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DRAFT This tactic map is a working draft being used to develop a Geographic Response Strategy at this location. The tactics represented here have not been approved by the Subarea Committee and should not be considered final. If you have questions or comments please contact us by email at contact@nukaresearch.com.

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## NW Arctic Subarea Geographic Response Strategies

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
N-05-01	<b>Ipiavik Lagoon</b> Nearshore waters in the general area of: Lat. 67° 35.22'N Lon. 164°08.37'W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Ipiavik Lagoon depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of Ipiavik Lagoon. 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.	Delong Mnt. Transportation System Dock. (Red Dog Mine Dock)	Via marine waters Chart 16005	Same as N-05-02	Vessel master should have local knowledge. Use extreme caution, shoal waters with numerous reefs and rocks.
N-05-02	Ipiavik Lagoon Entrance Lat. 67° 35.94'N Lon. 164°06.05'W	<b>Divert and Collect</b> Divert oil to shore-side collection points determined by spill source and trajectory. The entrance to the lagoon may change seasonally and large storms may open the lagoon in other areas on the barrier beach. Aerial survey recommended prior to deployment.	Deploy anchors and boom with skiffs (class 6). Place protected-water boom at proper angle to divert incoming oil to the collection site. Set-up collection site using shore- side collection units or if oil volume is minimal, use sorbent boom or snare line to provide collection of oil. Tend throughout the tide.	Deployment         Equipment         700 ft. protected-water boom         7 ea. small anchor systems         8 ea. anchor stakes         1 ea. shore-side collection units         Vessels         1 ea. class 3         1 ea. class 6         1 ea. helicopter (if needed for N-05-03)         Personnel/Shift         5 ea. vessel crew         2 ea. response techs         Tending         Vessels         1 ea. class 3         1 ea. class 6         Personnel/Shift         3 ea. vessel crew         1 ea. class 6         Personnel/Shift         3 ea. vessel crew         1 ea. class 6         Personnel/Shift         3 ea. vessel crew         1 ea. class 6         Personnel/Shift         3 ea. vessel crew         1 ea. response tech	Vessel platform	Via marine waters Chart 16005	Fish- herring spawning, dolly varden, char, white fish Birds- shorebird concentration, waterfowl concentration Marine mammals- polar bears Habitat- Low lying tundra, marsh,	Vessel master should have local knowledge. REPORT any cultural resources found during operations to the FOSC Historic Properties Specialist. Take appropriate measures as outlined in the STAR Manual to protect the beach at the collection site. Site surveyed: not surveyed Tested: not yet
N-05-04	<ul> <li>Ipiavik Lagoon</li> <li>a. Lat. 67° 36.45 N Lon. 164°06.60 W</li> <li>b. Lat. 67° 37.95 N Lon. 164°08.23 W</li> <li>c. Lat. 67° 37.95 N Lon. 164°09.09 W</li> <li>d. Lat. 67° 38.26 N Lon. 164°09.50 W</li> <li>e. Lat. 67° 38.32 N Lon. 164°10.59 W</li> </ul>	Passive RecoveryThe lagoon in closed to directocean access. If stormsthreaten to breach the barrierbeach, deploy passiverecovery across the channelsof the streams in IpiavikLagoon.The lagoon may not beaccessible with skiffs.Helicopter deploy when notaccessible.	<ul> <li>Place and anchor snare line or sorbent boom across the channels of streams in Ipiavik Lagoon.</li> <li>Replace as necessary to maximize the recovery.</li> <li><u>Boom Lengths:</u> <ul> <li>a. 100 ft.</li> <li>b. 350 ft.</li> <li>c. 450 ft.</li> <li>d. 400 ft.</li> <li>e. 250 ft.</li> </ul> </li> </ul>	Deployment Equipment 1550 ft. snare line or sorbent boom 8 ea. anchor systems 20 ea. anchor stakes Vessels/Personnel/Shift Same as N-04-02 Tending Vessels/Personnel/Shift Same as N-04-02	Vessel platform	Via marine waters Chart 16005	Same as N-05-02	Vessel master should have local knowledge. A population of bears may be present in the area. A bear guard is required during shore operations. Threatened or endangered species/habitat is present or possible in the area. Consult with NOAA and DOI prior to deployment.

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