MassDEP North Shore Geographic Response Strategy

Saugus River NS30

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)	3000
Marine anchors	15
Shore anchors	13
Sorbent Boom(ft)	3500
FO Recovery Sys	2
Shore Responders	2
Boat Responders	3
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°26’8” N
Longitude:	70°58’14” W
NOAA Chart #	

Geographic Response Strategy				Saugus River NS30
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.	300 ft protected water boom 2 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.	400 ft protected water boom 2 marine anchor system 2 shoreline anchor system 9/27/2018 Testing Date	2 shore responders 1 response boats 3 boat responders Y 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-01c DV	Redirect spilled oil from one location or direction of travel to a specific site for recovery.	600 ft protected water boom 3 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	600 ft protected water boom 3 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-02b EX	Prohibit oil slicks from entering a sensitive area	400 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 exclude oil from sensitive areas. Anchor every 200-300'. Not tide dependent. Deploy shoreside anchor first.
EX-02c EX	Prohibit oil slicks from entering a sensitive area	700 ft protected water boom 3 marine anchor system 4 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.
CB-03 CB	Prevent oil that has entered drainage systems from impacting waterways and sensitive areas	4 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.
PR-04 PR	Remove spilled oil by collecting it in a sorbent material	1800 ft sorbent boom 1800 ft sorbent pom-poms 51 anchor stakes N/A Testing Date	2 shore responders Tested	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.
PR-04 PR	Remove spilled oil by collecting it in a sorbent material	1700 ft sorbent boom 1700 ft sorbent pom-poms 49 anchor stakes N/A Testing Date	2 shore responders Tested	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.
FO-05 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.
FO-05 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-06 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

Lynn Fire Department	781-593-1234
Lynn Harbormaster	781-592-6010
Lynn DPW	781-477-7099
Saugus Fire Department	781-231-4155
Saugus Harbormaster	781-248-3020
Saugus DPW	781-231-4145
Saugus River Watershed Council	781-233-5046
Mass. Dept. of Environmental Protection (24 Hours)	888-304-1133
Mass. Division of Marine Fisheries	617-626-1520
Mass. Environmental Police	800-632-8075

Resources Protected

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

Marsh near General Electric Plant at high tide on 09 July 2009. View looks north.

Ballard St boat ramp at high tide on 09 July 2009. View looks south.

Special Considerations & Navigational Hazards

Developed shoreline with riprap pier pilings docks and floats. Tidal range 7-11ft. Vessel operators should have local knowledge. Two bascule bridges call VHF channel 13.