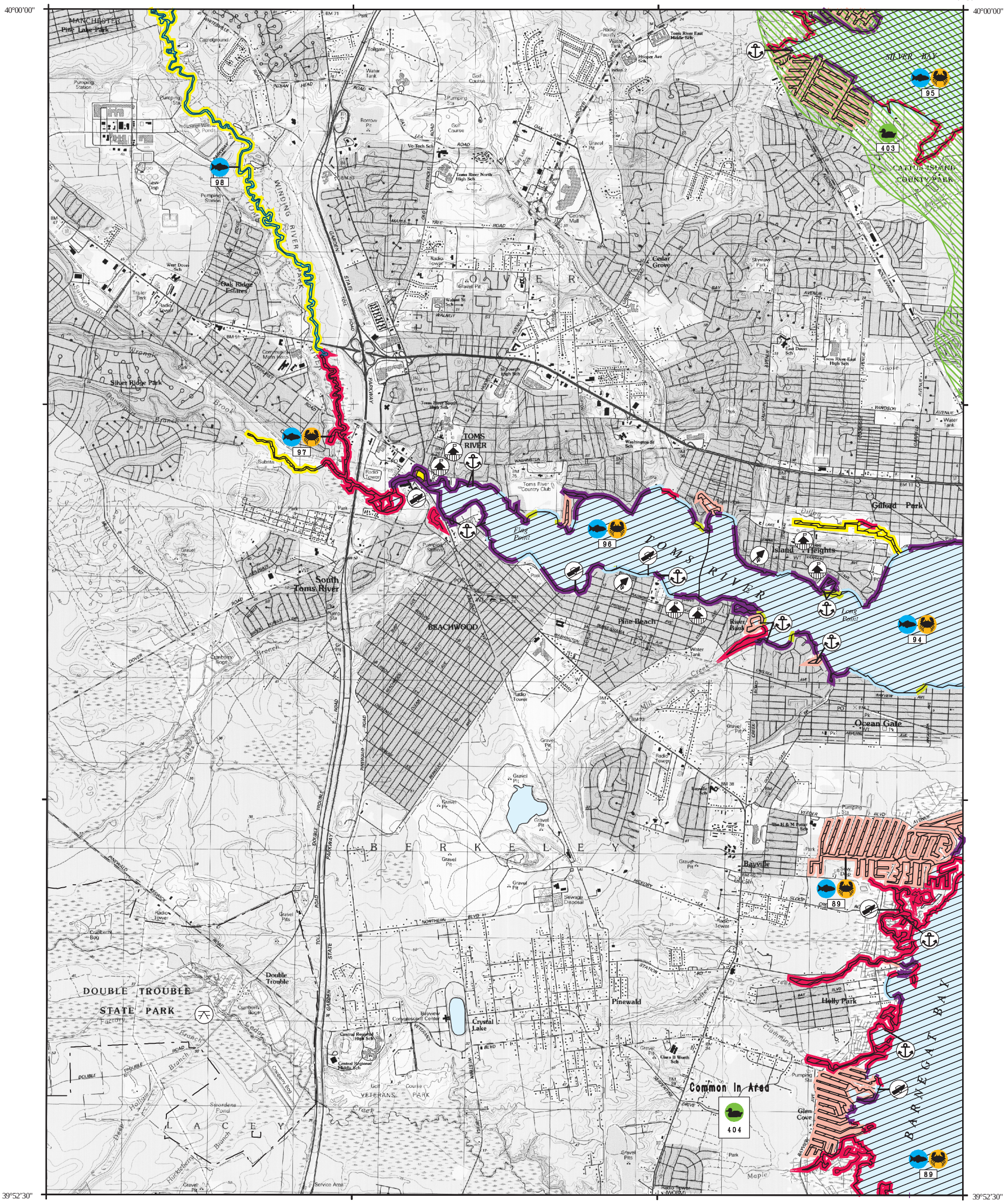
# ENVIRONMENTAL SENSITIVITY INDEX MAP

74°15'00" 74°07'30"
40°00'00" 40°00'00"




39°52'30" 39°52'30"
74°15'00" 74°07'30"

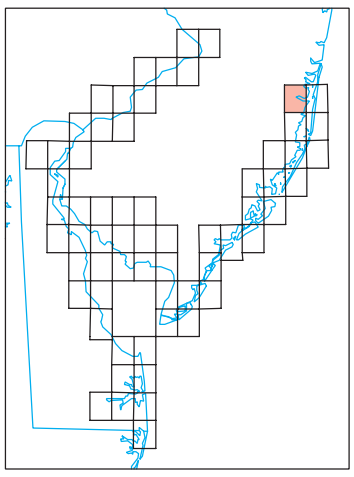
*Prepared for:*

HAZARDOUS MATERIALS RESPONSE
and ASSESSMENT DIVISION
National Oceanic and Atmospheric Administration
Seattle, Washington
and
The States of DELAWARE,
NEW JERSEY, and PENNSYLVANIA

N
W E
S

1 .5 0 1 KILOMETER
1 .5 0 1 MILE

Not For Navigation
Published: August 1996



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# DELAWARE, NEW JERSEY, and PENNSYLVANIA ESIMAP 61

## BIOLOGICAL RESOURCES:

### BIRD:

| RAR# | Species | ST | S/F | T/E | Concen | J | F | M | A | M | J | J | A | S | O | N | D | Nesting | Laying | Hatching | Fledging |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 403 | American coot | | | | 700 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-MAY | MAY-JUN | JUN-JUL | AUG-SEP |
| | American wigeon | | | | 400 | X | X | X | | | | | | | X | X | X | - | - | - | - |
| | Black duck | | | | 900 | X | X | | | | | | | | | | X | - | - | - | - |
| | Brant | | | | 1200 | X | X | X | | | | | | | X | X | X | - | - | - | - |
| | Bufflehead | | | | 2400 | X | X | X | X | X | | | X | X | X | X | X | - | - | - | - |
| | Canada goose | | | | 2100 | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - |
| | Canvasback | | | | 15000 | X | X | X | X | | | | X | X | X | X | X | - | - | - | - |
| | Goldeneye | | | | 500 | X | X | X | | | | | | | | X | X | - | - | - | - |
| | Green-winged teal | | | | 30 | X | X | X | | | | | | | X | X | X | - | - | - | - |
| | Mallard | | | | 2900 | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - |
| | Merganser | | | | 610 | X | X | X | X | | | | | | X | X | X | - | - | - | - |
| | Mute swan | | | | 1000 | X | X | X | X | X | X | X | X | X | X | X | X | MAR-OCT | APR-MAY | MAY-JUN | SEP-OCT |
| | Oldsquaw | | | | 300 | X | X | X | X | | | | | | X | X | X | - | - | - | - |
| | Redhead | | | | 125 | X | X | X | | | | | | | X | X | X | - | - | - | - |
| | Ring-necked duck | | | | 150 | X | X | X | X | X | | | X | X | X | X | X | - | - | - | - |
| | Ruddy duck | | | | 300 | X | X | X | X | X | | | X | X | X | X | X | - | - | - | - |
| | Scaup | | | | 7900 | X | X | X | | | | | | | | X | X | - | - | - | - |
| | Scoter | | | | 100 | | | | | | | | X | X | X | X | X | - | - | - | - |
| | Whistling swan (tundra swan) | | | | 400 | X | X | X | X | | | | | | | X | X | - | - | - | - |
| 404 | American coot | | | | 25 | X | X | X | X | X | X | X | X | X | X | X | X | MAY-MAY | MAY-JUN | JUN-JUL | AUG-SEP |
| | American wigeon | | | | 700 | X | X | X | | | | | | | X | X | X | - | - | - | - |
| | Black duck | | | | 6200 | X | X | | | | | | | | | | X | - | - | - | - |
| | Brant | | | | 9000 | X | X | X | | | | | | | X | X | X | - | - | - | - |
| | Bufflehead | | | | 20000 | X | X | X | X | X | | | X | X | X | X | X | - | - | - | - |
| | Canada goose | | | | 4800 | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - |
| | Canvasback | | | | 4100 | X | X | X | X | | | | X | X | X | X | X | - | - | - | - |
| | Common eider | | | | 20 | X | X | X | | | | | | | X | X | X | - | - | - | - |
| | Goldeneye | | | | 21000 | X | X | X | | | | | | | | X | X | - | - | - | - |
| | Green-winged teal | | | | 100 | X | X | X | | | | | | | X | X | X | - | - | - | - |
| | Mallard | | | | 3600 | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - | - |
| | Merganser | | | | 2600 | X | X | X | X | | | | | | X | X | X | - | - | - | - |
| | Mute swan | | | | 1100 | X | X | X | X | X | X | X | X | X | X | X | X | MAR-OCT | APR-MAY | MAY-JUN | SEP-OCT |
| | Northern pintail | | | | 500 | X | X | X | X | | | | X | X | X | X | X | - | - | - | - |
| | Northern shoveler | | | | 100 | X | X | X | X | | | | X | X | X | X | X | - | - | - | - |
| | Oldsquaw | | | | 4100 | X | X | X | X | | | | | | X | X | X | - | - | - | - |
| | Redhead | | | | 200 | X | X | X | | | | | | | X | X | X | - | - | - | - |
| | Ring-necked duck | | | | 900 | X | X | X | X | X | | | X | X | X | X | X | - | - | - | - |
| | Ruddy duck | | | | 220 | X | X | X | X | X | | | X | X | X | X | X | - | - | - | - |
| | Scaup | | | | 21000 | X | X | X | | | | | | | | X | X | - | - | - | - |
| | Scoter | | | | 700 | | | | | | | | X | X | X | X | X | - | - | - | - |
| | Whistling swan (tundra swan) | | | | 100 | X | X | X | X | | | | | | | X | X | - | - | - | - |

### FISH:

| RAR# | Species | ST | S/F | T/E | Concen | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Outmig. | Larvae/Juv |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | Alewife | | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-MAY | - | - |
| | American shad | | | | | | | X | X | X | | | | | | | | - | - | - |
| | Atlantic croaker | | | | | X | | | X | X | X | X | X | X | X | X | X | - | - | MAY-JAN |
| | Atlantic herring | | | | | X | | X | X | X | X | | | | | X | X | - | MAR-JUN | - |
| | Atlantic menhaden | | | | | | | X | X | X | X | X | X | X | X | | | - | - | MAR-OCT |
| | Black seabass | | | | | | | | X | X | X | X | X | X | X | X | | - | - | APR-OCT |
| | Blueback herring | | | | | | | | X | X | X | | | | | | | APR-JUN | - | - |
| | Bluefish | | | | | | | | X | X | X | X | X | X | X | | | - | - | JUL-SEP |
| | Northern kingfish | | | | | | | | X | X | X | X | X | X | X | X | | - | - | - |
| | Porgy (scup) | | | | | | | | X | X | X | X | X | X | X | X | X | - | - | - |
| | Seatrout (weakfish) | | | | | | | X | X | X | X | X | X | X | X | X | | APR-AUG | - | APR-SEP |
| | Spot | | | | | | | X | X | X | X | X | X | X | X | X | X | - | - | MAR-JUN |
| | Squirrel (red) hake (ling) | | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| | Striped bass | | | | | X | X | X | X | X | X | X | X | X | X | X | X | - | - | - |
| | Summer flounder | | | | | | | | X | X | X | X | X | X | X | X | | - | - | APR-NOV |
| | Tautog | | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUN | - | JUN-DEC |
| | White perch | | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUN | - | - |
| | Winter flounder | | | | | X | X | X | X | X | X | X | X | X | X | X | X | NOV-MAR | - | MAY-OCT |
| 94 | Alewife | | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-MAY | - | - |
| | Atlantic menhaden | | | | | | | X | X | X | X | X | X | X | X | | | - | - | MAR-OCT |
| | Blueback herring | | | | | | | | X | X | X | | | | | | | APR-JUN | - | - |
| | Bluefish | | | | | | | | X | X | X | X | X | X | X | | | - | - | JUL-SEP |
| | Summer flounder | | | | | | | | X | X | X | X | X | X | X | X | | - | - | APR-NOV |
| | Tautog | | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUN | - | JUN-DEC |
| | White perch | | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUN | - | - |
| | Winter flounder | | | | | X | X | X | X | X | X | X | X | X | X | X | X | NOV-MAR | - | MAY-OCT |
| 95 | Alewife | | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-MAY | - | - |
| | Atlantic menhaden | | | | | | | | X | X | X | X | X | X | X | | | - | - | MAR-OCT |
| | Blueback herring | | | | | | | | X | X | X | | | | | | | APR-JUN | - | - |
| | Bluefish | | | | | | | | X | X | X | X | X | X | X | | | - | - | JUL-SEP |
| | Seatrout (weakfish) | | | | | | | X | X | X | X | X | X | X | X | X | | APR-AUG | - | APR-SEP |
| | Summer flounder | | | | | | | | X | X | X | X | X | X | X | X | | - | - | APR-NOV |
| | White perch | | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUN | - | - |
| | Winter flounder | | | | | X | X | X | X | X | X | X | X | X | X | X | X | NOV-MAR | - | MAY-OCT |
| 96 | Alewife | | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-MAY | - | - |
| | Atlantic menhaden | | | | | | | | X | X | X | X | X | X | X | | | - | - | MAR-OCT |
| | Blueback herring | | | | | | | | X | X | X | | | | | | | APR-JUN | - | - |
| | Bluefish | | | | | | | | X | X | X | X | X | X | X | | | - | - | JUL-SEP |
| | White perch | | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUN | - | - |
| | Winter flounder | | | | | X | X | X | X | X | X | X | X | X | X | X | X | NOV-MAR | - | MAY-OCT |
| 97 | Alewife | | | | | X | X | X | X | X | X | X | X | X | X | X | X | MAR-MAY | - | - |
| | Atlantic menhaden | | | | | | | | X | X | X | X | X | X | X | | | - | - | MAR-OCT |
| | Blueback herring | | | | | | | | X | X | X | | | | | | | APR-JUN | - | - |
| | White perch | | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUN | - | - |
| | Yellow perch | | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUN | - | - |
| 98 | Yellow perch | | | | | X | X | X | X | X | X | X | X | X | X | X | X | APR-JUN | - | - |

### SHELLFISH:

| RAR# | Species | ST | S/F | T/E | Concen | J | F | M | A | M | J | J | A | S | O | N | D | Spawning | Larvae/Juv | Mating |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | Blue crab | | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | SEP-OCT | MAY-JUN |
| 94 | Blue crab | | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | SEP-OCT | MAY-JUN |
| 95 | Blue crab | | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | SEP-OCT | MAY-JUN |
| 96 | Blue crab | | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | SEP-OCT | MAY-JUN |
| 97 | Blue crab | | | | | X | X | X | X | X | X | X | X | X | X | X | X | JUL-AUG | SEP-OCT | MAY-JUN |