



Cape and Islands Geographic Response Plan

Menemsha Pond CI-24








Map Legend			
BB Beach Berm	DF Deflection Booming	MD Mosquito Ditch	Protected-water Boom (Flood Tide)
CB Culvert Block	EX Exclusion Booming	U.S. Coast Guard Station	Protected-water Boom (Ebb Tide)
DV Diversion Booming	SR Shoreside Recovery	Boat Ramp	Snare or Sorbent Boom
PR Passive Recovery	FO Free-oil Recovery	Snare or Sorbent Boom	Beach Berm Material

A total of 3 State Response Trailers are required to implement all of the tactics in this GRP. 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.










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ID	Location and Description	Response Strategy	Implementation
CI-24-01 	a.) Menemsha Bight Lat. 41°21'16.43"N Lon. 70°46'10.23"W b.) North side of Edys Island Lat. 41°20'59.18"N Lon. 70°45'54.61"W c.) South side of Edys Island Lat. 41°20'47.21"N Lon. 70°45'54.25"W	Deflection Deflect oil away from the entrance to Menemsha Pond to free-oil recovery. Deflect oil away from the sensitive marsh system located East of Edys Island.	For a.) Deploy 3 sections of boom in 200ft segments from the shoreline on Menemsha Bight. This tactic requires larger boom (36") that is not available in the State Response Trailers. This would deflect oil away from the entrance to Menemsha Pond. Depending on which direction the incoming oil is coming from, deploy boom on either side of the entrance (both options are shown in the diagram). For b.) On a flooding tide, deploy 3 sections of boom in 300ft segments from the shore by Edys Island Way. For c.) On an ebbing tide, deploy 3 sections of boom in 300ft segments from the shore on the South side of Edys Island. Deploy anchors every 200ft and tend throughout the tide.
CI-24-02 	a.) Entrance to harbor Lat. 41°21'13.41"N Lon. 70°46'3.29"W b.) Entrance to West Basin Lat. 41°21'5.38"N Lon. 70°46'2.15"W c.) Nashaquitsa Pond Lat. 41°19'50.66"N Lon. 70°46'8.54"W d.) Bridge on State Road Lat. 41°19'43.47"N Lon. 70°45'35.27"W	Exclusion Exclude oil from entering the inner harbor, West Basin and the pond systems located on the Southern part of Menemsha Pond. This tactic addresses spills originating from State Road and leaving the ponds.	For a.) Deploy 300ft of boom across the entrance to the inner harbor. For b.) Deploy 250ft of boom across the entrance to West Basin. For c.) Deploy 400ft of boom in a closed chevron formation at the entrance to Nashaquitsa Pond. For d.) Deploy 400ft of boom at the bridge on State Road between Nashaquitsa Pond and Stonewall Pond. Deploy anchors at midpoints if needed and tend throughout the tide.
CI-24-03 	Western shore in Menemsha Pond Lat. 41°20'43.98"N Lon. 70°46'9.06"W	Divert and Collect Divert incoming oil to shoreside recovery locations on the western shore inside Menemsha Pond.	Deploy 600ft of boom in a single segment in a Northeasterly direction from the western shore inside Menemsha Pond. Deploy anchors every 200ft and tend throughout the tide.
CI-24-04 	Lilly Pond Lat. 41°19'48.9"N Lon. 70°47'08.9"W	Culvert Blocking Exclude the flow of oil into or out of Lilly Pond into Menemsha Pond by blocking the culvert that passes under State Road.	At low tide place an inflatable culvert plug in the culvert. If the inflatable plug is not available, place plywood or similar sheeting material across the entrance of the culvert. Use plastic sheeting to ensure the seal. Stack adequate sandbags against the plywood sheeting to counter the out flow pressure from the intertidal area. Monitor the block to ensure blocking integrity.
CI-24-05 	Menemsha Pond Nearshore waters in the general area of: Lat. 41°21'30.0"N Lon. 70°46'21.4"W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Menemsha Pond depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the Menemsha Pond. Use aerial surveillance to locate incoming slicks. Ensure that responders have experience with on-water free-oil recovery.





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ID	Response Resources	Staging Area Site Access	Resources Protected	Special Considerations
CI-24-01 	Deployment Equipment 1200 ft. of 36" boom 900 ft. 16 to 18" boom 16 anchor systems 2 anchor stakes Vessels 2 skiffs Personnel/Shift 6 total (1 vessel operator + 1 responders per vessel, 2 shoreside responder per collection site) Tending Vessels 1 skiff Personnel/Shift 3 total (1 vessel operator + 1 responders per vessel, 1 shoreside responders per collection site)	Menemsha Harbor has a boat ramp and parking lot. Access off North Road. There is also a boat ramp at the end of West Basin Road on the Western side of Menemsha Pond. Via marine waters for deploying and tending boom. Boat ramps may not be useable at low tide. Chart 13223-4	Fish-shellfish, finfish Birds-waterfowl concentration, Seabirds, shorebirds Marine mammals- seals Habitat- marsh, sheltered tidal flats, barrier beach Human Use-Commercial boat harbor, aquaculture, high-use recreational area Land management – NWR Threatened/Endangered species: Piping Plovers (April 1 – Aug 31)	Vessel master should have local knowledge. Use caution in sandy dunes during months when plovers are present. Nesting areas may include beaches, sandspits, foredunes, and washover areas in dunes. Consult with USFWS as early as possible regarding shoreline collection areas and access plans. Entire site surveyed: 11/28/07. Tested: 06/08/11.
CI-24-02 	Deployment Equipment 1350 ft. 16 to 18" boom 4 anchor systems 8 anchor stakes Vessels/Personnel/Shift Same as CI-24-01 Tending Vessels/Personnel/Shift Same as CI-24-01	Same as CI-24-01	Same as CI-24-01	Vessel master should have local knowledge.
CI-24-03 	Deployment Equipment 600 ft. 16 to 18" boom 8 small anchor systems 1 anchor stake Vessels/Personnel/Shift Same as CI-24-01 Tending Vessels/Personnel/Shift Same as CI-24-01	Same as CI-24-01	Same as CI-24-01	Vessel master should have local knowledge.
CI-24-04 	Deployment Transport 1 truck Equipment 1 Inflatable Culvert Block OR 1 sheet of plywood 50-100 sandbags 1 Polyethylene Sheeting Vessels/Personnel/Shift Same as CI-24-01 Tending Vessels/Personnel/Shift Same as CI-24-01	Same as CI-24-01	Same as CI-24-01	Use a full block if the water will not threaten the road and can be maintained with tidal flow. If the area requires continued draining use an underflow dam or adjustable weir to exclude incoming oil.
CI-24-05 	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Same as CI-24-01	Same as CI-24-01	Vessel master should have local knowledge. Use extreme caution, shoal waters with rocks & continually shifting sand bars. Currents and winds are locally variable and can create dangerous operating environments.





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Site Photographs and Contact Information



Menemsha Pond entrance looking southeast.



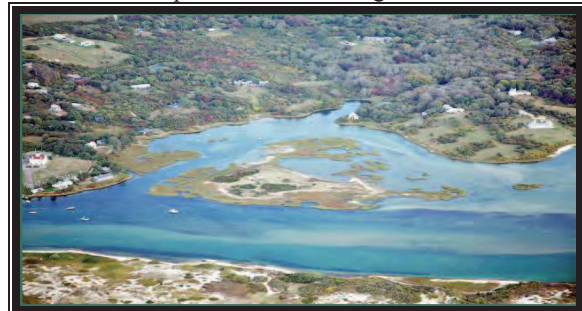
Nashaquitsa entrance looking southeast.



Stonewall Pond looking northwest.



Nashaquitsa entrance looking northwest.



Edy's Island in Menemsha Pond looking east.

Contact Information:

Aquinnah/Wampanoag (508) 645-9265
Aquinnah/Gay Head-Fire: (508) 645-2311
Aquinnah/Gay Head-Harbor-master: (508) 645 2307
Aquinnah Shellfish Warden: (508) 645-2300
Chilmark-Fire Chief: (508) 645-2550
Chilmark-Harbor-master: (508) 645-2100
Chilmark-Shellfish Dept: (508) 2100 ext.2145
Martha's Vineyard Comm. Ctr. 24-hr (508) 693-1212
USCG Menemsha Station: (508) 645-2661
USFWS: (413) 539-3194
Wampanoag Tribe Natural Res. Dept.: (508) 645-9265 ext.141



Menemsha Pond and surrounding area looking northwest.

Mutual Aid is available from other communities within the Buzzard's Bay GRP region that have state response trailers. More information can be found on the following MassDEP web site: <http://www.mass.gov/eea/agencies/massdep/cleanup/marine/#5>

Additional information regarding State Response Trailers, including locations and inventories can be found here: <http://www.mass.gov/eea/agencies/massdep/cleanup/marine/oil-spill-training-and-equipment-resources.html>

