Simpson Bay, NE-39

Geographic Response Strategies for

Prince William Sound Subarea, Northeast Zone

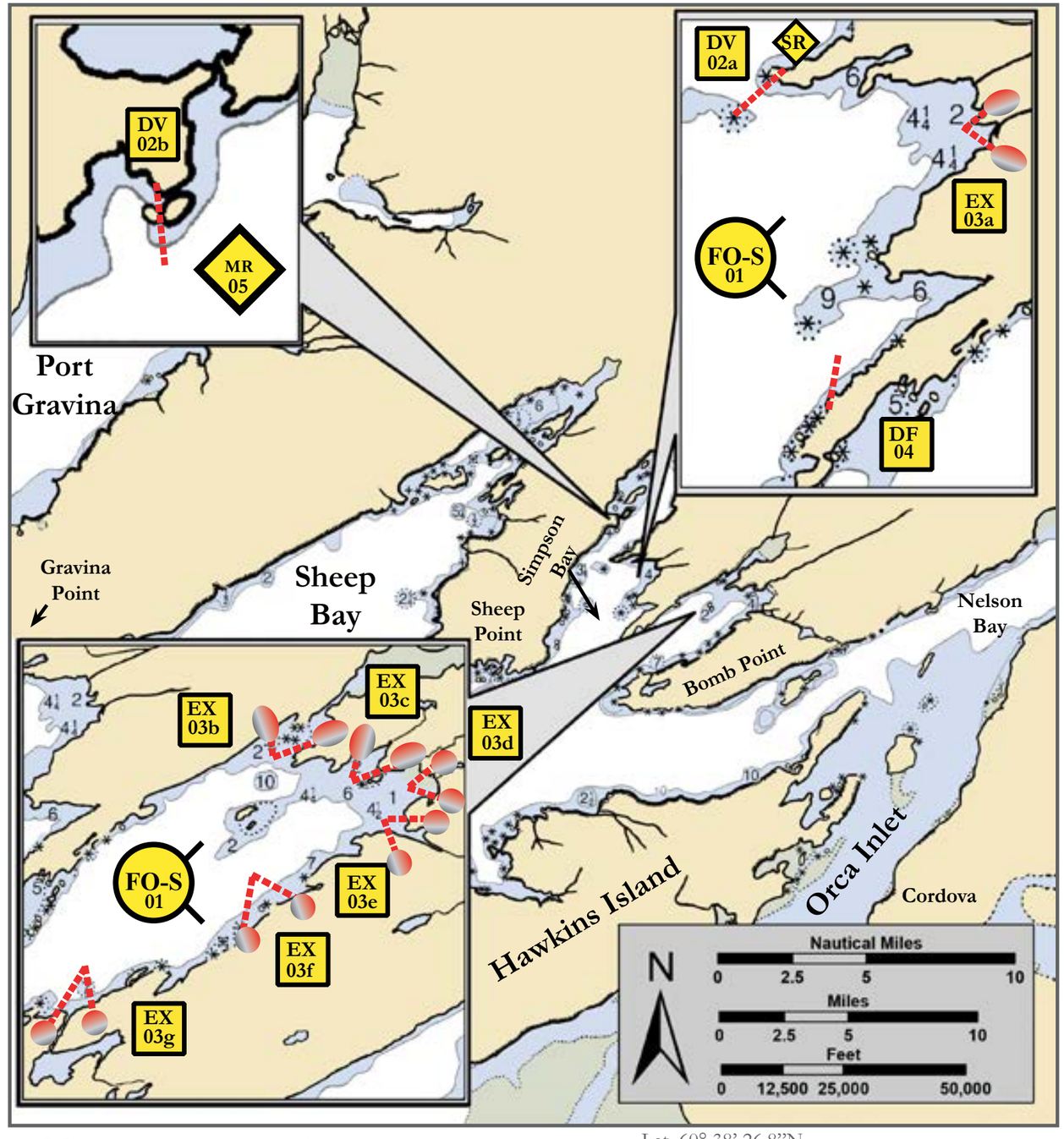
Location of NE-39

Map & *Photo*

EX-03b, View North

Legend

EX	Exclusion Booming	FO-S	Free-Oil Recovery, Shallow Water		
DF	Deflection Booming	SR	Shoreside Recovery	------	Protected-Water Boom
DV	Diversion Booming		Shore-Seal Boom		



Map is not intended for navigational use.

Lat. 60° 38' 26.8"N
Lon. 145° 53' 24.5" W

Depths in Fathoms

Updated by ADEC 12 April 17

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
NE-39-01  	**Simpson Bay** Nearshore waters in the general area of: Lat. 60º 37.46' N Lon. 145º 54.9' W	**Free-oil Recovery** Maximize free-oil recovery in the offshore & nearshore environment of Simpson Bay depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of Simpson Bay. 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.	Cordova Harbor	Via marine waters Chart 16709-1	**Same as NE-39-02**	Vessel master should have local knowledge. Use extreme caution, shoal waters with numerous reefs and rocks.
NE-39-02 **DV**	**Simpson Bay** a. Lat. 60º 39.13 N Lon. 145º 54.21 W b. Lat. 60º 39.64 N Lon. 145º 53.99 W	**Divert and Collect** Divert oil to shoreside collection locations on the shoreline of Simpson Bay.	Deploy anchors and boom with skiffs (class 6). (a) deploy 600 ft. section of protected-water boom in a non-cascading diversion configuration. (b) deploy 900 ft. of protected water boom. Water depths are >250 ft. and too deep for anchoring. A tending vessel is required to maintain the boom in position. Set up collection site and tend throughout the tide.	**Deployment Equipment** 1800 ft. protected-water boom 18 ea. anchor systems 4 ea. Anchor stakes 1 ea. Shoreside collection units **Vessels** 1 ea. Class 3/4 1 ea. Class 6 **Personnel/Shift** 5 ea. Vessel crew 2 ea. Response techs **Tending Vessels** 1 ea. Class 3/4 1 ea. Class 6 **Personnel/Shift** 3 ea. Vessel crew 2 ea. Response techs	Vessel platform	Via marine waters. Chart 16709-1	**Fish**- intertidal spawning- salmon (May-Sept.) **Birds**-waterfowl concentration, **Marine mammals**- otters **Human Use**- high recreational use, commercial fishing, mariculture **Habitat**- marsh, sheltered tidal flats	Vessel master should have local knowledge. Take measures as outlined in the "Spill Tactics for Alaska Responders" or STAR Manual to protect the shoreline. **Tested**: DV02a, DV02b and SR02b (replaced with MR05-13April17) deployed 09 Oct 2014 SERVS deployment. *Due to water depths ranging from 100 to 200 feet, A depth survey should be performed prior to deploying tactics requiring anchoring boom. Consider MR as alternative tactic. Near-shore response kits must include standardized lengths of line to build adequate anchor lines.
NE-39-03 **EX**	**Simpson Bay** a. Lat. 60º 38.93 N Lon. 145º 52.45 W b. Lat. 60º 38.93 N Lon. 145º 49.95 W c. Lat. 60º 38.73 N Lon. 145º 49.27 W d. Lat. 60º 38.58 N Lon. 145º 48.67 W e. Lat. 60º 38.24 N Lon. 145º 49.07 W f. Lat. 60º 37.75 N Lon. 145º 50.61 W g. Lat. 60º 37.26 N Lon. 145º 52.78 W	**Exclusion** Exclude oil from impacting the identified stream and intertidal area in Simpson Bay.	Deploy anchors and boom with skiffs (class 6) at high tide. For (a), (b), (c), (d), (e), and (f) place 50 ft. sections of tidal-seal boom on each shore of all the sites. Complete the arrays in a chevron formation with the amount of protected-water boom specified below. The steep and thick brushy shoreline at EX03(g) requires omitting the shore-seal boom and replacing it with 100 ft. of protected-water boom. Tend throughout the tide. **<u>Boom Lengths:</u>** a. 200 ft. b. 900 ft. c. 300 ft. d. 300 ft. e. 300 ft. f. 200 ft. g. 400 ft.	**Deployment Equipment** 2500 ft. protected-water boom 700 ft. tidal-seal boom 13 ea. Anchor systems 28 ea. Anchor stakes **Vessels/Personnel/Shift** Same as NE-39-02 **Tending Vessels/Personnel/Shift** Same as NE-39-02 *15 people needed for 2014 deployment, all responders were required to deploy the equipment. If sites are to be maintained on a 24-hour cycle, the number of personnel required would need to be increased accordingly.	Vessel platform	Via marine waters Chart 16709-1	**Same as NE-39-02**	Vessel master should have local knowledge. Title 41 permitting required from ADNR. **Tested**: EX03g deployed 09 Oct 2014 SERVS deployment. **Surveyed**: EX03b, EX03c, EX03d surveyed 09 Oct 2014 SERVS deployment. **Not Surveyed**: EX03a, EX03e, EX03f as of 2014 SERVS deployment
NE-39-04 **DF**	**Simpson Bay** Lat. 60º 38.10 N Lon. 145º 53.46 W	**Deflection** Deflect oil coming towards the mariculture site in Simpson Bay out to free-oil recovery. If natural deflection is sufficient for Free-oil Recovery, deployment is not necessary.	Deploy boom and anchor system with skiffs (class 6). Place three (3) 300 ft. sections of protected-water boom in a cascaded fashion and at a proper angle to deflect oil. Tend throughout the tide.	**Deployment Equipment** 900 ft. protected-water boom 9 ea. Medium anchor systems 4 ea. Anchor stakes **Vessels/Personnel/Shift** Same as NE-39-02 **Tending Vessels/Personnel/Shift** Same as NE-39-02	Vessel platform	Via marine waters Chart 16709-1	**Same as NE-39-02**	Vessel master should have local knowledge. Site Surveyed: 09/04/10 Tested: No

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NE-39-05  	**Simpson Bay** a. Lat. 60º 39.64 N Lon. 145º 53.99 W	**Marine Recovery** Mobilize and deploy equipment to recover and store the oil from the designated recovery site.	Deploy boom, portable skimming system, and portable oil storage devices with class 3/4 vessel.	**Deployment Equipment** 1 ea. Protected water rated skimming system 1 ea. Oil storage system **Vessels** 1 ea. Class 3/4 **Personnel/Shift** 2 Vessel crew 2 Response techs	Vessel platform	Via marine waters Chart 16709-1	**Same as NE-39-02**	Vessel master should have local knowledge. Tested: Due to 100 to 200ft anchor depths, tactic changed from Diversion 03b to Marine Recovery 05 based on recommendations from 09 Oct 2014 SERVS deployment.