

# INLET SUMMARY SHEET

INLET: Bissel Cove; Annaquaticket River (#21)

DATE AND TIME SURVEYED AND TIDE STAGE: 19 March 1999, 08:40-09:05. High at 08:59 (+4.5), Low at 14:28 (-0.9), at Wickford Station #1183.

INLET CLASS: C

GEOMORPHOLOGY: A long spit has built down the shore from the northwest, forcing the river mouth to the southeast and creating a "half inlet" configuration. The neck (northwest end) of the spit is under water at high spring tide.

PRINCIPAL RESOURCES AT RISK: Salt marshes and tidal flats are associated with Bissel Cove; Annaquaticket River. Numerous birds, including waterfowl (black duck, mallard, puddle duck, geese, mergansers), wading birds, shore birds, and gulls utilize the area. Otters are present. Winter flounder, striped bass, and eels are known to be in the cove. Alewife (*Alosa pseudoharengus*) runs are known to occur in this area, and a fish ladder has been installed here to enable anadromous runs. Blue crabs, quahogs (*Mercenaria*), oysters, and clams are present in the vicinity, and the area is a transplant/stocking location for quahogs (by the State). Recreational and some commercial clamming and fishing occurs in the vicinity. Bissel Cove; Annaquaticket River has some recreational boating, and there are a number of residences distributed around the cove. At least part of the property around Bissel Cove (Rome Point) is owned by Narragansett Electric Company.

PRELIMINARY PROTECTION STRATEGY: Objective is to trap the majority of the incoming oil before it enters the principal body of Bissel Cove; Annaquaticket River. CP-1 and CP-2 are shore-based Collection Points and are located on the southeast side of the inlet. CP-3 is an open water skimmer. Since part of the spit at the northwestern part of the cove (southernmost part of Wild Goose Pt.) is under water at high tide, protection boom should be deployed at this location. The option to utilize sediment from the lower part of the intertidal zone to raise the elevation of this area could also be considered, but sediment is sparse.

From an anchor point northwest of the mouth of the inlet, deploy deflection boom in a SSE direction to an anchor point (CP-1) on the southeast side of the inlet entrance. From an anchor point at the end of the spit, deploy deflection boom in a SW direction to an anchor point (CP-2) on the southern side of the inlet at the sandy bank.

From the anchor point used for CP-2 at the end of the spit, deploy deflection boom in a SWW direction to a skimmer (CP-3) located in the channel. From CP-2, deploy deflection boom to the skimmer (CP-3).

<b>Collection Point</b>	<b>Description</b>	<b>Access</b>	<b>Proposed Equipment</b>
	Protection boom. Mixed sand and gravel beach; some shell	From Hwy. 1A (Boston Neck Rd.) south of Wickford, turn east towards Wild Goose Pt., then south to access point.	Approx. 400 ft. protection boom, 4 sets of anchors.
CP-1	Mixed sand and gravel beach (mostly sand)	Same as above, and continue at low tide to access point.	Approx. 300 ft. deflection boom, 3 sets of anchors.
CP-2	Sand bank/beach	From Hwy. 1A (Boston Neck Rd.) south of Hamilton, turn east towards Rome Pt., then follow dirt road to access point.	Approx. 250 ft. deflection boom, 3 sets of anchors.
CP-3	Open water skimmer	Can be deployed from the location where the protection boom (see above) is deployed.	Approx. 1,200 ft. deflection boom, 12 sets of anchors, skimmer.

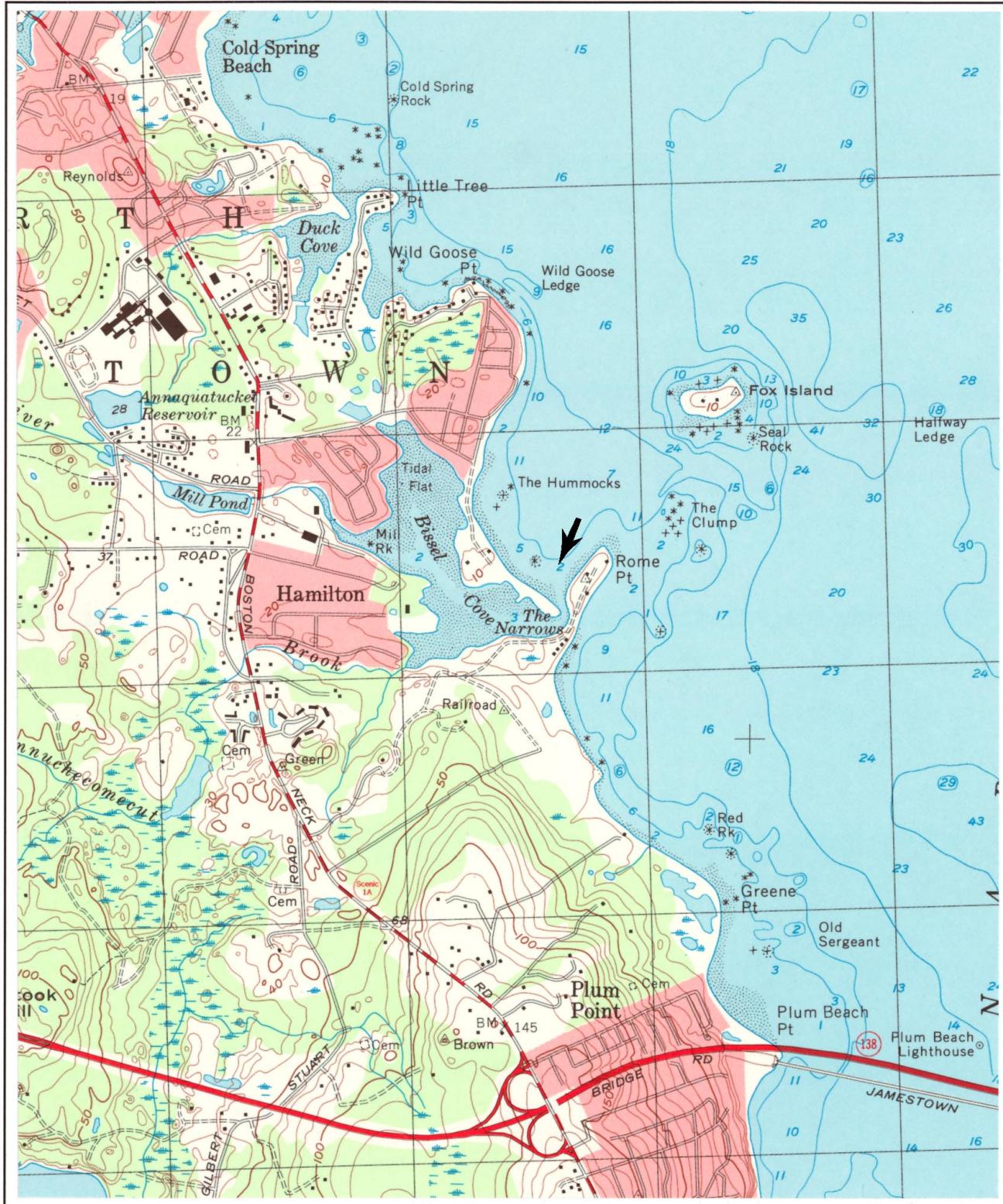
**RESOURCES REQUIRED (if full strategy is implemented):** Approximately 1,750 ft. of deflection boom; 400 ft. of protection boom; 22 anchor sets minimum. One JBF 420 Skimmer System with skimming capacity of 225 bbl/hr, and onboard storage capacity of 1,320 gals. Vacuum trucks (2,000-5,000 gal. capacity) with skimmer heads, additional storage capacity, and other equipment as needed.

#### **CONTACT INFORMATION:**

- Rhode Island Dept. of Env. Mgmt. Emergency Response: (401) 222-3070  
U.S. Fish and Wildlife: (401) 364-9124  
U.S. Coast Guard: (401) 435-2300  
Coastal Resources Management Council: (401) 783-3370  
North Kingstown EMA Director: (401) 294-3311

#### **OTHER COMMENTS:**

# 21 - BISSEL COVE; ANAQUATUCKET RIVER



From USGS 7.5' topographic quad: Wickford, Rhode Island, published: 1995

SCALE 1 : 24,000

1 .5 0 1

MILES

1 .5 0 1

KILOMETERS



## INLET SKETCH MAP

BISSEL COVE;  
Inlet Name ANNAQUATUCKET RIVER

Inlet Number 21

Recorder(s) MOH/LC/SM/KD

Date/Time 19 MARCH 1999; 0905

Tide Stage HIGH

Inlet Classification C

### CHECKLIST

- North Arrow
- Scale
- Substrate Type

159

### LEGEND

R  
Red Channel  
Marker Buoy

G  
Green Channel  
Marker Buoy

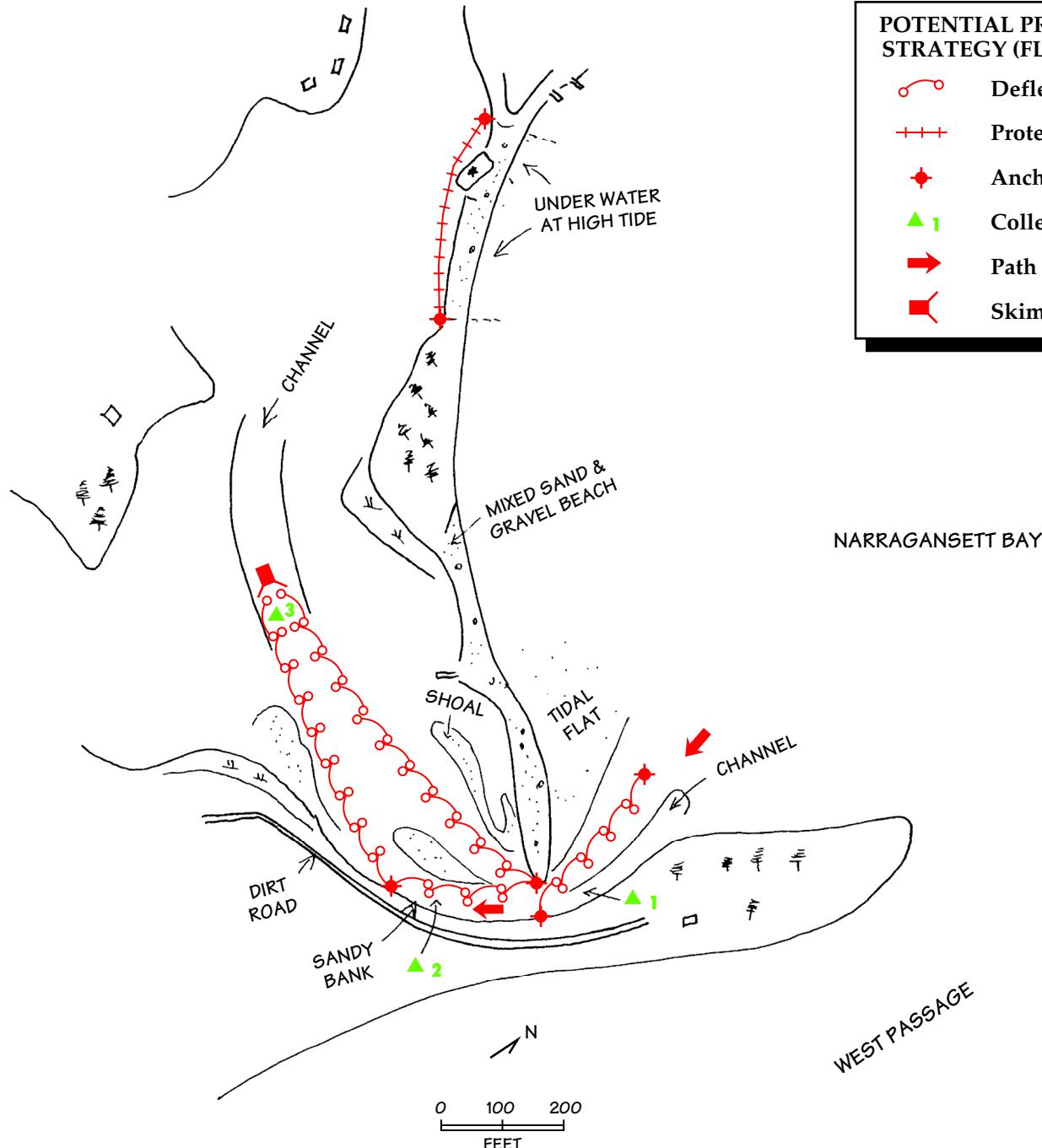
Y  
Marsh

ooooo  
Riprap

.....  
Sand

.....  
Sand & Gravel

.....  
Gravel



### POTENTIAL PROTECTION STRATEGY (FLOOD TIDE)

- Deflection Boom
- ++ Protection Boom
- ◆ Anchor Point
- ▲ 1 Collection Point
- Path of Oil
- Skimmer

## 21 - BISSEL COVE; ANAQUATUCKET RIVER



From USGS NAPP: roll #8355, frame #216; March 1995; scale -1:40,000

0 1 2 MILES



Looking NWW at low tide on 17 March 1999, Bissel Cove; Annaquaticket River (#21). Inlet throat in foreground.



Looking SSW at low tide on 17 March 1999, Bissel Cove; Annaquaticket River (#21). This part of the spit (neck) is under water at high spring tide.