

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)	2800
Marine anchors	15
Shore anchors	8
Sorbent Boom(ft)	5100
FO Recovery Sys	1
Shore Responders	2
Boat Responders	6
Boats	2

Version

10/13/2022



Response Trailer, Tactics Deployment, and Responder Safety Information

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.

Location

Latitude: 42°48'29" N
Longitude: 70°49'23" W
NOAA Chart # 13282

Geographic Response Strategy

Merrimack River Entrance NS03

Tactic #	Purpose	Response Equipment	Deployment Resources	Deployment Notes
EX-01a 	Prohibit oil slicks from entering a sensitive area	500 ft protected water boom 3 marine anchor system 4 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	
EX-01b 	Prohibit oil slicks from entering a sensitive area	600 ft protected water boom 3 marine anchor system 4 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	
EX-01c 	Prohibit oil slicks from entering a sensitive area	1000 ft protected water boom 5 marine anchor system 4 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.
		N/A	Testing Date	
EX-01d 	Prohibit oil slicks from entering a sensitive area	700 ft protected water boom 4 marine anchor system 4 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	
PR-02 	Remove spilled oil by collecting it in a sorbent material	1300 ft sorbent boom 1300 ft sorbent pom-poms 37 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	
PR-02 	Remove spilled oil by collecting it in a sorbent material	400 ft sorbent boom 400 ft sorbent pom-poms 11 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	
PR-02 	Remove spilled oil by collecting it in a sorbent material	2000 ft sorbent boom 2000 ft sorbent pom-poms 57 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	
PR-02 	Remove spilled oil by collecting it in a sorbent material	1400 ft sorbent boom 1400 ft sorbent pom-poms 40 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	
FO-03 	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	

Local contacts

Newburyport Fire Department	978-465-4427
Newburyport Harbormaster	978-462-3746
Salisbury Fire Department	978-465-3631
Salisbury Harbormaster	978-499-0740
Mass Bays Estuary Assn	978-374-0519
USCG Station Merrimack	978-462-3428
Mass Division of Marine Fisheries	617-626-1520
Environmental Police	800-632-8075



Black Rock Creek and boat ramp. Site of EX-01b

Resources Protected

Marine Mammals	None identified
Fish	Anadromous, finfish
Invertebrates	Shellfish, Lobster, Crab, Shrimp, Urchins
Birds	Nesting Areas, Bald Eagle, Seabirds, Shorebirds, Plover, Roseate Tern, Pied-Billed Grebe
Threat/End. Species	None identified
Cultural	None identified
Subsistence	None identified
Human Use	Boat Ramps, Marinas
Commercial Fishing	None identified
Land Management	State management Area, National Wildlife Reserve
Coastal Habitat	Marsh/Swamp, Tidal Flats, Beach, Rocky Shore



Plumbush Creek looking west at high tide. Site of EX-01d

Special Considerations & Navigational Hazards

Seal haul out area located in entrance to Merrimack river on Black Rock. The beach area of EX-01b is a sensitive nesting area for shorebirds and should be avoided between April 1 and August 31. Tidal range of 7-9 ft. Tidal Current max speed of 4-5 kts at inlet constriction points. Extensive tidal flats exposed during low tides. Vessel operators should have local knowledge and experience in operating in strong currents.