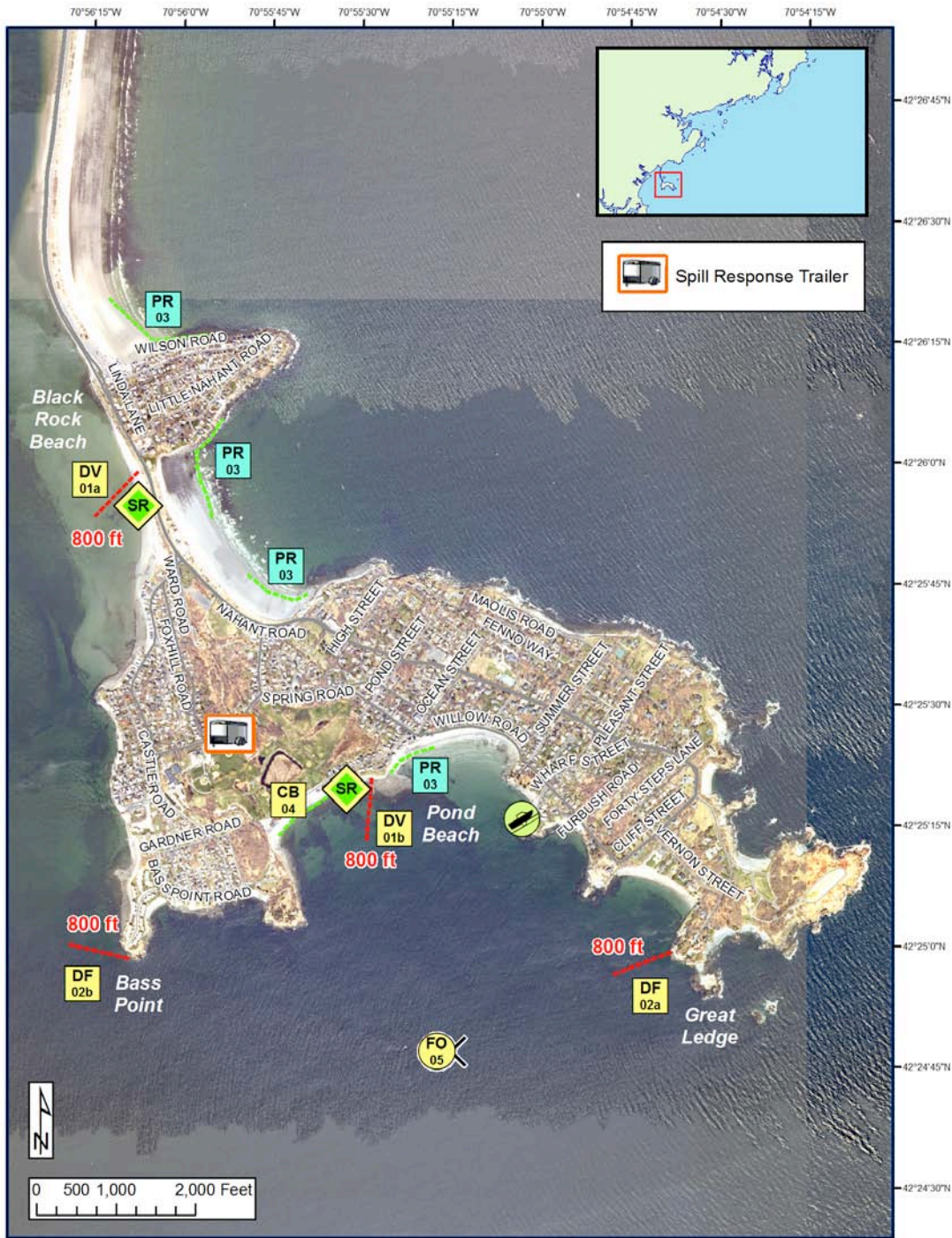




North Shore Geographic Response Plan

Nahant NS-32



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	Shoreside Recovery	Boat Ramp	Beach Berm Material
PR Passive Recovery	Free-oil Recovery	Snare or Sorbent Boom	






A total of 4 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.





North Shore Geographic Response Plan

Nahant NS-32






ID	Location and Description	Response Strategy	Implementation
NS-32-01 	Nahant (a)Black Rock Beach Lat. 42°25'54"N Lon. 70°56'15"W (b)Pond Beach Lat. 42°25'17"N Lon. 70°55'29"W	Divert and Collect - Shoreside Place and anchor sections of protected water boom at the proper angle to the current to divert the oil to the identified shoreside collection locations.	Deploy anchors and boom with skiffs. For (a) & (b) place 800 ft of 18” boom angled as shown in the diagram to divert incoming oil to the collection sites at Black Rock Beach and Pond Beach. Set anchors every 200 ft. Set up shoreside recovery and add passive recovery at the shoreline to minimize leakage and damage. Tend throughout the tide.
NS-32-02 	Nahant (a)Great Ledge Lat. 42°24'56"N Lon. 70°54'45"W (b)Bass Point Lat. 42°25'N Lon. 70°56'18"W	Deflection Place and anchor sections of protected water boom to deflect oil away from sensitive bird habitats and harbor area and towards free oil recovery or shoreside collection points.	Deploy anchors and boom with skiffs. For (a) & (b) on an incoming tide, place 800 ft of 18” boom angled as shown in the diagram to deflect oil away from the shoreline. Set landward end of boom as close as possible to rocky shoreline. As tides change, boom will need to be adjusted to ensure oil is not deflected back toward protected sites. Set anchors every 200 ft and adjust boom based on currents and tides. Tend throughout the tide.
NS-32-03 	Various Locations	Passive Recovery Use passive recovery techniques to collect oil along the shoreline and minimize impact.	Place and anchor snare or sorbent boom along the shoreline to collect oil. See diagram for suggested locations. Replace as necessary to maximize the recovery.
NS-32-04 	Nahant Pond Beach Lat. 42°25'17"N Lon. 70°55'43"W	Culvert Block Place culvert block to prevent oil from entering discharge pipe to Willow Street Pond.	Install culvert block at low tide. If 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. Monitor the block to ensure blocking integrity.
NS-32-05 	Nahant Bay	Free-Oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Nahant Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of the port area. Use aerial surveillance to locate incoming slicks. Ensure that responders have experience with on-water free-oil recovery.





North Shore Geographic Response Plan

Nahant NS-32

ID	Response Resources	Staging Area Site Access	Resources Protected	Special Considerations
NS-32-01 	Deployment Equipment (Both sites) 1600 ft 18" boom 8 anchor systems 2 anchor stakes 2 shoreside recovery systems 1000 ft snare or sorbent boom Vessels 2 skiffs Personnel/Shift 8 total (1 vessel operator + 1 responder per vessel, 4 shoreside responders) Tending Vessels 1 skiff Personnel/Shift 4 total (1 vessel operator + 1 responder per vessel, 2 shoreside responders)	Staging Area: Nahant Fire Department, 67 Flash Rd; Nahant Rd to Spring Rd to Flash Rd. (a) Nahant Rd to Little Nahant Rd. (b) Nahant Rd to Ocean St to Willow Rd. Chart 13275-1	Fish – Finfish Birds – Seabirds, shorebirds Invertebrates – Lobster, Crab, Shrimp Mammals – Seals Habitat – Beach, Rocky Shore, Tidal Flats Human Use – Boat Ramp, Beach, Port/Harbor	Tide range 7 – 11 ft. Vessel master should have local knowledge. Rocky shoreline at island bluffs. Mudflats exposed at low tide and Short Beach and Long Beach. Migratory bird habitat. Extensive eel grass beds. Northeastern Marine Laboratory with water intake. Entire site surveyed: 06/02/09. Tested: not yet.
NS-32-02 	Deployment Equipment (Both sites) 1600 ft 18" boom 8 anchor systems 2 anchor stakes Vessels 2 skiffs Personnel/Shift Same as DV-01 Tending Vessels 1 skiff Personnel/Shift Same as DV-01	Site Access: (a) Nahant Rd to Swallow Cave Rd. (b) Nahant Rd to Castle Rd to Gardner Rd to Bass Point Rd to Sea Breeze Ln.	Same as NS-32-01.	Deflection strategies may need to be adjusted at each change of tide.
NS-32-03 	Deployment Equipment 2000 ft. of snare or sorbent boom 20 anchor stakes Personnel/Shift 8 shoreside responders	Site Access: Via shore roads and marine waters.	Same as NS-32-01.	Use snare boom for persistent oils and sorbent boom for non-persistent oils.
NS-32-04 	Deployment Transport 1 Truck Equipment 1 inflatable culvert block or 1 sheet of plywood 50-100 sandbags 1 polyethylene sheet Personnel/Shift 4 shoreside responders	Site Access: Same as NS-32-01(b).	Same as NS-32-01.	Coordinate with DPW. Culvert block should be tested and stored at appropriate location. Tested: not yet.
NS-32-05 	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Site Access: Vessel Platform Via marine waters. Chart 13275-1	Same as NS-32-01.	Vessel master should have local knowledge. Free-oil recovery should only be attempted if conditions permit and by experienced responders.

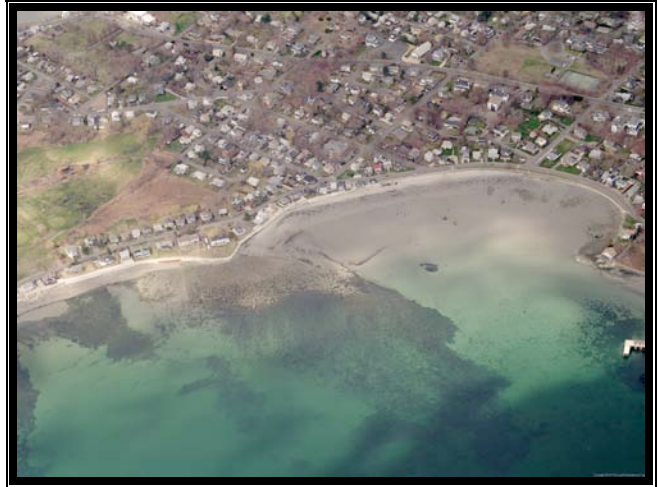




Site Photographs and Contact Information



Harbormaster's dock at mid-tide on 02 June 2009. View looks east.



Nahant Harbor. 14 April 2009.



Little Nahant at mid-tide on 02 June 2009. View looks west.



Little Nahant. 14 April 2009.



Short Beach at mid-tide on 02 June 2009. View looks south.

Contact Information:

Nahant Fire Department: 781-581-1234
Nahant Harbormaster: 781-581-0626
Nahant DPW: 781-581-0026
Nahant SWIM: 781-581-0075
U.S.C.G. Station Gloucester: 978-283-0705
Mass Division of Marine Fisheries: 617-626-1520
Environmental Police: 800-632-8075

