

## INLET SUMMARY SHEET

INLET: Sakonnet River; The Cove (#45)

DATE AND TIME SURVEYED AND TIDE STAGE: 24 March 1999, 08:00 - 09:00. Low at 06:51 (+0.1), High at 13:28 (+3.4), at Anthony Point, Sakonnet River Station #1147.

INLET CLASS: A/B

GEOMORPHOLOGY: Natural channel and cove area that has been modified to build harbor area. Highway bridge construction has created constrictions that strongly amplify current velocities.

PRINCIPAL RESOURCES AT RISK: The shoreline that encompasses the Sakonnet River between Sakonnet Bridge (to the north) and the Old Stone Bridge (to the south) is appreciably modified with riprap, riprap jetties, seawall, marinas, and boat piers. Interspersed between these structures are sand and mixed sand and gravel beaches, and a few flats (nearshore). The cove also has a considerable number of piers, boat slips, and marinas, but has more tidal flats and salt marshes. Numerous birds, including waterfowl (black ducks, mergansers, scaups) and gulls utilize the area. Winter flounder, tautog, and alewife may be in the area. Blue and horseshoe crabs are present. Clams, quahogs, and oysters are found in the area. The area has very heavy recreational use, including bathing beaches, fishing and clamming, boating, picnic areas, etc. Note that the area is often closed for oyster collection due to pollution. A large number of boats pass through this area. There are numerous residences distributed around the area, both in the narrows and in the cove. There are several fish processing/packing facilities (presumably with water intakes) on the eastern bank of the Sakonnet River between the Sakonnet and Old Stone Bridges.

PRELIMINARY PROTECTION STRATEGY: Both flood- and ebb-tide protection strategies are prepared for Sakonnet River/The Cove.

Flood-tide: CP-1 to CP-4 are shore-based Collection Points. CP-5 to CP-7 are open water skimmers. CP-1 and CP-3 are located on the eastern side, and CP-2 and CP-4 are located on the western side.

From an anchor point SE of the Old Stone Bridge, deploy deflection boom in a NW direction to an anchor point (CP-3) at the eastern part of Old Stone Bridge (Grinnells Beach - sand beach). From an anchor point SSW of the Old Stone Bridge, deploy deflection boom in a NNE direction to an anchor point (CP-4) at the western part of Old Stone Bridge (sand beach). Deploy protection boom across the entrance to the marina located SE of Almy Pt. at the entrance to The Cove.

From an anchor point on the western side of Almy Pt. at the entrance to The Cove, deploy deflection boom in a westerly direction to the skimmer at CP-7. From an anchor point on the western side of Hummock Pt. at the entrance to The Cove, deploy deflection boom in a westerly direction to the skimmer at CP-7.

From an anchor point in the channel east of the mouth to The Cove, deploy deflection boom in a NW direction to the sand and pebble beach (CP-2) on the NE side of Hummock Pt. From the same anchor point in the channel, deploy deflection boom in a NE direction to the skimmer at CP-5. From an anchor point in the channel, deploy deflection boom in a NW direction to the skimmer at CP-5. From this same anchor point in the channel, deploy deflection boom in a NE direction to an anchor point (CP-1) at Anthony Pt. (Anthony Point Marina/Quality Yacht Service).

<b>Collection Point</b>	<b>Description</b>	<b>Access</b>	<b>Proposed Equipment</b>
CP-1	Riprap/sand and gravel beach	From Sakonnet Bridge, turn south on Hwy. 77 (Main St.). Turn west to access point at Anthony Point Marina/Quality Yacht Service.	Approx. 900 ft. deflection boom, 9 sets of anchors.
CP-2	Sand and pebble beach	From Hwy. 138 (Anthony Lane), turn south towards The Hummocks. Go towards Hummock Pt. Access from the east side of road.	Approx. 300 ft. deflection boom, 3 sets of anchors.
CP-3	Sand beach	From Sakonnet Bridge, turn south on Hwy. 77 (Main St.). Turn west to access point at Old Stone Bridge.	Approx. 300 ft. deflection boom, 3 sets of anchors.
CP-4	Sand beach	From CP-3, continue south to Old Stone Bridge.	Approx. 250 ft. deflection boom, 3 sets of anchors.
CP-5	Skimmer	Deploy from one of various access points in the area.	Approx. 550 ft. deflection boom, 6 sets of anchors, skimmer.

Collection Point	Description	Access	Proposed Equipment
CP-6	Skimmer	Deploy from one of various access points in the area.	Approx. 950 ft. deflection boom, 10 sets of anchors, skimmer.
CP-7	Skimmer	Deploy from one of various access points in the area.	Approx. 800 ft. deflection boom, 8 anchor sets, skimmer.
	Protection boom at entrance to marina	From Hwy. 138 (Anthony Lane), turn south towards The Hummocks. After crossing bridge, turn east to marina.	Approx. 100 ft. protection boom 2 anchor sets.

RESOURCES REQUIRED (if full strategy for flood-tide is implemented): Approximately 4,050 ft. of deflection boom; 100 ft. protection boom; 44 anchor sets minimum. Three JBF 420 Skimmer Systems 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.

Ebb-tide: CP-1 to CP-4 are shore-based Collection Points. CP-5 and CP-6 are open water skimmers. CP-1 and CP-3 are located on the eastern side and CP-2 and CP-4 are located on the western side.

From an anchor point in the channel north of the Sakonnet River, deploy deflection boom in a SSE direction to an anchor point (CP-4) at the base of the railroad bridge. From an anchor point in the channel north of the Sakonnet River, deploy deflection boom in a SSW direction to an anchor point (CP-3) at the base of the railroad bridge.

From an anchor point in the channel west of Anthony Pt., deploy deflection boom in a SSW direction to the sand and pebble beach (CP-2) on the NE side of Hummock Pt. From the same anchor point in the channel, deploy deflection boom in a southerly direction to the skimmer at CP-5. From an anchor point in the channel west of Anthony Pt., deploy deflection boom in a SSW direction to the skimmer at CP-5. From this same anchor point in the channel, deploy deflection boom in a SE direction to an anchor point (CP-1) at Anthony Pt. (Anthony Point Marina/Quality Yacht Service).

From anchor points on Old Stone Bridge, deploy deflection boom in a southerly direction to the skimmer at CP-6. Deploy protection boom across the entrance to the marina located SE of Almy Pt. at the entrance to The Cove.

<b>Collection Point</b>	<b>Description</b>	<b>Access</b>	<b>Proposed Equipment</b>
CP-1	Riprap/sand and gravel beach	From Sakonnet Bridge turn south on Hwy. 77 (Main St.). Turn west to access point at Anthony Point Marina/Quality Yacht Service.	Approx. 300 ft. deflection boom, 3 sets of anchors.
CP-2	Sand and pebble beach	From Hwy. 138 (Anthony Lane) turn south towards The Hummocks. Access from the east side of road near Hummock Pt.	Approx. 750 ft. deflection boom, 8 sets of anchors.
CP-3	Seawall	From Sakonnet Bridge turn north on Hwy. 77 (Main St.). Turn west to access point.	Approx. 200 ft. deflection boom, 3 sets of anchors.
CP-4	Seawall	From Hwy. 138 (Anthony Lane) turn north towards The Hummocks, then east on Anthony Lane to access point.	Approx. 200 ft. deflection boom, 3 sets of anchors.
CP-5	Skimmer	Deploy from one of various access points in the area.	Approx. 850 ft. deflection boom, 9 sets of anchors, skimmer.
CP-6	Skimmer	Deploy from one of various access points in the area.	Approx. 900 ft. deflection boom, 9 sets of anchors, skimmer.
	Protection boom at entrance to marina	From Hwy. 138 (Anthony Lane) turn south towards The Hummocks. After crossing bridge, turn east to marina.	Approx. 100 ft. protection boom 2 anchor sets.

**RESOURCES REQUIRED (if full strategy for ebb-tide is implemented):** Approximately 3,200 ft. of deflection boom; 100 ft. protection boom; 37 anchor sets minimum. Two JBF 420 Skimmer Systems 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
Portsmouth EMA Director:	(401) 683-5510

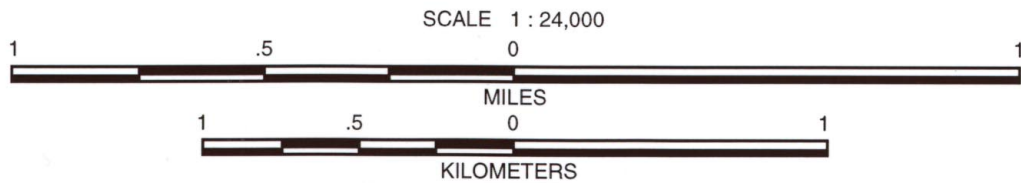
OTHER COMMENTS:

Strong currents observed at flood tide through the Old Stone Bridge area.

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From USGS 7.5' topographic quads: Fall River, Mass-Rl published: 1967, photorevised 1979; Tiverton, RI-Mass published: 1949, photorevised 1970 and 1975



# INLET SKETCH MAP

Inlet Name SAKONNET RIVER / THE COVE

Inlet Number 45

Recorder(s) MOH/LC

Date/Time 24 MARCH 1999; 0845

Tide Stage LOW








Inlet Classification A / B

## CHECKLIST





- North Arrow
- Scale
- Substrate Type

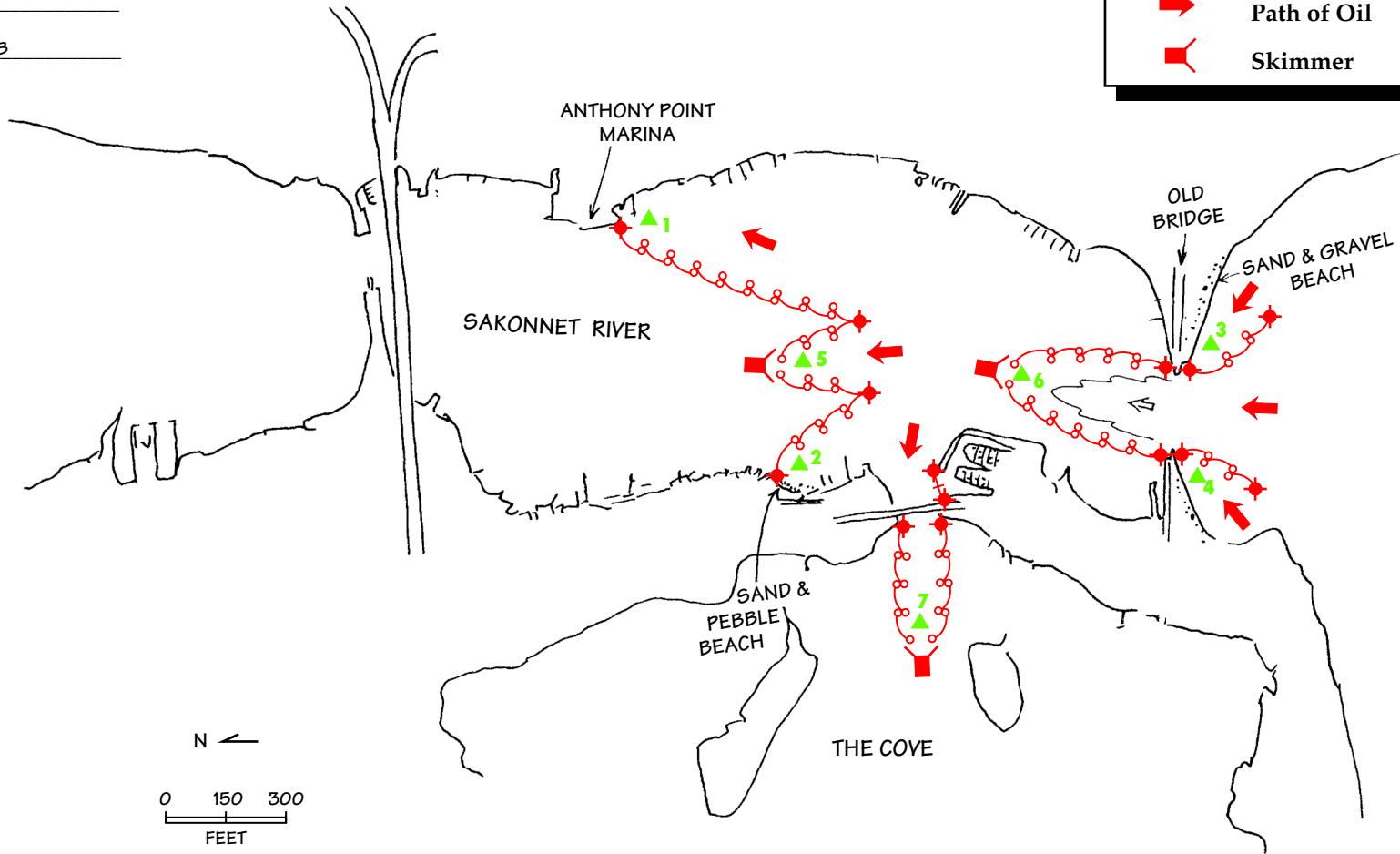
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## LEGEND

-  Red Channel Marker Buoy
-  Green Channel Marker Buoy
-  Marsh
-  Riprap
-  Sand
-  Sand & Gravel
-  Gravel

### POTENTIAL PROTECTION STRATEGY (FLOOD TIDE)

-  Deflection Boom
-  Protection Boom
-  Anchor Point
-  Collection Point
-  Path of Oil
-  Skimmer



# INLET SKETCH MAP

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




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




POTENTIAL PROTECTION STRATEGY (EBB TIDE)	
	Deflection Boom
	Protection Boom
	Anchor Point
	Collection Point
	Path of Oil
	Skimmer

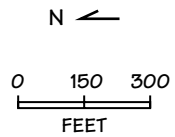
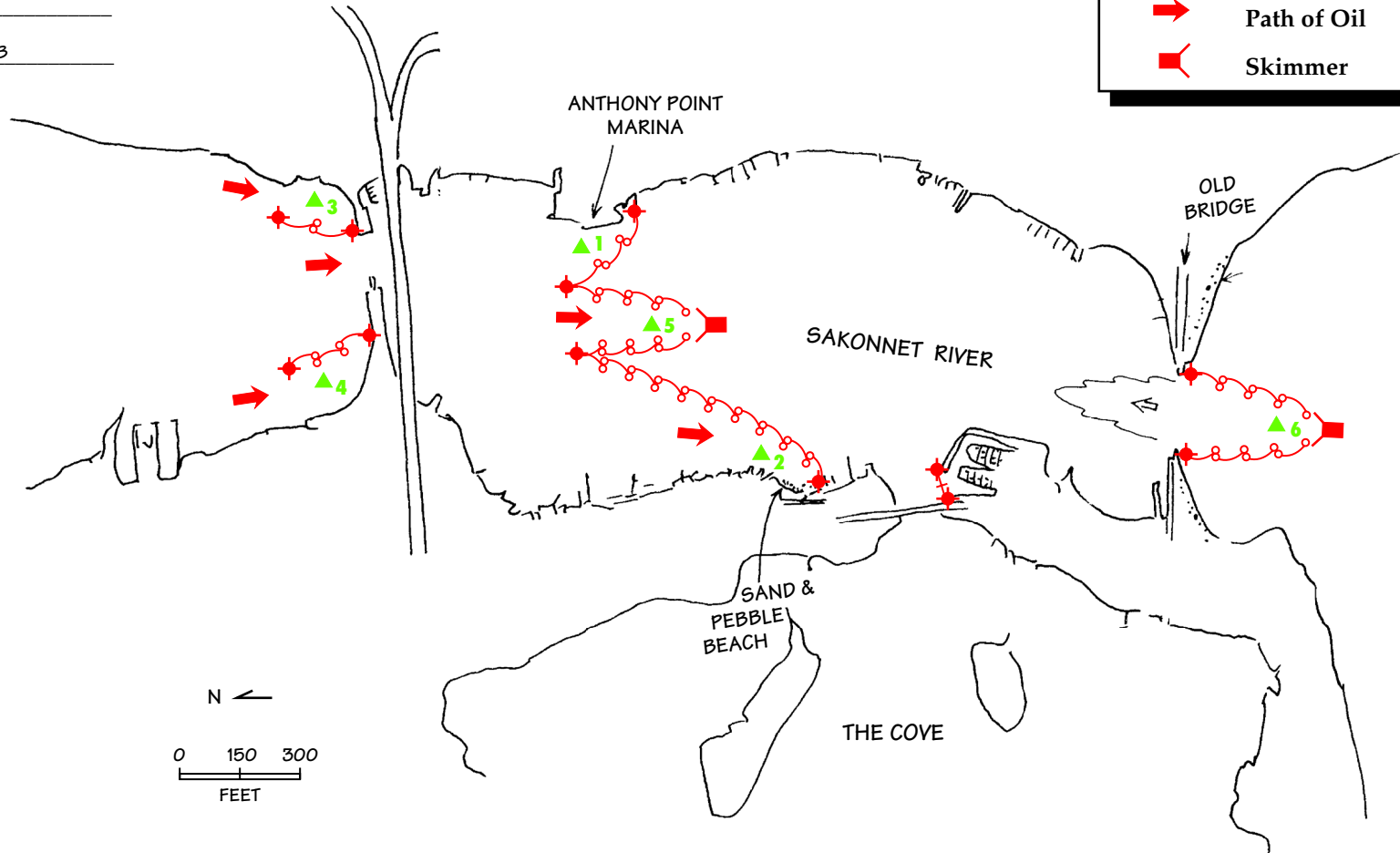
## CHECKLIST

- North Arrow
- Scale
- Substrate Type

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## LEGEND

-  Red Channel Marker Buoy
-  Green Channel Marker Buoy
-  Marsh
-  Riprap
-  Sand
-  Sand & Gravel
-  Gravel





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From USGS NAPP: roll #8358, frame #74; March 1995; scale -1:40,000





Looking north at CP-2 at low tide on 24 March 1999, Sakonnet River; The Cove (#45).



Looking NNE at low tide on 17 March 1999, Sakonnet River; The Cove (#45).