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Peconic Estuary Program Office \* SCDHS Office of Ecology \* County Center \* Riverhead, NY 11901 \* (516)852-2077 \* (fax)(516)852-2743

## MEMORANDUM

To: PEP-Management Committee  
PEP-Technical Advisory Committee

From: Walter Dawydiak *wd/amf*

Date: June 21, 1999

Re: Post CCMP Surface Water and Point Source Monitoring Plan

Enclosed for your information and review is the above-referenced monitoring plan.  
Please provide any input you may have as soon as possible.

WD/amf  
cc: Vito Minei  
Enclosure



RECYCLED PAPER



***PECONIC ESTUARY PROGRAM***

**Post-CCMP  
Surface Water and Point Source  
Monitoring Plan**

**Suffolk County Department of Health Services  
Office of Ecology**

**DRAFT**  
***June 16, 1999***

## 1) Introduction

Peconic Estuary Program (PEP) marine surface water quality monitoring is currently performed weekly using two boats to sample the main estuary and a third trailered vessel to sample three eastern embayments on the south fork. Of the 39 total stations, 15 are sampled each week with the remainder done on an alternating biweekly schedule (see Figure 1 and Table 1).

The Suffolk County Department of Health Services (SCDHS) Office of Ecology surface water monitoring program has resulted in the collection of 6,544 samples between its PEP expansion in 1994 and 1998. This data has been critical in model calibration and verification exercises, and has resulted in several key reports and publications, including:

*Peconic Estuary Program (PEP) - Surface Water Quality - Nitrogen, Dissolved Oxygen, and Submerged Aquatic Vegetation Habitat*

*Peconic Estuary Program (PEP) - Surface Water Quality Monitoring (1976-1996, Vol. I, Narrative)*

*Peconic Estuary Program (PEP) - Surface Water Quality Monitoring (1976-1996, Vol. II, Data)*  
*Brown Tide Blooms in Long Island's coastal waters linked to interannual variability in groundwater flow, Julie LaRoche, Robert Nuzzi, Robert Waters, Kevin Wyman, Paul G. Falkowski and Douglas W.R. Wallace*

As per the recommendation of the Nutrients module of the Comprehensive Conservation and Management Plan (CCMP), the SCDHS has developed a recommended post-CCMP monitoring plan. This is aimed at continuing characterizations related to a wide variety of marine water quality concerns, dissolved oxygen, submerged aquatic vegetation, and, Brown Tide. Key objectives and considerations include:

- \* Maintain continuity of data for long-term longitudinal transect main stem stations.
- \* Include key peripheral bays for lateral transect characterizations.
- \* Incorporate impacted and stressed embayments (for dissolved oxygen concerns).
- \* Continue water quality characterization with respect to various SAV types (eelgrass, ulva, etc.).
- \* Couple water quality monitoring program with eelgrass long-term monitoring initiative.
- \* Ensure frequency sufficient to allow comprehensive characterization.

The ultimate objective is to use the information regarding status and trends, stresses, impacts, and threats to:

- \* assess effectiveness of CCMP recommendations, and
- \* identify additional opportunities for preservation and restoration.

## 2) Alternatives

The following two scenarios are the most likely alternatives:

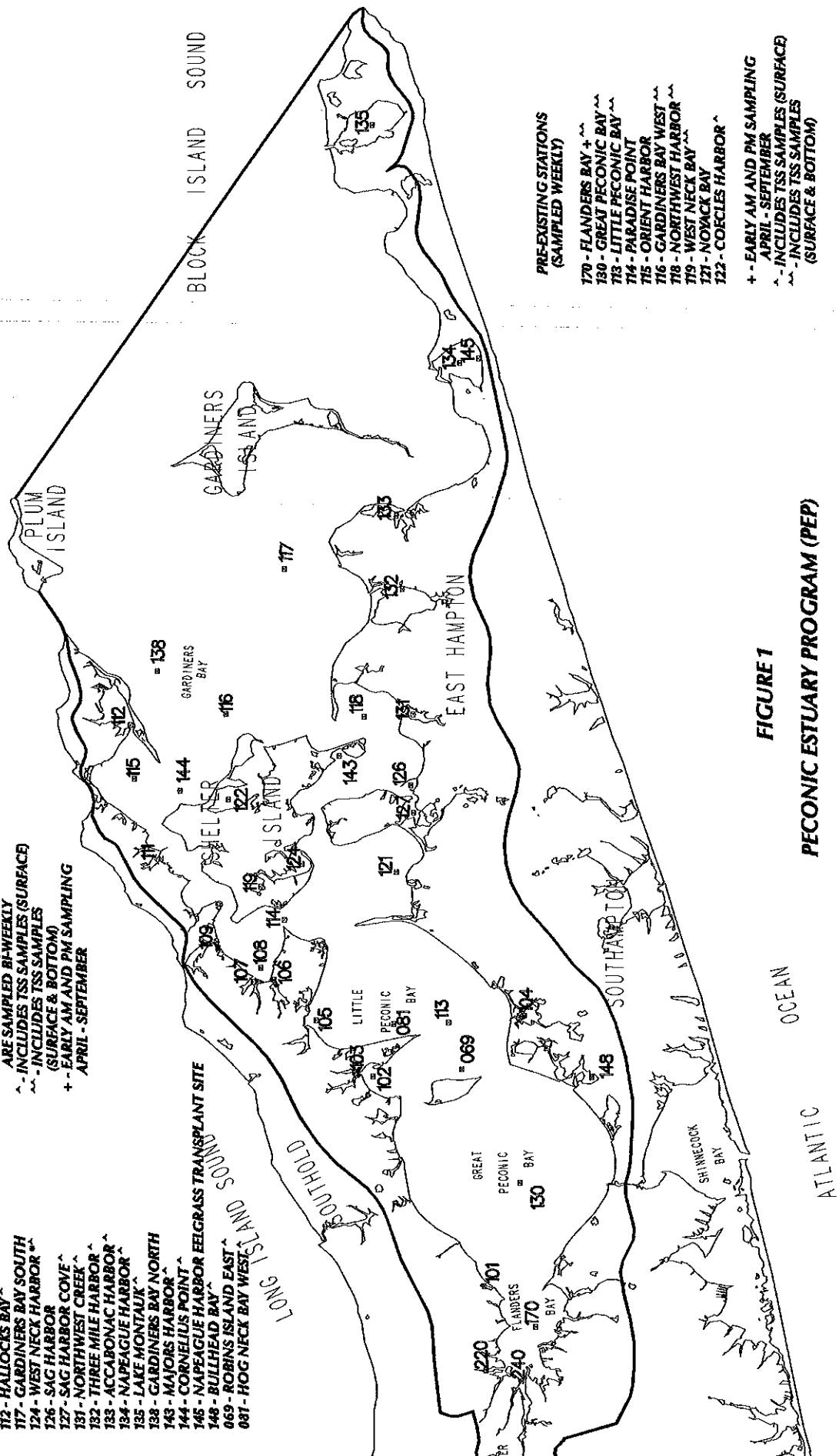
**I.** Reduce the total number of stations to a level that would permit sampling of all locations on a biweekly basis. By eliminating 9 stations (flagged on Table 1), 25 of the remaining 30 sites

**PEP-ADDITIONAL MONITORING STATIONS**

- 249 - PECONIC RIVER \*\*+
- 220 - MEETINGHOUSE CREEK \*\*\*+
- 161 - EAST CREEK 1
- 162 - CUTCHOGUE HARBOR \*
- 103 - EAST CREEK 2
- 104 - NORTH SEA HARBOR
- 105 - HOG NECK BAY \*
- 166 - GOOSE CREEK
- 167 - TOWN CREEK
- 168 - SOUTHDOLD BAY
- 109 - HASHAMOMUCK POND
- 111 - GREENPORT HARBOR
- 112 - HALLOCKS BAY
- 117 - GARDINERS BAY SOUTH
- 124 - WEST NECK HARBOR \*\*
- 126 - SAG HARBOR COVE \*
- 127 - SAG HARBOR CREEK
- 131 - NORTHWEST CREEK
- 132 - THREE MILE HARBOR \*
- 133 - ACCARONAC HARBOR \*
- 134 - NAPEAGUE HARBOR \*
- 135 - LAKE MONTAUK
- 138 - GARDINERS BAY NORTH
- 143 - MAJORS HARBOR \*
- 144 - CORNELIUS POINT \*
- 145 - NAPEAGUE HARBOR EELGRASS TRANSPLANT SITE
- 148 - BULLHEAD BAY \*\*
- 069 - ROBINS ISLAND EAST \*
- 081 - HOG NECK BAY WEST \*

- \*\* - SAMPLED WEEKLY; OTHER NEW STATIONS ARE SAMPLED BI-WEEKLY
- \*\*\* - INCLUDES TSS SAMPLES (SURFACE)
- \*\*\* - INCLUDES TSS SAMPLES (SURFACE & BOTTOM)
- + - EARLY AM AND PM SAMPLING APRIL - SEPTEMBER

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DIVISION OF ENVIRONMENTAL QUALITY  
OFFICE OF ECOLOGY**



**PRE-EXISTING STATIONS (SAMPLED WEEKLY)**

- 170 - FLANDERS BAY \*\*
- 130 - GREAT PECONIC BAY \*\*
- 113 - LITTLE PECONIC BAY \*\*
- 114 - PARADISE POINT
- 115 - ORIENT HARBOR
- 116 - GARDINERS BAY WEST \*\*
- 118 - NORTHWEST HARBOR \*\*
- 119 - WEST NECK BAY \*\*
- 121 - NOVACK BAY
- 122 - COECLES HARBOR \*

- + - EARLY AM AND PM SAMPLING APRIL - SEPTEMBER
- \*\*\* - INCLUDES TSS SAMPLES (SURFACE)
- \*\*\* - INCLUDES TSS SAMPLES (SURFACE & BOTTOM)

**FIGURE 1**

**PECONIC ESTUARY PROGRAM (PEP)**

**PRE - CCMP ROUTINE MARINE SURFACE WATER MONITORING PROGRAM**

NO SCALE

**Table 1**  
**Current Peconic Estuary Program Water Quality Monitoring Stations**

<u>Biweekly Stations</u>	
<u>Group 1 - North</u>	<u>Group 2 - South</u>
<u>Main Estuary</u>	
West	
<u>Weekly Stations</u>	
Flanders Bay (170)	Bullhead Bay (148)*
Meetinghouse Creek (220)*	North Sea Harbor (104)*
Peconic River Mouth (240)*	Robins Island East (069) x
Great Peconic Bay (130)	
Little Peconic Bay (113)	
Cutchogue Harbor (102)	
Hog Neck Bay (105) x	
Noyack Bay (121)	
East	
Paradise Point (114)	Sag Harbor (126)*
West Neck Bay (119)*	Sag Harbor Cove (127)*
West Neck Harbor (124)	Majors Harbor (143)* x
Northwest Harbor (118)	Northwest Creek (131)* x
Coecles Harbor (122)	Gardiners Bay South (117) x
Gardiners Bay West (116)	Garniners Bay North (138) x
Orient Harbor (115)	
<u>Eastern Bays</u>	
	Three Mile Harbor (132)
	Acabonac Harbor (133)
	Napeague Harbor (134)
	Napeague Harbor Eelgrass Site (145)
	Lake Montauk (135)

\* peripheral creeks / embayments presently sampled during the last 3 hours of an outgoing tide  
x stations proposed to be eliminated under scenario I

could be sampled biweekly using two boats per event in the main estuary, with a third trailered vessel again utilized to sample the 5 eastern embayment sites on an adjacent day. A revised station map reflecting these changes is also attached (see Figures 2 and 3, and Table 2).

**II.** Maintain the present number of sampling stations (see Table 1 and Figure 1) but reduce the sampling frequency of all. Under this scenario, only one boat would be utilized for each main sampling event, alternating between east and west runs on successive weeks. Stations that are presently sampled on a weekly basis would be done biweekly, and those that are now being done biweekly would be sampled monthly. The drawbacks of this scenario include a reduction in the degree of sampling "synopticity," and the limited number of peripheral embayment samples that would result.

### **3) Recommended Strategy**

The Scenario I would be preferable, since it would not only result in approximately 26 samples yearly from all locations and provide some level of synopticity, but would free up a full week between Peconic runs that could be dedicated to SCDHS monitoring activities in both the south shore bays and the north shore harbors. Because this scenario would combine north and south peripheral creek/bay stations into one sampling run, however, it will not be logistically possible to sample all of these sites during the last three hours of an outgoing tide at all times, as most presently are (see asterisk notation in Table 2). However, those not sampled within the last three hours of an outgoing tide would generally be sampled very close to the "three hour" protocol (less than one hour variance), minimizing influence of incoming waters.

This strategy is the best for achieving the objectives noted above, in Section 1, for the following reasons:

- \* Continuity of data is preserved for all 10 long-term longitudinal main stem stations.
- \* A total of 19 key peripheral bays are included for local and lateral transect characterizations.
- \* Several impacted and stressed embayments are included (for dissolved oxygen concerns), including:
  - Peconic River
  - Meetinghouse Creek
  - East Creek 1
  - Flanders Bay
  - East Creek 2
  - West Neck Bay
  - Sag Harbor
  - Town Creek
- \* Water quality characterization is continued with respect to various SAV types (eelgrass, ulva, etc.). Specific SAV stations are:
  - Hallock's Bay, Cornelius Point, Northwest Harbor, Bullhead Bay (existing eelgrass)
  - Napeague Harbor (eelgrass transplants)
  - Peconic River, Meetinghouse Creek, East Creek 2, Goose Creek, Town Creek (ulva)
  - Coecles Harbor, W. Neck Harbor, Accabonac Harbor, Three Mile Harbor, Flanders Bay, Hog Neck Bay, Noyac Bay (Codium)

MONITORING STATIONS

- 240 - PECONIC RIVER ^ +
- 230 - MEETINGHOUSE CREEK ^ +
- 101 - EAST CREEK 1
- 102 - CUTCHOGUE HARBOR
- 103 - EAST CREEK 2 ^
- 104 - NORTH SEA HARBOR
- 105 - GOOSE CREEK
- 107 - TOWN CREEK
- 108 - SOUTHOLD BAY
- 109 - HASHAMONUCK POND
- 112 - HALLOCKS BAY ^
- 113 - LITTLE PECONIC BAY ^
- 114 - PARADISE POINT
- 115 - ORIENT HARBOR
- 116 - GARDINERS BAY WEST ^
- 118 - NORTHWEST HARBOR ^
- 119 - WEST NECK BAY ^
- 121 - NOVACK BAY
- 122 - COCKLES HARBOR ^
- 124 - WEST NECK HARBOR ^
- 125 - SAG HARBOR
- 127 - SAG HARBOR COVE ^
- 130 - GREAT PECONIC BAY ^
- 132 - THREE MILE HARBOR ^
- 133 - ACCABONAC HARBOR ^
- 134 - NAPAQUE HARBOR ^
- 138 - LAKE MONTAUK ^
- 144 - CORNELIUS POINT
- 146 - NAPAQUE HARBOR BEGROSS TRANSPLANT SITE
- 148 - BULLHEAD BAY ^
- 170 - FLANDERS BAY ^

^ - INCLUDES TSS SAMPLES (SURFACE)  
 + - EARLY AM AND PM SAMPLING  
 APRIL - SEPTEMBER  
 ALL STATIONS ARE TO BE SAMPLIED BI-WEEKLY

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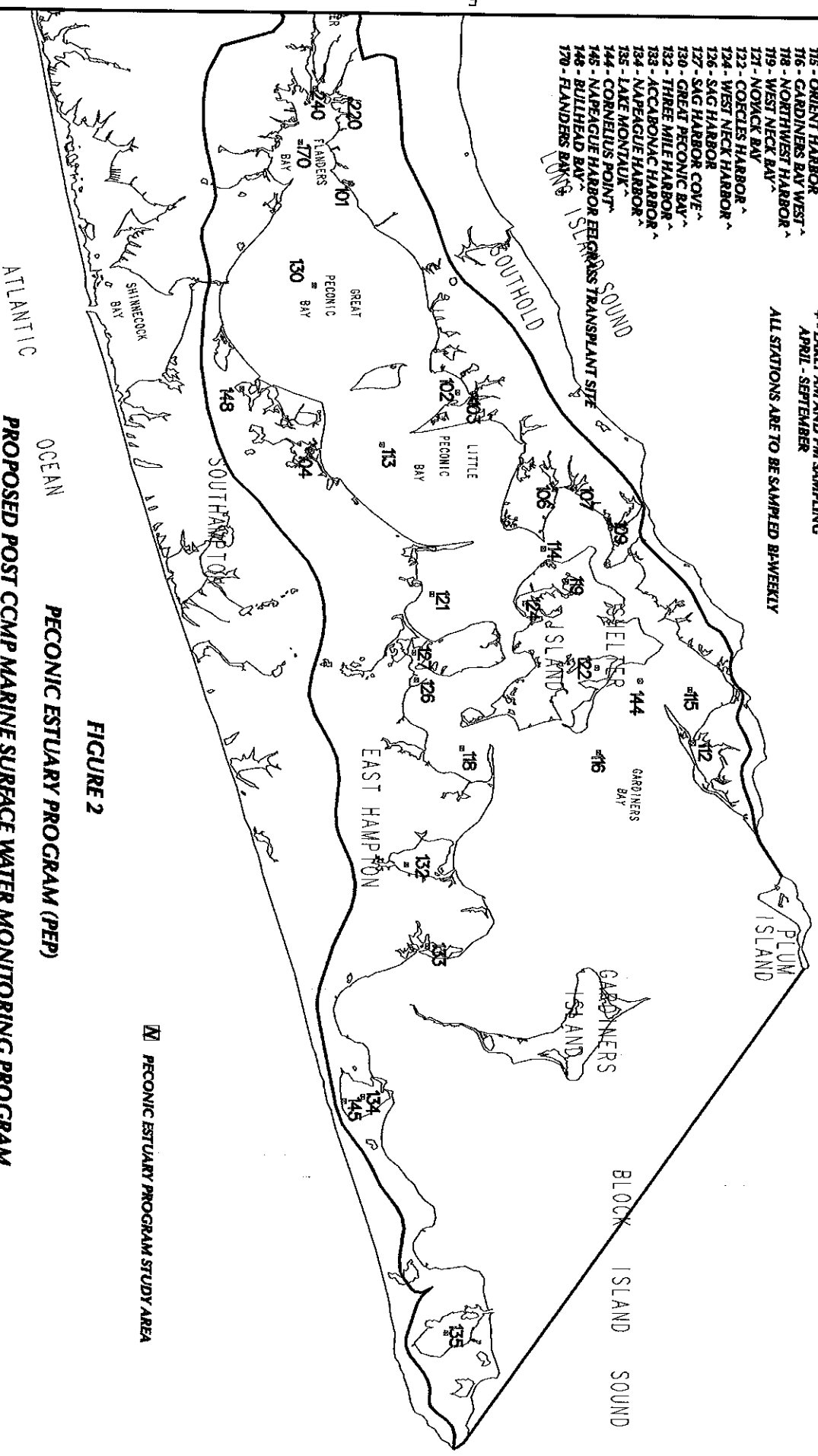
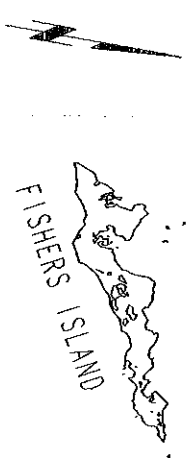


FIGURE 2  
 PECONIC ESTUARY PROGRAM (PEP)  
 PROPOSED POST CMP MARINE SURFACE WATER MONITORING PROGRAM  
 (BEGINNING APRIL 1999)

▣ PECONIC ESTUARY PROGRAM STUDY AREA

NO SCALE

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PECONIC ESTUARY PROGRAM STUDY AREA

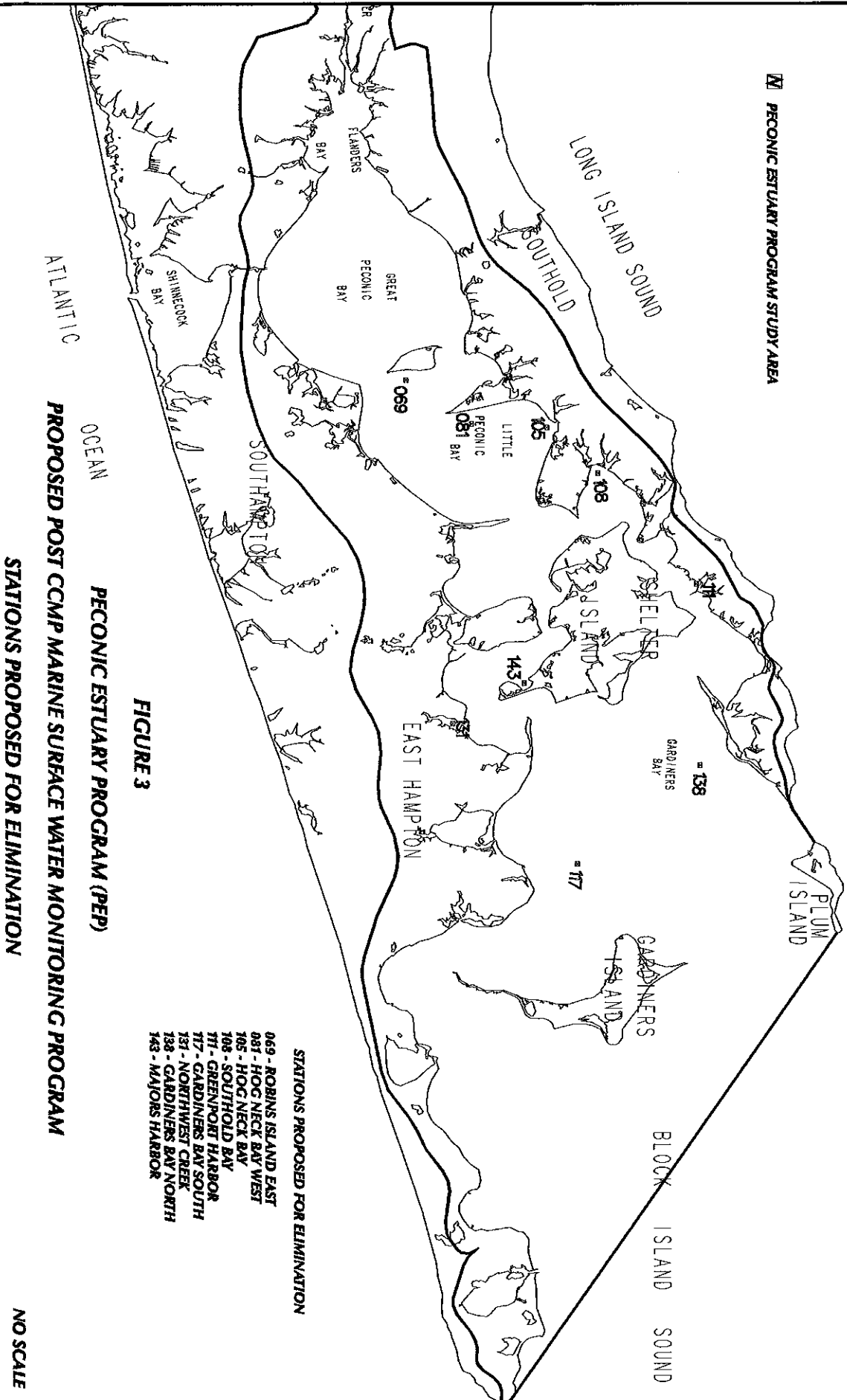


FIGURE 3

PECONIC ESTUARY PROGRAM (PEP)  
 PROPOSED POST CCMP MARINE SURFACE WATER MONITORING PROGRAM  
 STATIONS PROPOSED FOR ELIMINATION

- STATIONS PROPOSED FOR ELIMINATION
- 069 - ROBINS ISLAND EAST
  - 081 - HOG NECK BAY WEST
  - 106 - HOG NECK BAY
  - 108 - SOUTHOLD BAY
  - 111 - GREENPORT HARBOR
  - 117 - GARDINERS BAY SOUTH
  - 131 - NORTHWEST CREEK
  - 138 - GARDINERS BAY NORTH
  - 143 - MAJORS HARBOR

NO SCALE



**Table 2  
PEP "Post CCMF" Water Quality Monitoring Stations  
Main Estuary**

**(Estimated Sampling Times in Relation to Low Tide Monitoring at Peripheral Sites)**

<u>West Stations</u>	<u>Last 3 Hrs. Ebb</u>	<u>Est. Sample Time</u>
Flanders Bay AM (170A)		0520
Reconic River AM (240A)		0545
Meetinghouse Creek AM (220A)		0615
Bullhead Bay (148)*	0645-0945 (Shinn. Canal)	0700
North Sea Harbor (104)*	0645-0945 (New Suffolk)	0740
Little Reconic Bay (113)		0805
Cutchogue Harbor (102)		0830
East Creek 2 (103)*	0645-0945 (New Suffolk)	0855
East Creek 1 (101)*	0715-1015 (S. Jamesport)	0940
Flanders Bay PM (170P)		1005
Reconic River PM (240P)*	0745-1045 (S. Jamesport +.5)	1030
Meetinghouse Creek PM (220P)*	0815-1115 (S. Jamesport + 1)	1100
Great Reconic Bay (130)		1145
Great Reconic Bay Replicate (130R)		1200

<u>East Stations</u>	<u>Last 3 Hrs. Ebb</u>	<u>Est. Sample Time</u>
Hashamomuck Pond (109)*	0600-0900 (Southold)	0530
Town Creek (107)*	0600-0900 (Southold)	0550
Goose Creek (106)*	0600-0900 (Southold)	0610
Paradise Point (114)		0630
Noyack Bay (121)		0645
West Neck Harbor (124)		0710
West Neck Bay (119)*	0600-0900 (Sag Harbor + .75)	0735
Sag Harbor Cove (127)*	0515-0815 (Sag Harbor)	0815
Sag Harbor (126)*	0515-0815 (Sag Harbor)	0830
Northwest Harbor (118)		0850
Northwest Harbor (118E - eelgrass site)**		0910
Coecles Harbor (122)		0935
Coecles Harbor Replicate (122R)		0945
Gardiners Bay West (116)		1010
Cornelius Point (144)		1030
Orient Harbor (115)		1045
Hallocks Bay (112)		1100

\*\* peripheral creek / embayment locations to be sampled during last 3 hours of outgoing tide  
\*\* temporary sampling location

SCDHS will prepare biannual reports on the surface water monitoring program, as well as its nitrogen, dissolved oxygen, and submerged aquatic vegetation implications. The first "post-COMF" biannual report will be issued in 2000. As always, SCDHS will share data on an ongoing basis, and will provide intermediate evaluations and additional technical assistance, as needed.

**6) Reporting**

SCDHS is also assisting in Brookhaven National Laboratory (BNL) fluorometer deployment three fluorometers funded through Suffolk County Capital Program for 1999). The SUNY Marine Science Research Center (MSRC) differential phytoplankton analysis will also continue in 1999, with assistance from SCDHS. The Office of Ecology will again assist USEPA in performing sample collection for USEPA toxicity analyses in 1999. On an ongoing basis, monitoring will continue to be actively coupled with natural resources research and monitoring efforts. As always, SCDHS will be feasible in modifying its program as the need arises.

**Special Programs**

Ten routine point source locations (see Figure 5 and Table 6), including sites in the Peconic River, Meetinghouse Creek, Corwin Duck Farm, Fish Cove, and at the Riverhead, Sag Harbor, and Shelter Island Heights STPs, will continue to be monitored on a monthly basis. To minimize effects from the adjacent salt-water portion of Meetinghouse Creek, the two Corwin Duck Farm sites will be sampled as close as possible to low tide.

**Routine Point Sources**

Sixteen north fork stream sites, located from Sawmill Creek on the west to Narrow River (Orient) on the east (see Figure 4 and Table 4), will be sampled on a bimonthly basis with 8 locations done each month. Sampling will be performed during the last of the ebb tide at each site in an attempt to quantify impacts that the stream may have on the adjacent estuary. In addition to the normal point source sampling parameters, samples for the analysis of 109 organic solvent and pesticide compounds (Table 5) will also be collected at each site.

**North Fork Streams**

**5) Other Monitoring Program Elements**

There will be no deviation from approved Quality Assurance Project Plan procedures instituted for the PEP monitoring program. Parameters are included in Table 3.

**4) Parameters; Quality Assurance**

The chief drawback to the proposed plan is that the stations in Figure 3 will be eliminated. However, these are the stations that are least critical to meeting the objectives noted above, and their elimination is necessary to accommodate a still formidable sampling program.

\* The water quality monitoring program is coupled with the eelgrass long-term monitoring initiative (Bullhead Bay, Northwest Harbor, Hallock's Bay)  
\* Frequency is sufficient to allow comprehensive characterization (biweekly data).

Table 3. Peconic Estuary Program Sampling Parameters

Parameter	Marine	Point Sources	STPs
NH3	X	X	X
NO2		X	X
NO2+NO3	X	X	X
Urea	X		
TKN	X	X	X
DKN	X	X	
TDPO4	X	X	
o-PO4	X		
TP04	X	X	X
SiO3	X		
Salinity	X		
Total & Fecal Coliforms	X	X	X
TOC	X		
DOC	X		
TSS	X		X
Chlorophyll-a	X		
Aureococcus	X		
Field Measurements:			
Water depth	X		
Secchi depth	X		
Irradiance	X		
Temperature	X	X	
Dissolved oxygen	X	X	
Conductivity/salinity	X	X	
Flow			X

LOCATION NAMES

- 4. CRESCENT DUCK FARM
- 10. PECONIC RIVER (U.S.C.S. CAVE)
- 17. PECONIC RIVER (GRANGEBEL PARK)
- 42. MEETING HOUSE CREEK (HEADWATERS)
- 42. CRESCENT DUCK FARM
- 70. SAWMILL CREEK - RIVERHEAD
- 120. TERRY CREEK - RIVERHEAD
- 130. REEVES CREEK - RIVERHEAD
- 140. EAST CREEK - S. JAMESPORT
- 150. S. JAMESPORT STREAM (WEST DRAIN)
- 160. BRUSH CREEK - LAUREL
- 170. DEEP HOLE CREEK - MATITUCK
- 180. HALL'S CREEK - CUTCHOGUE
- 190. DOWNS CREEK - CUTCHOGUE
- 200. WEST CREEK - NEW SUFFOLK
- 210. EAST CREEK - CUTCHOGUE
- 220. RICHMOND CREEK - PECONIC
- 230. PIPES CREEK - SOUTHOOLD
- 240. PIPES NECK CREEK - SOUTHOOLD
- 250. NARROW RIVER - NORTH
- 260. NARROW RIVER - SOUTH

SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES

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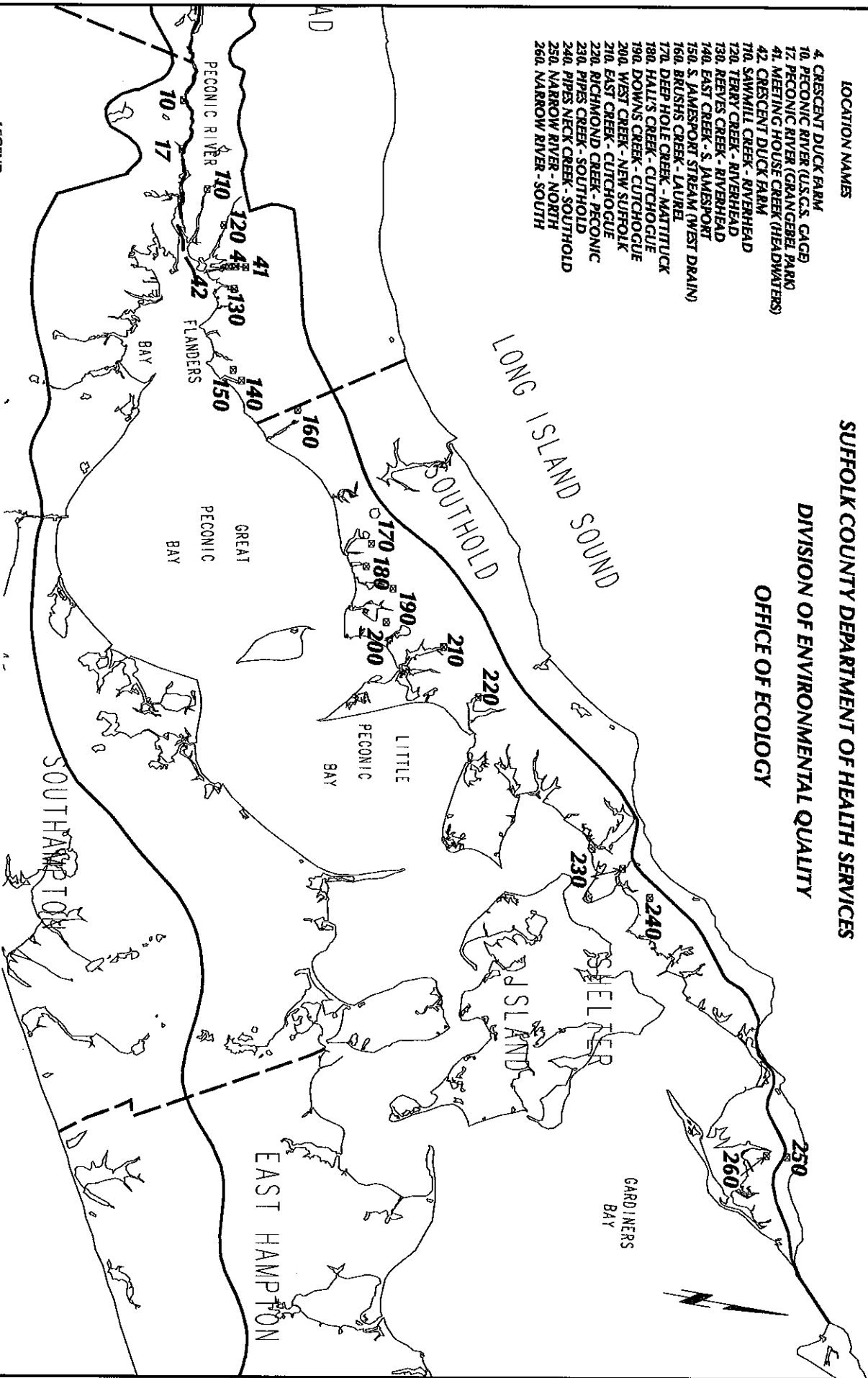


FIGURE 4

PECONIC ESTUARY PROGRAM (PEP)

PECONIC RIVER & NORTH FORK CREEKS SAMPLING LOCATIONS

NO SCALE

**Table 4. North Fork Stream Station Locations**

<u>Station</u>	<u>Name</u>	<u>Sampling Location</u>
110	Sawmill Creek	From the southside of Main St., west of Hubbard Ave., Riverhead
120	Terry Creek	On the northside of Hubbard Ave. and the eastside of the east ramp to Rt. 105, Riverhead
130	Reeves Creek	From the northside of Peconic Bay Blvd., Riverhead
140	East Creek	From the north side of Peconic Bay Blvd. at Town Beach Dr., South Jamesport
150	South Jamesport stream (west drain)	From Peconic Bay Blvd., 100' east of South Jamesport Ave.
160	Brushs Creek	From the bridge east of Condor Ct., Laurel
170	Deep Hole Creek	On the west side of Cardinal Dr., north of Blossom Dr., Mattituck
180	Halls Creek	From the north side of New Suffolk Ave., Cutchogue
190	Downs Creek	From vacant lot on the west side of Country Club Dr., Cutchogue
200	West Creek	From New Suffolk Rd., north of the intersection with Grathwohl Rd., New Suffolk
210	East Creek	Off Eugenes Rd., Cutchogue
220	Richmond Creek	Off Wells Rd., Peconic
230	Pipes Creek	From culvert between Kerwin Blvd. & Pipes Neck Rd., Southold
240	Pipes Neck Creek	From culvert on the north side of Main Rd. at their intersection with Old Mill Rd., Southold
250	Narrow River North	From culvert on south side of Main Rd., approximately 50' east of Narrow River Rd., Orient
260	Narrow River South	From stream approximately 800' south of Main Rd. on the south side of Narrow River Rd., Orient

Table 5. Organic Solvent and Pesticide Sampling Parameters

1,1,1,2-Tetrachloroethane
1,1,1-Trichloroethane
1,1,2,2-Tetrachloroethane
1,1,2-Trichloroethane
1,1-Dichloroethane
1,1-Dichloroethene
1,1-Dichloropropene
1,2,3-Trichlorobenzene
1,2,3-Trichloropropene
1,2,4,5-Tetramethylbenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromoethane
1,2-Dichlorobenzene
1,2-Dichloroethane
1,2-Dichloropropene
1,3,5-Trimethylbenzene
1,3-Dichloropropene
1,4-Dichlorobutane
1-Bromo,2-Chloroethane
1-Methylethylbenzene
1-Naphthol
2,2-Dichloropropene
2,3-Dichloropropene
2-Bromo,1-Chloropropene
2-Butanone
2-Chlorotoluene
3-Chlorotoluene
3-Hydroxycarbofuran
4-Chlorotoluene
Achlor
Aldicarb
Aldicarb sulfone
Aldicarb sulfonide
Aldrin
Alpha-BHC
Benzene
Beta-BHC
Bromobenzene

Bromo-chloro-methane  
Bromodichloromethane  
Bromoforn  
Bromomethane  
Carbaryl  
Carbofuran  
Carbon Tetrachloride  
Chlorane  
Chlorobenzene  
Chlorodifluoromethane  
Chloroethane  
Chloroform  
Chloromethane  
Chlorodibromomethane  
cis-1,2-Dichloroethene  
cis-1,3-Dichloropropene  
Dacthal  
DDD  
DDE  
DDT  
Delta-BHC  
Dibromomethane  
Dichlorodifluoromethane  
Dieldrin  
Dimethyldisulfide  
Endosulfan-I  
Endosulfan-II  
Endrin  
Endrin-Aldehyde  
Ethenylbenzene  
Ethylbenzene  
Freon 113  
Gamma-BHC  
Heptachlor  
Heptachlor-Epoxide  
Hexachlorobutadiene  
Isopropyltoluene  
m,p-Dichlorobenzene  
m-Xylene  
Methiocarb  
Methomyl  
Methoxychlor  
Methyl sulfide

Methyl-Tertiary-Butyl-Ether  
Methylene Chloride  
Monomethyltetrachloroterephthalate  
n-Butylbenzene  
n-Propylbenzene  
Naphthalene  
o-Xylene  
Oxamyl  
p-Diethylbenzene  
p-Xylene  
Propoxur  
sec-Butylbenzene  
tert-Amyl-Ethyl-Ether  
tert-Butylbenzene  
tert-Butylbenzene  
Tetrachloroethene  
Tetrachloroterephthalic Acid  
Tetrahydrofuran  
Toluene  
Total Chlorotoluene  
Total Xylenes  
trans-1,2-Dichloroethene  
trans-1,3-Dichloropropene  
Trichloroethene  
Trichlorofluoromethane  
Vinyl Chloride

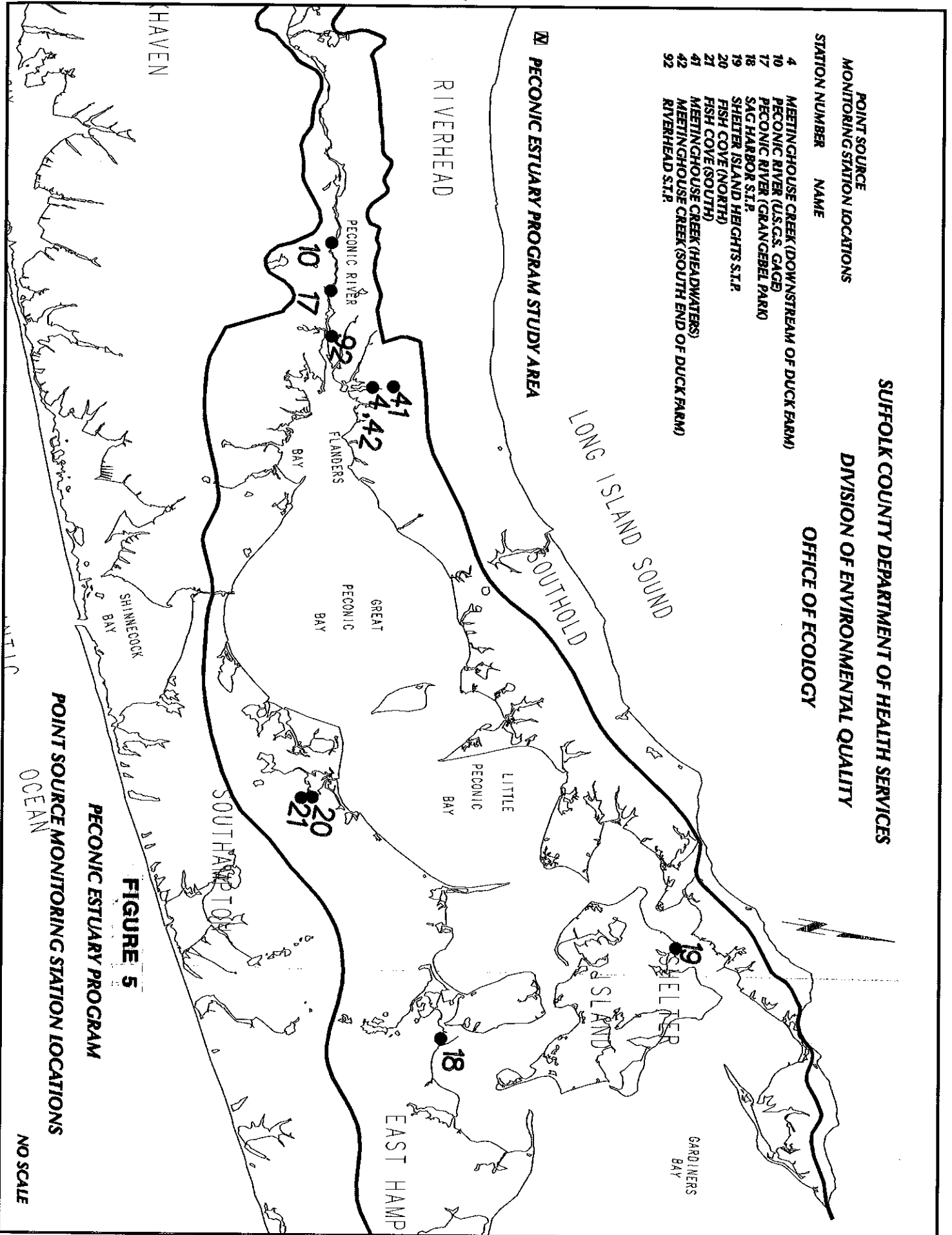


SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES  
 DIVISION OF ENVIRONMENTAL QUALITY  
 OFFICE OF ECOLOGY

POINT SOURCE  
 MONITORING STATION LOCATIONS

STATION NUMBER	NAME
4	MEETINGHOUSE CREEK (DOWNSTREAM OF DUCK FARM)
10	PECONIC RIVER (U.S.G.S. GAGE)
17	PECONIC RIVER (GRANGEBEL PARK)
18	SAC HARBOR S.T.P.
19	SHELTER ISLAND HEIGHTS S.T.P.
20	FISH COVE (NORTH)
21	FISH COVE (SOUTH)
41	MEETINGHOUSE CREEK (HEADWATERS)
42	MEETINGHOUSE CREEK (SOUTH END OF DUCK FARM)
92	RIVERHEAD S.T.P.

PECONIC ESTUARY PROGRAM STUDY AREA



HAVEN

RIVERHEAD

LONG ISLAND SOUND

SOUTHOLD

FLANDERS BAY

GREAT PECONIC BAY

LITTLE PECONIC BAY

SHELTER ISLAND

GARDINERS BAY

EAST HAMPT

SOUTHAMPTON

SHINNECOCK BAY

PECONIC ESTUARY PROGRAM

FIGURE 5

POINT SOURCE MONITORING STATION LOCATIONS

ATLANTIC OCEAN

NO SCALE

**Table 6. Routine Point Source Station Locations**

<u>Station</u>	<u>Name</u>	<u>Sampling Location</u>
4	Crescent Duck Farm	Meetinghouse Creek on N/S of Hubbard Avenue
41	Meetinghouse Creek	N/O duck farm, S/S Main Rd.
42	Crescent Duck Farm	At south end of Corwin property, approx. 50' north of station 4
10	Peconic River	At USGS gauge station
17	Peconic River	At Grangebél Park waterfall
18	Sag Harbor STP	Effluent from chlorine contact tank
19	Shelter Island Heights STP	Effluent from chlorine contact tank
20	Fish Cove	North end of Fish Cove, off Wateredge Rd.
21	Fish Cove	South end of Fish Cove, off Old Fish Cove Rd.
92	Riverhead STP	From manhole on River Avenue