

Tactics Legend

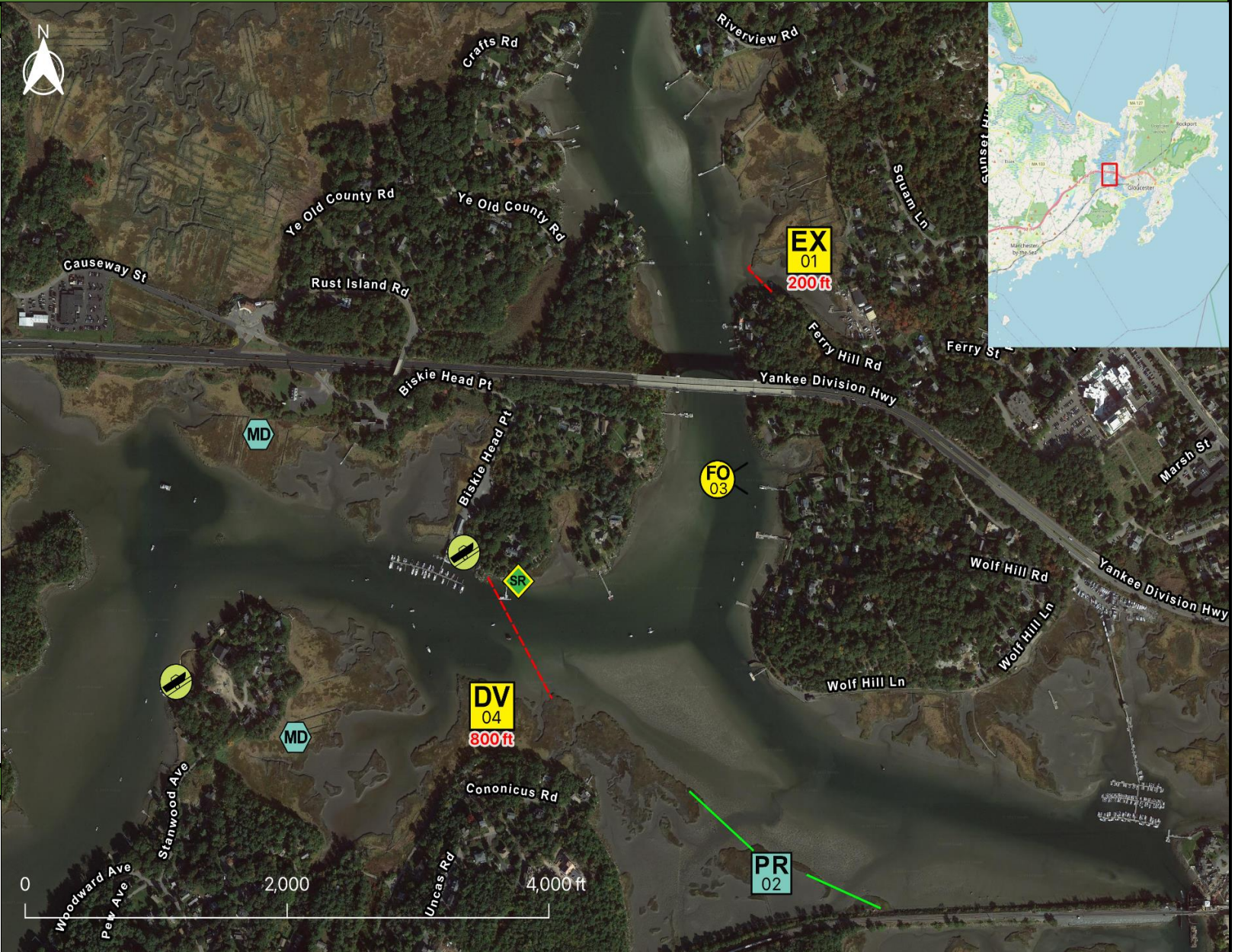
- DF** Deflection Booming
- DV** Diversion Booming
- EX** Exclusion Booming
- FO** Free Oil Recovery
- PR** Passive Recovery
- SR** Shoreside Recovery
- S** Staging Area
-  Boat Ramp
- BB** Beach Berm
- TG** Tide Gate
-  Protected-Water Boom
-  Open-Water Boom
-  Snare/ Sorbent Boom

Equipment - All Tactics

Boom(ft)	1000
Marine anchors	5
Shore anchors	4
Sorbent Boom(ft)	900
FO Recovery Sys	1
Shore Responders	2
Boat Responders	3
Boats	2

Version

2/15/2023



Response Trailer, Tactics Deployment, and Responder Safety Information






A total of 1 state response trailers are required to implement all the tactics in this GRS. Responders should always consider on-scene conditions before deploying GRP tactics. Tactics may not be safe or effective under certain conditions. Responder safety should always be the first priority.

Location

Latitude: 42°37'27" N  
 Longitude: 70°41'28" W  
 NOAA Chart # 13281

**Geographic Response Strategy**

**South Annisquam River NS17A**

Tactic #	Purpose	Response Equipment	Deployment Resources	Deployment Notes
<b>EX-01</b> 	Prohibit oil slicks from entering a sensitive area	200 ft protected water boom 1 marine anchor system 2 shoreline anchor system	2 shore responders 1 response boats 3 boat responders	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first.
		N/A	Testing Date	
<b>PR-02</b> 	Remove spilled oil by collecting it in a sorbent material	900 ft sorbent boom 900 ft sorbent pom-poms 26 anchor stakes	2 shore responders	Place and stake snare or sorbent boom in areas that are likely to pool and collect oil and across the mouths of the streams and intertidal areas. Use snare boom for persistent oils and sorbent boom for non-persistent oils. Approach the streams and intertidal areas on rising tide. Replace as necessary to maximize oil recovery.
		N/A	Testing Date	
<b>FO-03</b> 	Contain and recover spilled oil on the water in the offshore & nearshore environment	1 or more onwater skimming systems		Deploy on-water recovery task force(s) in configuration suitable for types of vessels used and sea conditions, with skimming system(s) and temporary storage for recovered oil and water. Location not exact, will move to chase oil.
		N/A	Testing Date	
<b>DV-04</b> 	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	800 ft protected water boom 4 marine anchor system 2 shoreline anchor system	2 shore responders 1 response boats 3 boat responders	Tend through tidal changes. Deploy boom as depicted to divert incoming oil to the collection site. Anchor every 200-300'. Adjust angle as necessary to reduce entrainment. Set up shoreside recovery and tend throughout tide. Deploy shoreside anchor first.
		10/3/2012	Testing Date	
<b>SR-04</b> 	Remove spilled oil that has been diverted to a designated recovery site accessible from shore	1 skimming system 1 storage tank or bladder 1 hoses, pumps, fittings	2 shore responders	Set up shoreside recovery tactic at general location depicted on map. Some access points located at private residences. Access may be difficult.
		N/A	Testing Date	



**Local contacts**

Gloucester Fire Department	<a href="tel:978-281-9760">978-281-9760</a>
Gloucester Harbormaster	<a href="tel:978-282-3012">978-282-3012</a>
Gloucester Shellfish Constable	<a href="tel:978-281-9781">978-281-9781</a>
Mass Bays Estuary Assn	<a href="tel:978-374-0519">978-374-0519</a>
U.S.C.G. Station Gloucester	<a href="tel:978-283-0705">978-283-0705</a>
Mass Division of Marine Fisheries	<a href="tel:617-626-1520">617-626-1520</a>
Environmental Police	<a href="tel:800-632-8075">800-632-8075</a>



*Entrance to Little River and site of DV-04 (09 April 2009 photo)*

**Resources Protected**

Marine Mammals	None identified
Fish	Finfish
Invertebrates	Shellfish, Urchins
Birds	None identified
Threat/End. Species	None identified
Cultural	None identified
Subsistence	None identified
Human Use	Beach, Boat, Ramp, Marina, Port/Harbor
Commercial Fishing	None identified
Land Management	None identified
Coastal Habitat	Marsh, Tidal Flats, Rocky Shoreline



*Marsh and marina north of train bridge at low tide looking east. Site of EX-01c (26 June 2009 photo)*

**Special Considerations & Navigational Hazards**

Tide range 7-11 ft. Current exceeds 7 kts at drawbridge. Elsewhere max currents range from .5 to 3 kts. Vessel operators should have local knowledge.

**Tactics Legend**

**Equipment - All Tactics**

Boom(ft)	2600
Marine anchors	13
Shore anchors	4
Sorbent Boom(ft)	700
FO Recovery Sys	0
Shore Responders	2
Boat Responders	6
Boats	2

**Response Trailer, Tactics Deployment, and Responder Safety Information**

**Location**





A total of **3** state response trailers are required to implement all the tactics in this GRS.  
 Responders should always consider on-scene conditions before deploying GRP tactics.  
 Tactics may not be safe or effective under certain conditions.  
 Responder safety should always be the first priority.

**Latitude:**  
**Longitude:**  
**NOAA Chart #** 13281

**Version**  
**2/15/2023**

**Geographic Response Strategy**

**South Annisquam River NS17B**

Tactic #	Purpose	Response Equipment	Deployment Resources	Deployment Notes
<b>EX-01a</b> 	Prohibit oil slicks from entering a sensitive area	1600 ft protected water boom 8 marine anchor system 2 shoreline anchor system	2 shore responders 2 response boats 6 boat responders	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first. Readjust boom angle as needed to reduce entrainment
		N/A	Testing Date	
<b>EX-01b</b> 	Prohibit oil slicks from entering a sensitive area	1000 ft protected water boom 5 marine anchor system 2 shoreline anchor system	2 shore responders 2 response boats 6 boat responders	Tend through tidal changes. Deploy boom as depicted to exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first. Readjust boom angle as needed to reduce entrainment
		N/A	Testing Date	
<b>PR-02</b> 	Remove spilled oil by collecting it in a sorbent material	700 ft sorbent boom 700 ft sorbent pom-poms 20 anchor stakes	2 shore responders	Place and stake snare or sorbent boom in areas that are likely to pool and collect oil and across the mouths of the streams and intertidal areas. Use snare boom for persistent oils and sorbent boom for non-persistent oils. Approach the streams and intertidal areas on rising tide. Replace as necessary to maximize oil recovery.
		N/A	Testing Date	
<b>SR-03</b> 	Remove spilled oil that has been diverted to a designated recovery site accessible from shore	1 skimming system 1 storage tank or bladder 1 hoses, pumps, fittings	2 shore responders	Set up shoreside recovery tactic at general location depicted on map. Some access points located at private residences. Access may be difficult.
		N/A	Testing Date	

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*Entrance to Little River and site of DV-04 (09 April 2009 photo)*

**Resources Protected**

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Invertebrates	Shellfish, Urchins
Birds	None identified
Threat/End. Species	None identified
Cultural	None identified
Subsistence	None identified
Human Use	Beach, Boat, Ramp, Marina, Port/Harbor
Commercial Fishing	None identified
Land Management	None identified
Coastal Habitat	Marsh, Tidal Flats, Rocky Shoreline



*Marsh and marina north of train bridge at low tide looking east. Site of EX-01c (26 June 2009 photo)*

**Special Considerations & Navigational Hazards**

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