

Map & Photo Legend



Gravina Island viewed from the north.

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|--|--------------------------|--|-------------------|--|----------------------|
| | Free-oil Recovery | | Exclusion Booming | | Protected-water Boom |
| | Deflection Booming, Live | | | | Tidal-seal Boom |

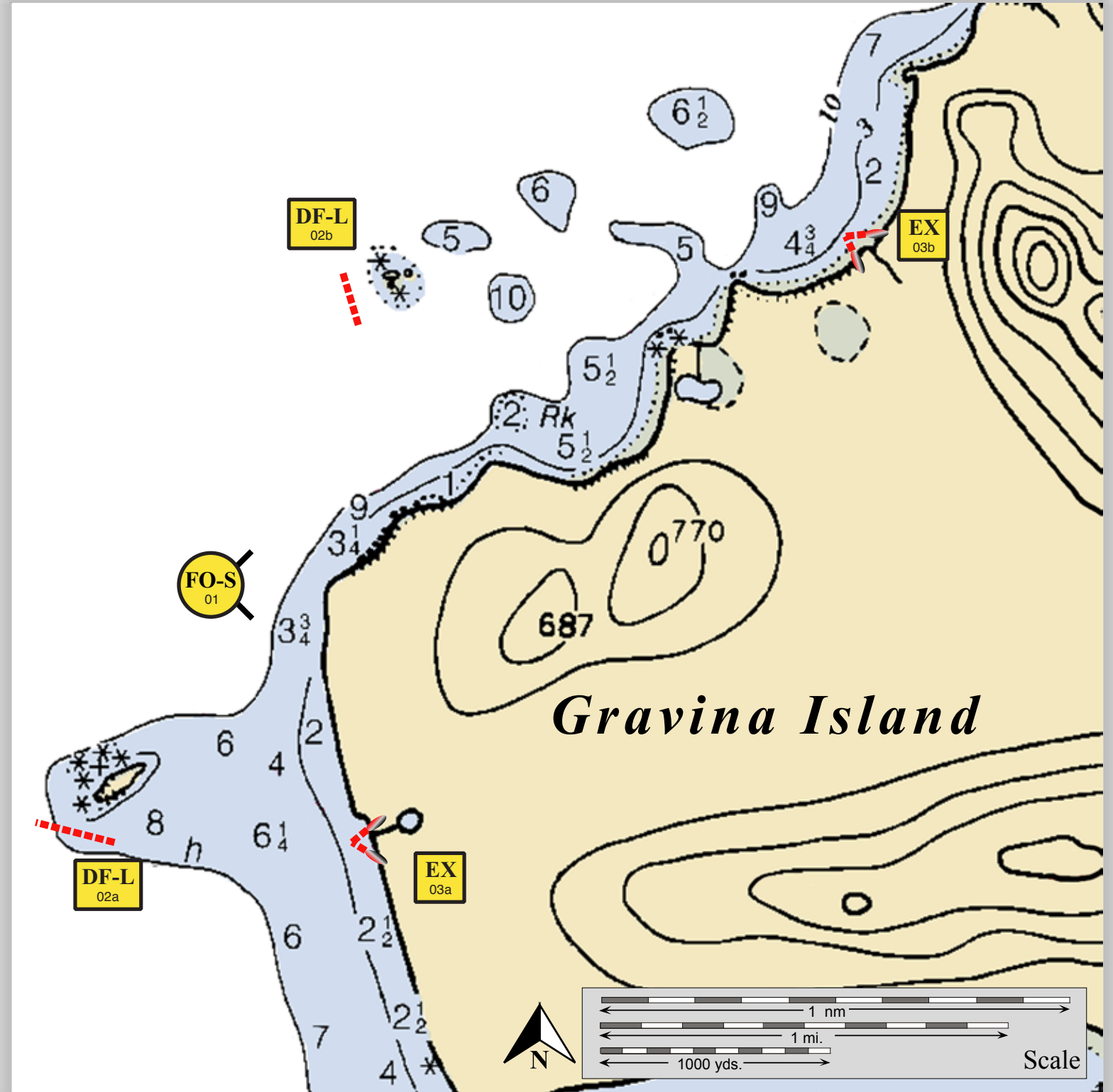


EX-03b viewed from the east.




Geographic Response Strategies for Northeast Prince William Sound Subarea

Gravina Island, PWS-NE36

Center of map at 60° 39.4' N Lat., 146° 16.8' W Lon.



This is not intended for navigational use.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
NE-36-01 	Gravina Island Nearshore waters in the general area of: Lat. 60° 39.4 N Lon. 146°16.8 W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Gravina Island depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of Gravina Island. Use aerial surveillance to locate incoming slicks.	Deploy multiple free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.	Tatitlek/Valdez Harbor	Via marine waters Chart 16708-1	Same as NE-36-02	Vessel master should have local knowledge. Use extreme caution, shoal waters with numerous reefs and rocks.
NE-36-02 	Gravina Island and Gravina Rocks a. Lat. 60° 38.27 N Lon. 146°17.91 W b. Lat. 60° 39.74 N Lon. 146°16.14 W	Deflection-Live Using fishing vessels to hold the boom in place, deflect oil from Gravina Island and Gravina Rocks and back into the channel for free-oil recovery.	Place boom and hold in place with fishing vessel(Class 3/4). Position booms at a proper angle to deflect oil from Gravina Island and the nearby Gravina Rocks. Tend throughout the tide. <u>Boom Lengths:</u> a. 1000 ft. b. 1000 ft.	Deployment Equipment 2000 ft. protected-water boom Vessels 4 ea. class 3/4 1 ea. class 6 Personnel/Shift 14 ea. vessel crew Tending Vessels 4 ea. class 3/4 1 ea. class 6 Personnel/Shift 14 ea. vessel crew	Vessel platform	Via marine waters 16708-1	Fish- intertidal spawning- salmon (May-Sept.), herring (April-May) Birds-waterfowl concentration, seabird nesting Marine mammals- seals, otters Habitat- sheltered tidal flats, sheltered rocky shoreline, gravel beaches	Vessel master should have local knowledge. This strategy can only be used in calm and moderate conditions due to the exposure and the numerous navigational hazards. Tested: not yet
NE-36-03 	Gravina Point Streams a. Lat. 60° 38.31 N Lon. 146°15.95 W b. Lat. 60° 40.00 N Lon. 146°13.05 W	Exclusion Exclude oil from impacting the two streams near Gravina Island.	Deploy anchors and boom with skiffs (class 6). Array (a) should be considered if sea conditions are calm. For both sites place 50 ft. of tidal-seal boom on the shoreline. Complete each array with 200 ft. of protected-water boom. Tend throughout the tide.	Deployment Equipment 400 ft. protected-water boom 200 ft. tidal-seal boom 2 ea. anchor systems 8 ea. anchor stakes Vessels/Personnel/Shift Same as NE-36-02 Tending Vessels/Personnel/Shift Same as NE-36-02	Vessel platform	Via marine waters Chart 16708-1	Same as NE-36-02	Vessel master should have local knowledge. Site surveyed: 9/03/10 Title 41 permitting required from ADNR. Tested: not yet

NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the PWS Sub-Area Contingency Plan: http://dec.alaska.gov/spar/perp/plans/scp_pws.htm.