77												1.26			
133	Richardson Creek and North Fork	25.80	%	12	18	40		10	--	--	--	--								20	II-, AB-, Z-	XII	
			acres	3.10	4.64	10.32		2.58												5.16			
134	North Fork	23.97	%	1		1			65	--		8	--		20	1	3	1	--	X-, Z-		VI	
			acres	.24		.24			15.58			1.92			4.79	.24	.72	.24					
135	North Fork	45.85	%	3	3	89		--	1	--	--	1		--	--	--	--		3	II-, AB-, Z-, JJ-, C-		V	
			acres	1.38	1.38	40.81			.46			.46								1.38			

## VIII. Waverly Point to Sharps.

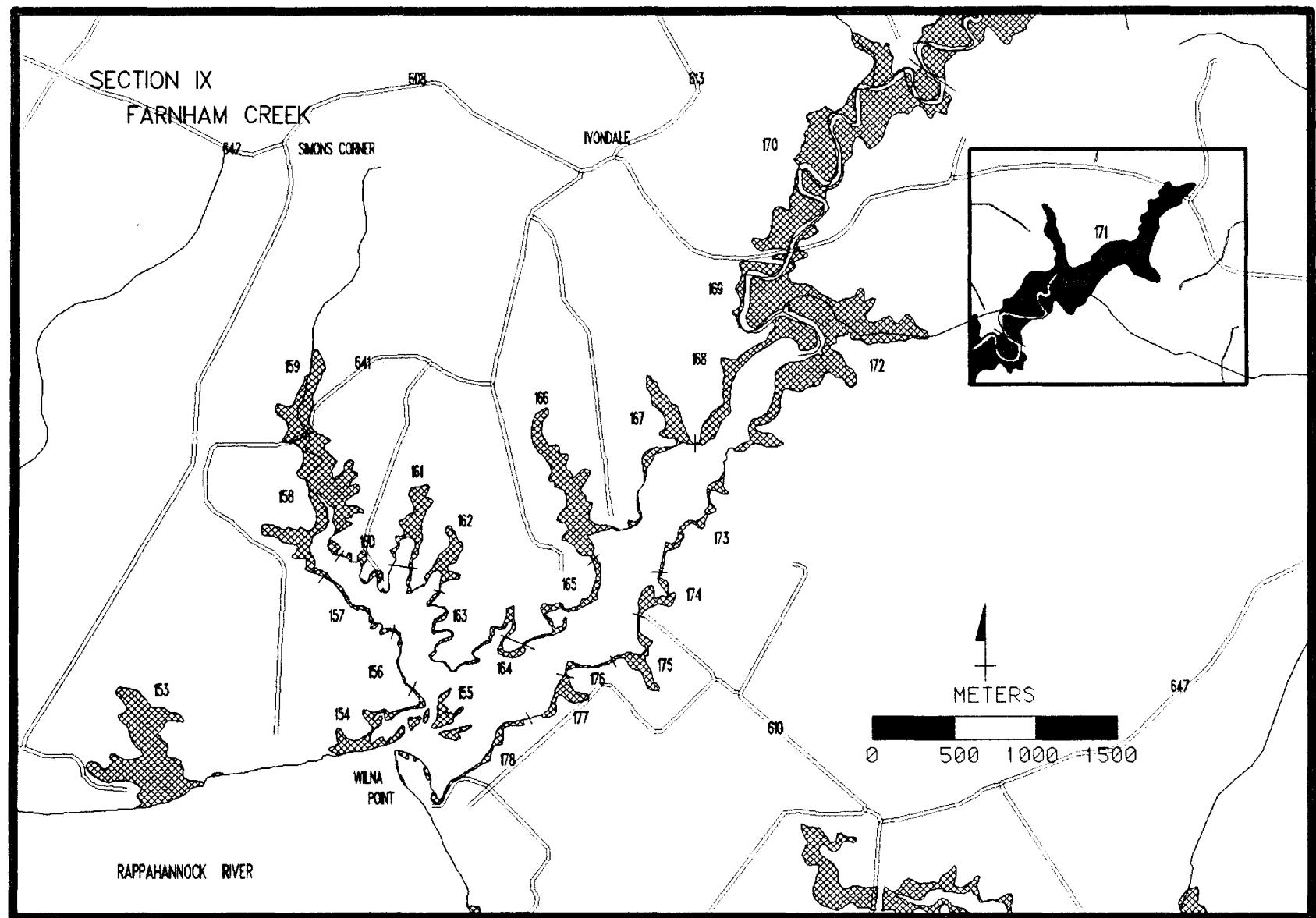
#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Teathumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Olnay Threesquare	Beggars Ticks	Others	Observations	Marsh Type
#	Marsh Location	Total Acres	%	1	10	68		1		--	--	--		--						AB-,Z-		V	
			acres	.04	.42	2.88		.04															
136	Richardson Creek	4.24	%	20	--	75			--	--	5	--	--	--	--					FF-,AB-,Z-			
137	Richardson Creek		acres	.52		1.97					.13												
138	Richardson Creek	8.21	%	40		53			1	--	--	5	--	--	1	--	--			C-,Z-			
139	Richardson Creek		acres	3.28		4.35			.08			.41			.08					CC-,AB-,Z1,JJ-,C-,D-,S-,AP-,FF-			
140	Richardson Creek	16.23	%	40		50				--	1	1	--	--	5	1	1	--		Z.06			
141	Richardson Creek		acres	2.31		2.89					.06	.06			.29	.06	.06			C-,D1,F-,Z-		XI	
142	Richardson Creek	5.92	%	2	5	78		3	--	--	--	7	--	--	--		5		AB-,JJ-,SS-,C-,Z-				
143	Richardson Creek		acres	.56	1.39	21.73		.84				1.95						1.39					
			%	--	15	65		10	--	--	--	--						10	CC-,AB-,JJ-,MM-,Z-				
			acres		.89	3.85		.59										.59					
			%	3	5	45		39	--	--	--	--						8	CC-,AB-	Large extensive marsh	XII		
			acres	.48	.79	7.13		6.18										1.27					

## VIII. Waverly Point to Sharps.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oiney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
			%	42	10	40		2	--	--													
144	Richardson Creek	.50	%	42	10	40		2	--	--											II-,AB1,D5,Z-	Two small pocket marshes and fringe x 12'	XII
			acres	.21	.05	.20		.01													AB.01,D.03		
145	Mouth of Richardson Creek	2.11	%	15	25	45	--	15		--		--									SS-,D-	Spit marsh	XII
			acres	.32	.53	.95		.32															
146	Rappahannock River	1.53	%	1	43	5		45		1		5										Very high marsh behind beach in slight depression	XII
			acres	.02	.66	.08		.69		.02		.08											
147	Neals Point	3.98	%	--	70	--	17	10		--		--		--				3			Embayed marsh		II
			acres		2.79		.68	.40										.12					
148	Rappahannock River	1.58	%	5	10	--		40	45	--	--	--									CC-,AB-	Pocket marsh at head of canal behind bulkhead	XII
			acres	.08	.16			.63	.71														
149	Suggetts Point	10.63	%	5	70	--	--	25	--	--	--							--		AB-	Embayed marsh with tidal pond		II
			acres	.53	7.44			2.66															
150	Rappahannock River	10.86	%	1	55	10	--	14	--	--								20		A-,AB-	Large creek marsh cut off by beach berm		II
			acres	.11	5.97	1.09		1.52										2.17					
151	Rappahannock River	48.94	%	15	34	20	--	30	--	--	--							--		A-,II-,CC-,AB1, MM-			XII
			acres	7.34	16.64	9.79		14.68												AB.49			

### VIII. Waverly Point to Sharps.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattail	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Olney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
152	Myrtle Swamp	24.20	%	27	40	1	--	30	--	1											A-,AB-AA-	New spoil and bulkheading; creek rerouted around spoil	XII
			acres	6.53	9.68	.24		7.26		.24													
T	Total Section VIII	347.19	%																				
			acres	35.28	72.22	120.68	1.10	52.13	18.11	.30	.06	8.44				9.22	.30	1.59	3.81	23.03	.96		
			%																				
			acres																				
			%																				
			acres																				
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			acres																				
			%																				
			acres																				
			%																				
			acres																				



## IX. Farnham Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Odney Threesquare	Beggars Ticks	Others	Observations	Marsh Type	
			%	1	34	10		45	5	--								5		AB-SS-				
153	Rappahan-nock River	31.02	%	1	34	10		45	5	--									5	1.55		AB-SS-	Large creek marsh	XII
			acres	.31	10.55	3.10		13.96	1.55															
154	Wilna Point	7.53	%	40	13	30	--	14	2	--		--									AB-	Cove spit marsh	XII	
			acres	3.01	.98	2.26		1.05	.15												.08			
155	Farnham Creek	4.40	%	95	--	5		--		--											AB-	Islands at mouth of creek	I	
			acres	4.18		.22																		
156	Farnham Creek	.19	%	50	5	35	--	10		--												Fringe and small pocket marsh	I	
			acres	.10	.01	.07		.02																
157	Farnham Creek	.28	%	50	12	25		--	5	8		--							--	II-JJ-Z-	Series of small pocket marshes and fringe x 7'	I		
			acres	.14	.03	.07			.01	.02														
158	Farnham Creek	25.86	%	30	20	40		5	--	2	--								2	II-AB1	Lower end of creek marsh	XII		
			acres	7.76	5.17	10.34		1.29		.52									.52	AB.26				
159	Farnham Creek	10.35	%	1	10	85		2	1		--	--	--						1	A-II-AB-AA-	Upper end of creek marsh	V		
			acres	.10	1.04	8.80		.21	.10										.10					
160	Farnham Creek	.71	%	45	4	35		--	15	1	--	--								AB-	Two small pockets	XII		
			acres	.32	.03	.25			.11	.01														

## IX. Farnham Creek.

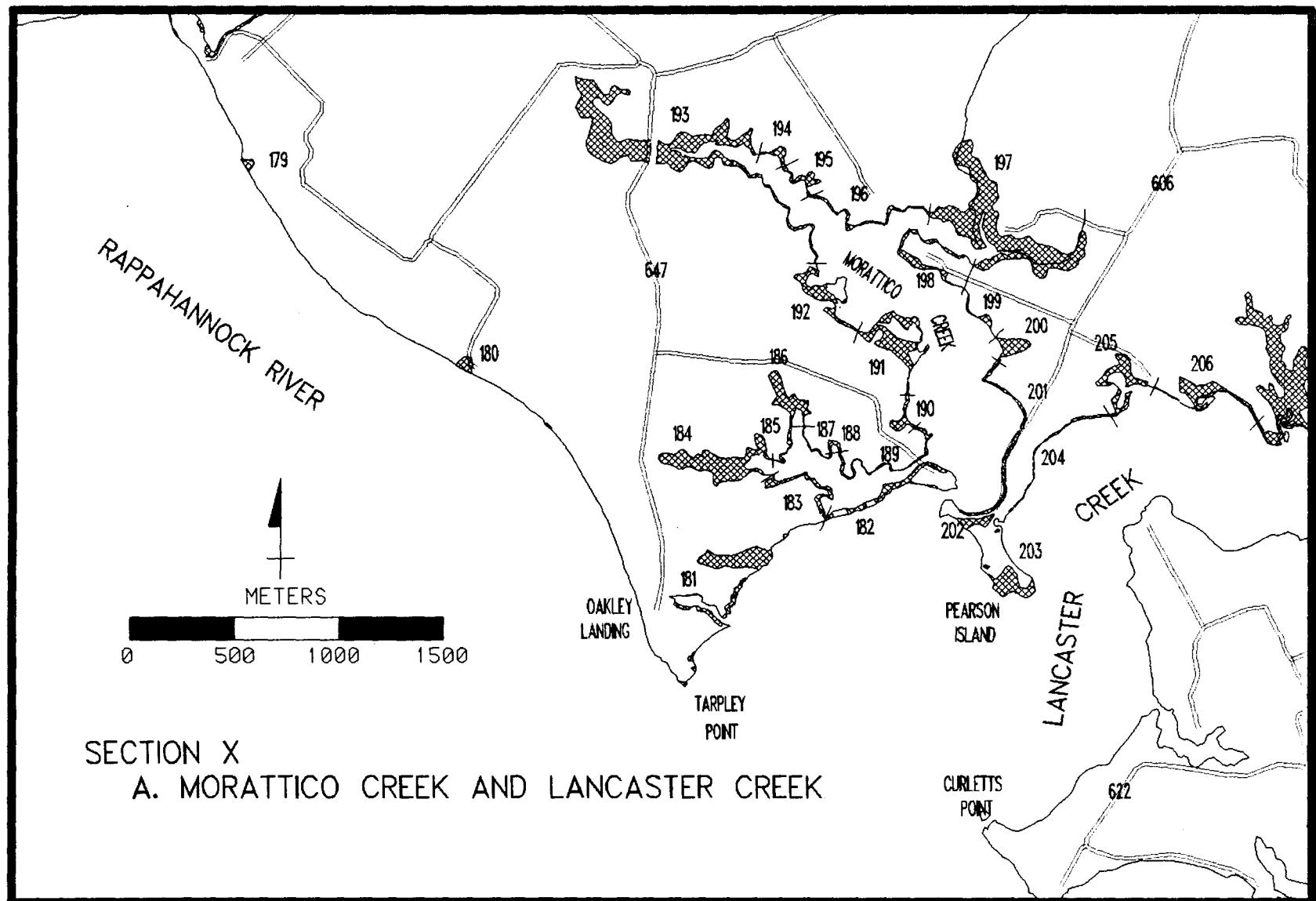
#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	B & G Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oiney Threesquare	Beggars Ticks	Others	Observations	Marsh Type	
161	Farnham Creek	7.51	%	47	5	47	--	--	--	1	--	--	--	--	--	--	--	--	--	--	--	Creek marsh	XII	
			acres	3.53	.38	3.53				.08														
162	Farnham Creek	4.37	%	60	20	16		--	1	2	--										1		Small creek marsh with large pocket and fringe	I
			acres	2.62	.87	.70			.04	.09											.04			
163	Farnham Creek	.67	%	65	3	30	--	2	--			--										SS-C-	Two small pocket marshes and fringe x 6'	I
			acres	.44	.02	.20		.01																
164	Farnham Creek	.50	%	45	15	10	--	30																XII
			acres	.23	.08	.05		.15																
165	Farnham Creek	1.50	%	50	10	35	--	5	--	--	--									--	II-,AB-,AA-,C-	Spit cove marsh with two pockets and narrow fringe	I	
			acres	.75	.15	.53		.08																
166	Farnham Creek	17.78	%	1	5	70		16	7	--	--	--								1	A-,II-,AB-	Creek marsh	V	
			acres	.18	.89	12.45		2.84	1.25											.18				
167	Farnham Creek	9.19	%	1	5	72		20	2	--	--									--	A-,II-,AB-	Creek marsh with two pockets and fringe x 15'	V	
			acres	.09	.46	6.62		1.84	.18															
168	Farnham Creek	13.67	%	13	2	85		--	--	--	--	--	--	--	--	--	--	--	--	A-,CC-,AB-,AA-,Z-			V	
			acres	1.78	.27	11.62																		

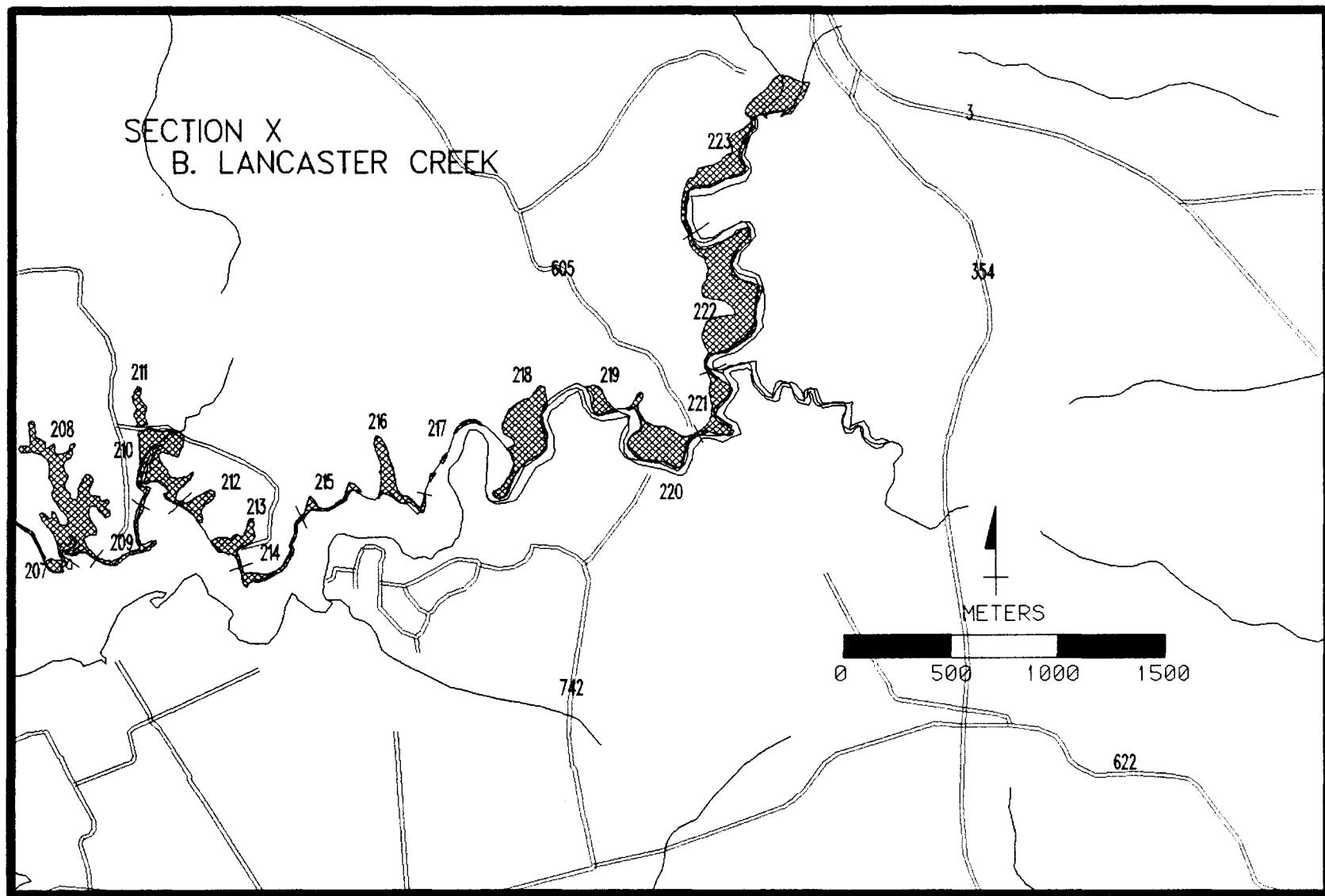
## IX. Farnham Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Teathumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
169	Farnham Creek	4.03	%		1	84		--	7	--	--	--		--				7		A,-CC1,Z-	Creek marsh	V	
			acres		.04	3.39			.28									.28		CC.04			
170	Farnham Creek	56.48	%	1	--	33			33	--	1	4	7	7	6	1	1	--	--	II4,AB-,Z,JJ-,B2,N-,C-,D-,F-,	J-,L,Y-	XII	
			acres	.56		18.64			18.64		.56	2.26	3.95	3.95	3.39	.56	.56			II2.26,B1.13			
171	Farnham Creek	68.43	%			15			30			5	15	10	20	2	1			CC-,B-,C-,X-,EE-,U-,D-,E-,F-,G-,	W-,UU-,I-,L-,N1,R-,Y1,AU-	XII	
			acres			10.26			20.53			3.42	10.26	6.84	13.69	1.37	.68			N.68,Y.68			
172	Farnham Creek	50.04	%	--	2	88	--	--	7	--	--	--	--	--	--	--		3	A-,II-,CC-,AA-,MM-,Z-	Extensive creek marsh	V		
			acres		1.00	44.04			3.50									1.50					
173	Farnham Creek	2.72	%	10	3	85		--	2		--									Small spit marsh with two small pockets and fringe x 15'	V		
			acres	.27	.08	2.31			.05														
174	Farnham Creek	2.64	%	10	30	55	--	5			--								II-	Large cove marsh	V		
			acres	.26	.79	1.45		.13															
175	Farnham Creek	3.73	%	35	40	5			12	8	--				--				--	Large pocket marsh	XII		
			acres	1.31	1.49	.19			.45	.30													
176	Farnham Creek	.40	%	15	--	50		35											Spit marsh with fringe x 8'	V			
			acres	.06		.20		.14															

## IX. Farnham Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Teathumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
#	Marsh Location	Total Acres	%	70	25	2	-	-	2	-	-	-	-	-	-	-	-	-	-	-	AB1	Large pocket marsh with fringe x 8'	I
			acres	1.55	.55	.04			.04												AB.02		
#	Marsh Location	Total Acres	%	50	25	15	--	7	2	--	--	--	--	--	--	--	--	--	--	--	AB1,Z-	Three small pocket marshes with fringe x 10'	I
			acres	1.07	.53	.32		.15	.04												AB.02		
T	Total Section IX	328.34	%																		6.46		
			acres	30.62	25.41	140.29		22.32	46.77	.72	.56	5.68	14.21	10.79	17.08	1.93	1.24						
			%																				
			acres																				
			%																				
			acres																				
			%																				
			acres																				
			%																				
			acres																				
			%																				
			acres																				





## X. Morattico Creek and Lancaster Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Teathumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oiley Threesquare	Beggars Ticks	Others	Observations	Marsh Type
			%	1	5	--		44		--	--	44		--	--								
179	Rappahan-nock River	.58	%	1	5	--		44		--	--	44		--	--						CC1,D-,Z5	Pocket marsh draining through dune	XII
			acres	.01	.03			.26				.26									CC.01,Z.03		
180	Rappahan-nock River	.83	%						15			50		--	--						CC-,SS25,Z10	Pocket marsh draining through dune	XI
			acres						.12			.42									SS.21,Z.08		
181	Morattico Creek	6.26	%	70	15		--	15		--		--									CC-,Z-	Long narrow pocket marsh	I
			acres	4.38	.94			.94															
182	Perch Creek	1.93	%	60	10	--	1	29		--											AB-,CC-	Fringe marsh inside long barrier spit, both sides	I
			acres	1.16	.19		.02	.56															
183	Perch Creek	.38	%	50	20	5		25			--										A-,CC-,AB-,AA-,MM-	Two small pocket marshes with fringe x 5'	I
			acres	.19	.08	.02		.10															
184	Perch Creek	10.70	%	20	38	--		40	--	--	2										A-,II-,CC-,AB-,AA-	Creek marsh	XII
			acres	2.14	4.07			4.28			.21												
185	Perch Creek	.30	%	40	35			25			--										A-,II-,AB-AA-	Two small pockets with fringe x 5'	XII
			acres	.12	.11			.08															
186	Perch Creek	4.41	%	15	45			30			10										A-,CC-,AB-AA-	Small creek marsh	XII
			acres	.66	1.98			1.32			.44												

## X. Morattico Creek and Lancaster Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattail	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
			%	45	35	--	--	20		--	--												
187	Perch Creek	.15	%	45	35	--	--	20		--	--										A-,II-,CC-,AB-,AA-	Two small pocket marshes with fringe x 5'	XII
			acres	.07	.05			.03															
188	Perch Creek	.40	%	25	50			25	--		--										A-,II-,Z-	Small pocket marsh	II
			acres	.10	.20			.10															
189	Perch Creek	.42	%	40	30		--	30													A-,AA-,SS-	Two pocket marshes with fringe x 8'	XII
			acres	.17	.13			.13															
190	Morattico Creek	.76	%	65	15	1	4	15														Two pocket marshes with fringe x 10'	I
			acres	.49	.11	.01	.03	.11															
191	Morattico Creek	5.73	%	20	39	1	25	15	--													Border fringe x 10'	XII
			acres	1.15	2.23	.06	1.43	.86															
192	Morattico Creek	2.88	%	20	30		20	30	--	--									--	CC-,AB-	Large cove marsh	XII	
			acres	.58	.86		.58	.86															
193	Morattico Creek	28.47	%	3	32	27	--	35	--	--	--			--				3	A-,AB-,JJ-,AA-,MM-	Long creek marsh	XII		
			acres	.85	9.11	7.69		9.96										.85					
194	Morattico Creek	.74	%	46	50	1	2	1		--	--							--	AB-	Pocket marsh	II		
			acres	.34	.37	.01	.01	.01															

## X. Morattico Creek and Lancaster Creek.

#	Marsh Location	Total Acres		Salt Marsh	Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattail	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Odney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
			%	39	42	--			1			--												
195	Morattico Creek	.93	%	39	42	--			1			--										A-,AB1,AA-	Grazed pocket marsh	XII
			acres	.36	.39				.01													.16	AB.01	
196	Morattico Creek	.32	%	35	55			10	--													AB-	Pocket and spit marsh with fringe x 5'	II
			acres	.11	.18			.03																
197	Morattico Creek	29.73	%	3	54	1	1	40	--	--	--	--									1	A-,CC-,AB-	Large creek marsh	II
			acres	.89	16.05	.30	.30	11.89													.30			
198	Morattico Creek	2.18	%	15	45	--	20	20				--										AB-	Fringe x 30'	XII
			acres	.33	.98		.44	.44																
199	Morattico Creek	.25	%	50	50																		Grazed to stubble	I
			acres	.13	.13																			
200	Morattico Creek	1.00	%	35	45	1	1	17	1	--	/											AB-	Large pocket marsh	XII
			acres	.35	.45	.01	.01	.17	.01															
201	Morattico Creek	.68	%	85	2	--	1	10		2													Fringe marsh x 8'	I
			acres	.58	.01		.01	.07		.01														
202	Pearson Island	.35	%	45	35	2	8	10		--												AB-,AA-	Pocket marsh between roads	XII
			acres	.16	.12	.01	.03	.03																

## X. Morattico Creek and Lancaster Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Olney Threesquare	Beggarts Ticks	Others	Observations	Marsh Type
			%	20	50	3	2	25		--													
203	Pearson Island	4.04	%	20	50	3	2	25		--													II
			acres	.81	2.02	.12	.08	1.01															
204	Lancaster Creek	.60	%	75	3	10	1	10		1											AA-	Fringe marsh x 10'	I
			acres	.45	.02	.06	.01	.06		.01													
205	Lancaster Creek	3.92	%	55	8	17	--	20	--	--											CC-,AB-,P-	Cove marsh	I
			acres	2.16	.31	.67		.78															
206	Lancaster Creek	4.08	%	38	25	10	6	20	--	1											AB-	Creek marsh with 5' fringe	XII
			acres	1.55	1.02	.41	.24	.82		.04													
207	Lancaster Creek	1.06	%	20	30	1	45	4	--												CC-,AB-	Spit marsh	XII
			acres	.21	.32	.01	.48	.04															
208	Lancaster Creek	22.05	%	13	25	12	--	45	2	--	1								2	A-,CC-,AB-			XII
			acres	2.87	5.51	2.65		9.92	.44		.22								.44				
209	Lancaster Creek	.36	%	45	5	30	--	20		--											AB-	Spit marsh with fringe x 8'	XII
			acres	.16	.02	.11		.07															
210	Lancaster Creek	12.72	%	20	7	70	--	2	1	--	--	--									CC-		V
			acres	2.54	.89	8.90		.25	.13														

## X. Morattico Creek and Lancaster Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Tearthumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Oney Threesquare	Beggars Ticks	Others	Observations	Marsh Type
211	Lancaster Creek	2.08	%		32	1			45			20								1		II-,CC1,AA-,E-	XII
			acres		.67	.02			.94			.42								.02		CC.02	
212	Lancaster Creek	2.46	%	30	35	12	2	15	5	--	--										CC1	Small creek marsh	XII
			acres	.74	.86	.30	.05	.37	.12												CC.02		
213	Lancaster Creek	3.78	%	3	15	30	--	50	2		--									--		Large creek marsh	IV
			acres	.11	.57	1.13			1.89	.08													
214	Lancaster Creek	1.56	%	10	45	30	--	15				--										Large spit marsh	XII
			acres	.16	.70	.47			.23														
215	Lancaster Creek	1.53	%	5	3	87	--		5		--	--		--								Two pocket marshes with 5' fringe	V
			acres	.08	.05	1.33			.05														
216	Lancaster Creek	5.58	%	1	2	73		2	20		--	--		--					2			V	
			acres	.06	.11	4.07			.11	1.12									.11				
217	Lancaster Creek	.94	%			98			1			1			--					CC-	Two small pocket marshes	V	
			acres			.92			.01			.01											
218	Lancaster Creek	15.51	%	--	--	85		--	14	--	--	--		--					1	CC-,AB-		V	
			acres			13.18			2.17										.16				

## X. Morattico Creek and Lancaster Creek.

#	Marsh Location	Total Acres		Salt Marsh Cordgrass	Salt Meadow Hay	Big Cordgrass	Black Needlerush	Salt Bush	Cattails	Salt Marsh Bulrush	Water Hemp	Marsh Hibiscus	Teathumb	Smartweed	Arrow Arum & Pickerelweed	Jewelweed	Rice Cutgrass	Wild Rice	Olney Threesquare	Beggars Ticks	Others	Observations	Marsh Type	
#	Marsh Location	Total Acres	%	1		27			72		--	--		--							CC-		VI	
			acres	.03		.78			2.09															
219	Lancaster Creek	2.90	%			55			43		--	--	--	--							CC-		V	
			acres			6.33			4.95												2			
220	Lancaster Creek	11.50	%			35			48		--	--	--	--	15		1				F-Z-		XII	
			acres			1.57			2.16						.67		.04				.04			
221	Lancaster Creek	4.49	%			10		--	57		--	--	--	1	30	--	1	--	1	C-,R-,W-,X-,Y-,Z-		VI		
			acres			2.47			14.06						.25	7.40		.25		.25				
222	Lancaster Creek	24.67	%			--			46		1	--	1	3	47	2	--	--			C-,R-,T-,W-,X-		XI	
			acres						9.28		.20		.20	.61	9.48	.40								
T	Total Section X	246.39	%																					
			acres	27.25	51.84	53.61	3.75	47.76	37.73	.06	1.07	1.11	.20	.86	17.55	.40	.29		2.56		.38			
GT	GRAND TOTAL	4723.53	%																			58.02		
			acres	351.70	256.23	2338.15	9.48	236.95	273.62	1.88	15.05	143.22	31.94	28.95	354.13	16.44	78.83	146.46	74.05	208.71				

## Richmond County: Others List

A.	Saltmarsh Aster	Z.	Water Dock	YY.	Plumegrass
B.	Wild Millet	AA.	Switch Grass	ZZ.	Sacciolepsis
C.	Giant Bulrush	BB.	Sensitive Fern	AB.	Orach
D.	Chairmaker's Rush	CC.	Spikerush	AC.	Cane
E.	Nut Sedge	DD.	Dogwood	AD.	Panic Grass
F.	Water Parsnip	EE.	Cardinal Flower	AE.	Virginia Willow
G.	Swamp Milkweed	FF.	Bedstraw	AF.	Bladderwort
H.	Water Hemlock	GG.	American Germander	AG.	Alder
I.	Button Bush	HH.	Meadow Rue	AH.	Black Gum
J.	Arrowhead	II.	Marsh Mallow	AI.	Red Maple
K.	Ironweed	JJ.	Fleabane	AJ.	Yellow Pond Lily
L.	Wood Reedgrass	KK.	Foxtail Grass	AK.	Joe-Pye Weed
M.	Dayflower	LL.	Juniper	AL.	Soft Rush
N.	Burweed	MM.	Saltmarsh Loosestrife	AM.	Boneset
O.	Swamp Loosestrife	NN.	Royal Fern	AN.	Gerardia
P.	Lilaeopsis	OO.	Eryngo	AO.	Water Primrose
Q.	Sneezeweed	PP.	Turk's-Cap Lily	AP.	Mock Bishop's-Weed
R.	Marsh Fern	QQ.	Beak Rush	AQ.	Blue Flag
S.	Sweet Flag	RR.	Seaside Goldenrod	AR.	Wax Myrtle
T.	St. John's Wort	SS.	Common Reed	AS.	Black Willow
U.	False Nettle	TT.	Marsh Fimbristylis	AT.	Water Willow
V.	Lizard's-Tail	UU.	Three-Way Sedge	AU.	Wool Grass
W.	Water Lily	VV.	Wild Rye	AV.	Slough Grass
X.	Swamp Rose	WW.	Water Horehound		
Y.	Climbing Hempweed	XX.	Sweet Pepperbush		

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