

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

2/15/2023



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  |
|--|--|---|---|---|
| <b>EX-01a</b><br>  | Prohibit oil slicks from entering a sensitive area                                   | 500 ft protected water boom<br>3 marine anchor system<br>2 shoreline anchor system  | 2 shore responders<br>1 response boats<br>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>EX-01b</b><br>  | Prohibit oil slicks from entering a sensitive area                                   | 600 ft protected water boom<br>3 marine anchor system<br>2 shoreline anchor system  | 2 shore responders<br>1 response boats<br>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>EX-01c</b><br>  | Prohibit oil slicks from entering a sensitive area                                   | 1000 ft protected water boom<br>5 marine anchor system<br>2 shoreline anchor system | 2 shore responders<br>2 response boats<br>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  |   |
| <b>EX-01d</b><br>  | Prohibit oil slicks from entering a sensitive area                                   | 700 ft protected water boom<br>4 marine anchor system<br>2 shoreline anchor system  | 2 shore responders<br>1 response boats<br>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><br>   | Remove spilled oil by collecting it in a sorbent material                            | 1300 ft sorbent boom<br>1300 ft sorbent pom-poms<br>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  |   |
| <b>PR-02</b><br>   | Remove spilled oil by collecting it in a sorbent material                            | 400 ft sorbent boom<br>400 ft sorbent pom-poms<br>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  |   |
| <b>PR-02</b><br> | Remove spilled oil by collecting it in a sorbent material                            | 2000 ft sorbent boom<br>2000 ft sorbent pom-poms<br>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  |   |
| <b>PR-02</b><br> | Remove spilled oil by collecting it in a sorbent material                            | 1400 ft sorbent boom<br>1400 ft sorbent pom-poms<br>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  |   |
| <b>FO-03</b><br> | 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       | <a href="tel:978-465-4427">978-465-4427</a> |
| Newburyport Harbormaster          | <a href="tel:978-462-3746">978-462-3746</a> |
| Salisbury Fire Department         | <a href="tel:978-465-3631">978-465-3631</a> |
| Salisbury Harbormaster            | <a href="tel:978-499-0740">978-499-0740</a> |
| Mass Bays Estuary Assn            | <a href="tel:978-374-0519">978-374-0519</a> |
| USCG Station Merrimack            | <a href="tel:978-462-3428">978-462-3428</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> |



*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.