

Tactics Legend

-  Deflection Booming
-  Diversion Booming
-  Exclusion Booming
-  Free Oil Recovery
-  Passive Recovery
-  Shoreside Recovery
-  Staging Area
-  Boat Ramp
-  Beach Berm
-  Tide Gate
-  Protected-Water Boom
-  Open-Water Boom
-  Snare/ Sorbent Boom

Equipment - All Tactics

Boom(ft)	1100
Marine anchors	7
Shore anchors	5
Sorbent Boom(ft)	0
FO Recovery Sys	0
Shore Responders	2
Boat Responders	3
Boats	2

Response Trailer, Tactics Deployment, and Responder Safety Information

A total of **2** 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°50'15" N
Longitude: 70°55'9" W
NOAA Chart # 13282

Version

2/15/2023

Geographic Response Strategy

Upper Merrimack River NS01A

Tactic #	Purpose	Response Equipment	Deployment Resources	Deployment Notes
DV-01a 	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	300 ft protected water boom 2 marine anchor system 1 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. Alternate deployment with tide - reset during slack.
		10/21/2014	Testing Date	
DV-01b 	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	300 ft protected water boom 2 marine anchor system 1 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. Alternate deployment with tide - reset during slack.
			Testing Date	
DV-01c 	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	300 ft protected water boom 2 marine anchor system 1 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. Alternate deployment with tide - reset during slack.
			Testing Date	
EX-02 	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. Readjust boom angle as needed to reduce entrainment
		10/21/14	Testing Date	
SR-03 	Remove spilled oil that has been diverted to a designated recovery site accessible from shore	3 skimming system 3 storage tank or bladder 3 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

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



Carr Island Channel looking north at high tide on 20 May 2009. Site of DF-03b

Resources Protected

Marine Mammals	None identified
Fish	Anadromous, finfish
Invertebrates	None identified
Birds	Bald Eagle, Seabirds
Threat/End. Species	None identified
Cultural	None identified
Subsistence	None identified
Human Use	Boat Ramps, Marinas
Commercial Fishing	None identified
Land Management	None identified
Coastal Habitat	Fresh Water River, Muddy Banks, Marsh/Swamp, Riprap



Collection site west of Newburyport Boat Basin at high tide on 20 May 2009. Site of DV-01e

Special Considerations & Navigational Hazards

Tidal range of 6-8 ft. Tidal current max speed 4-5 kts in constricted areas 1.5 - 2 kts elsewhere. Vessel operators should have local knowledge and experience in operating in strong currents.