

# Map & Photo Legend



Entrance to Esther Passage viewed from southwest.

Free-oil Containment and Recovery, Shallow Water	Passive Recovery	Snare or Sorbent Boom
Exclusion Booming	Protected-water Boom	Bears in Area, Guards Recommended

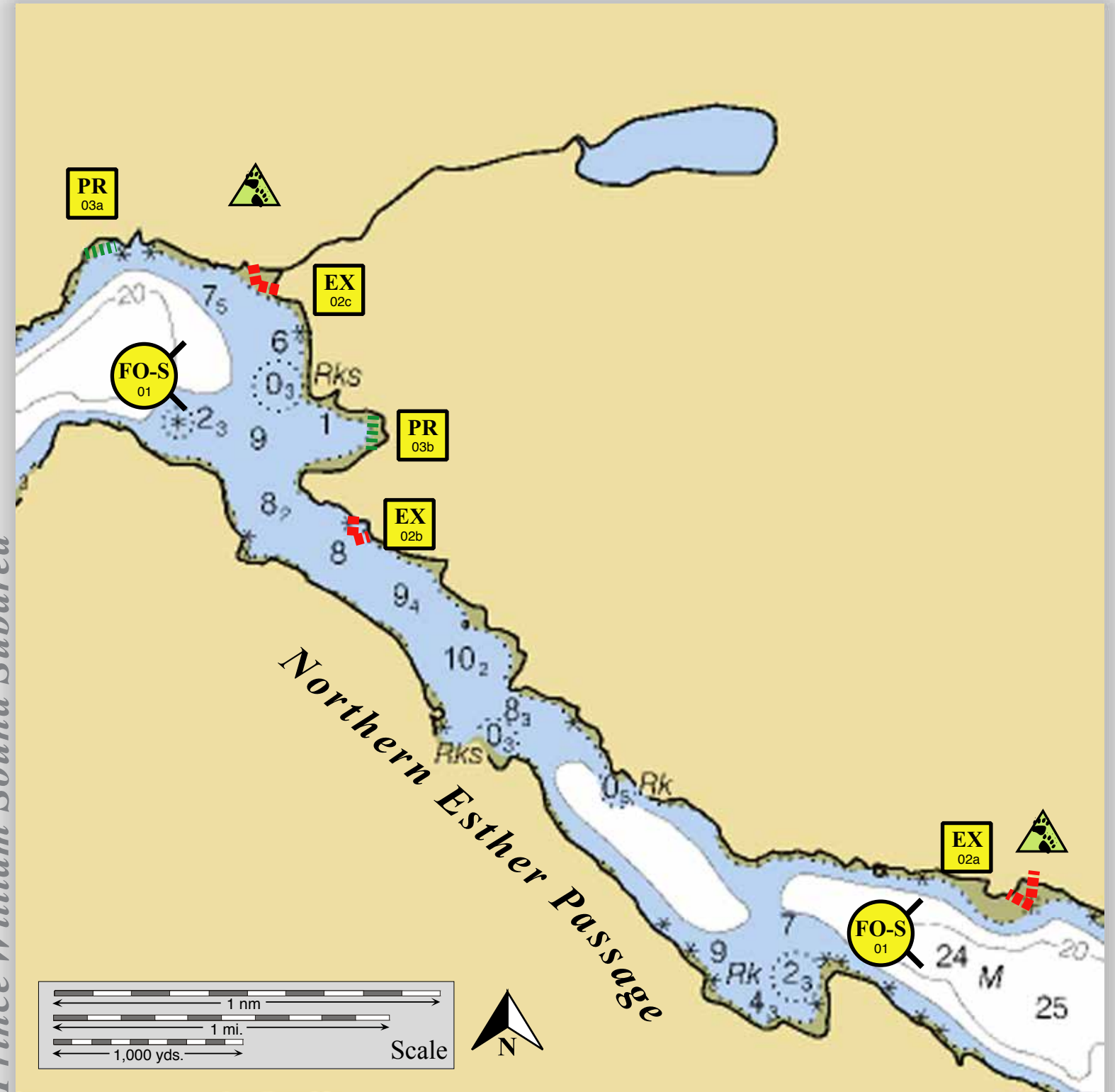


Northern Esther Passage viewed from the northwest.

## Northern Esther Passage, PWS-NW-19




Center of map at 60° 56.05' N Lat., 148° 03.12' W Lon.

### Geographic Response Strategies for Prince William Sound Subarea



This is not intended for navigational use.

Soundings in fathoms

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
PWS NW-19-01 	<b>Northern Esther Passage</b> Nearshore waters in the general area of:  Lat. 60°56.05'N Lon. 148°03.12'W	<b>Free-oil Recovery</b> Maximize free-oil recovery in the offshore & nearshore environment of Northern Esther Passage depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of Northern Esther Passage.  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.	Whittier	Via marine waters  Chart 16711-1	Same as NW-19-02	Vessel master should have local knowledge.  Use extreme caution, shoal waters with numerous reefs and rocks.
PWS NW-19-02 	<b>Northern Esther Passage</b> a. Lat. 60°54.83'N Lon. 147°58.87'W  b. Lat. 60°55.57'N Lon. 148°01.64'W  c. Lat. 60°56.08'N Lon. 148°02.01'W	<b>Exclusion</b> Exclude oil from impacting the salmon streams and intertidal area in Northern Esther Passage.	Deploy anchors and boom with skiffs (class 6) at high tide.  For (a)(b)&(c) place protected-water boom across the intertidal area and stream mouths in an apex formation. Array (a) is exposed to SE winds and seas and will have to be reduced if weather dictates.  Tend throughout the tide.  <u>Boom Lengths:</u> a. 500 ft. b. 200 ft. c. 300 ft.	<b>Deployment</b> <b>Equipment</b> 1000 ft. protected-water boom 5 ea. anchor systems 12 ea. anchor stakes <b>Vessels</b> 1 ea. class 3 1 ea. class 6 <b>Personnel/Shift</b> 5 ea. vessel crew/general techs  <b>Tending</b> <b>Vessels</b> 1 ea. class 3 1 ea. class 6 <b>Personnel/Shift</b> 3 ea. vessel crew/general techs	Vessel platform	Via marine waters  Chart 16711-1	Fish- intertidal spawning- salmon (May-Sept.)  Birds-waterfowl concentration  Marine mammals- otters, seals  Habitat- sheltered rocky shoreline	Vessel master should have local knowledge.  Site surveyed 6/06/09 by PWS Tactics Committee  Title 16 Fish Habitat Permit required from ADF&G.  A population of bears is present during salmon runs. A bear guard is required.  Tested: not yet
PWS NW-19-03 	<b>Northern Esther Passage</b> a. Lat. 60°56.15'N Lon. 148°02.58'W  b. Lat. 60°55.74'N Lon. 148°01.56'W	<b>Passive Recovery</b> Place passive recovery across the mouth of the designated salmon streams and intertidal areas.	Approach the identified streams and intertidal areas on rising tide.  Place and anchor snare or sorbent boom across the mouths of the designated salmon streams and intertidal areas.  Replace as necessary to maximize the recovery.  <u>Boom Lengths:</u> a. 300 ft. b. 100 ft.	<b>Deployment</b> <b>Equipment</b> 400 ft. snare or sorbent boom 2 ea. anchor systems 8 ea. anchor stakes <b>Vessels/Personnel/Shift</b> Same as NW-19-02 <b>Tending</b> <b>Vessels/Personnel/Shift</b> Same as NW-19-02	Vessel platform	Marine  Chart 16711-1	Same as NW-19-02	Use snare boom for persistent oils and sorbent boom for non-persistent oils.  Title 16 Fish Habitat Permit required from ADF&G.