MassDEP North Shore Geographic Response Strategy

Manchester Harbor NS21A

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)	4700
Marine anchors	27
Shore anchors	13
Sorbent Boom(ft)	0
FO Recovery Sys	1
Shore Responders	2
Boat Responders	9
Boats	3

Version

12/31/25

Response Trailer, Tactics Deployment, and Responder Safety Information

A total of **5** 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°34’8” N
Longitude:	70°46’29” W
NOAA Chart #	13275

Geographic Response Strategy				Manchester Harbor NS21A
Tactic #	**Purpose**	**Response Equipment**	**Deployment Resources**	**Deployment Notes**
DV-01a DV	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	800 ft protected water boom 7 marine anchor system 1 shoreline anchor system **Testing Date**	2 shore responders 1 response boats 3 boat responders N **Tested**	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.
DV-01b DV	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 2 shoreline anchor system **Testing Date**	2 shore responders 1 response boats 3 boat responders N **Tested**	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.
EX-02a EX	Prohibit oil slicks from entering a sensitive area	1600 ft protected water boom 8 marine anchor system 2 shoreline anchor system **Testing Date**	2 shore responders 2 response boats 6 boat responders N **Tested**	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
EX-02b EX	Prohibit oil slicks from entering a sensitive area	1200 ft protected water boom 6 marine anchor system 2 shoreline anchor system 09/16/19 **Testing Date**	2 shore responders 2 response boats 6 boat responders Y **Tested**	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.
EX-02b-alt EX	Prohibit oil slicks from entering a sensitive area	400 ft protected water boom 2 marine anchor system 2 shoreline anchor system 04/10/24 **Testing Date**	2 shore responders 1 response boats 3 boat responders Y **Tested**	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
EX-02c EX	Prohibit oil slicks from entering a sensitive area	200 ft protected water boom 1 marine anchor system 2 shoreline anchor system **Testing Date**	2 shore responders 1 response boats 3 boat responders N **Tested**	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
EX-02d EX	Prohibit oil slicks from entering a sensitive area	200 ft protected water boom 1 marine anchor system 2 shoreline anchor system **Testing Date**	2 shore responders 1 response boats 3 boat responders N **Tested**	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
CB-03 CB	Prevent oil that has entered drainage systems from impacting waterways and sensitive areas	3 inflatable plug, sand bag, or plywood N/A **Testing Date**	2 shore responders **Tested**	At low tide deploy appropriate size inflatable culvert plug in the culvert. Monitor to ensure blocking integrity. Without culvert plug, place plywood or similar sheeting material across the culvert. Use plastic sheeting to ensure the seal. Stack sandbags against plywood to counter outflow pressure.
FO-04 FO	Contain and recover spilled oil on the water in the offshore & nearshore environment	1 or more onwater skimming systems N/A **Testing Date**	**Tested**	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.
SR-05 SR	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 N/A **Testing Date**	2 shore responders **Tested**	Set up shoreside recovery tactic at general location depicted on map. Some access points located at private residences. Access may be difficult.

Local contacts

Manchester by the Sea Fire Department	978-526-4040
Manchester by the Sea Harbormaster	978-526-7832
Manchester by the Sea DPW	978-526-1242
Beverly Harbormaster	978-921-6059
Salem Sound Coastwatch	978-741-7900
USCG Station Gloucester	978-283-0705
Mass Division of Marine Fisheries	617-626-1520
Environmental Police	800-632-8075

Resources Protected

Marine Mammals	**None identified**
Fish	Finfish
Invertebrates	Shellfish, Urchins
Birds	Shorebirds, Nesting Sites
Threat/End. Species	**None identified**
Cultural	**None identified**
Subsistence	**None identified**
Human Use	Boat Ramp, Marina, Moorings, Park
Commercial Fishing	**None identified**
Land Management	**None identified**
Coastal Habitiat	Marsh/Swamp, Rocky Shore, Beach, Tidal Flats

Eastern anchoring point for EX-02a. View looks northeast

Western anchoring point for EX-02a. View looks northwest

Special Considerations & Navigational Hazards

Developed shoreline with riprap pier pilings docks and floats. For all tactics strong currents are present in the harbor. Location of EX-02b will be seasonally dependent based on the presence of moored vessels. Tide range 7-11 ft. Current at Rail Road Bridge greater than 2 kts. Seasonally congested harbor. Vessel operators should have local knowledge.

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Equipment - All Tactics

Boom(ft)	200
Marine anchors	1
Shore anchors	2
Sorbent Boom(ft)	0
FO Recovery Sys	0
Shore Responders	2
Boat Responders	3
Boats	2

Version

12/31/25

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.

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Location

Latitude:	42°33’51” N
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NOAA Chart #	13275

Geographic Response Strategy				Manchester Harbor NS21B
Tactic #	**Purpose**	**Response Equipment**	**Deployment Resources**	**Deployment Notes**
EX-01 EX	Prohibit oil slicks from entering a sensitive area	200 ft protected water boom 1 marine anchor system 2 shoreline anchor system **Testing Date**	2 shore responders 1 response boats 3 boat responders N **Tested**	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
CB-02 CB	Prevent oil that has entered drainage systems from impacting waterways and sensitive areas	1 inflatable plug, sand bag, or plywood **N/A** **Testing Date**	2 shore responders **Tested**	At low tide deploy appropriate size inflatable culvert plug in the culvert. Monitor to ensure blocking integrity. Without culvert plug, place plywood or similar sheeting material across the culvert. Use plastic sheeting to ensure the seal. Stack sandbags against plywood to counter outflow pressure.

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