

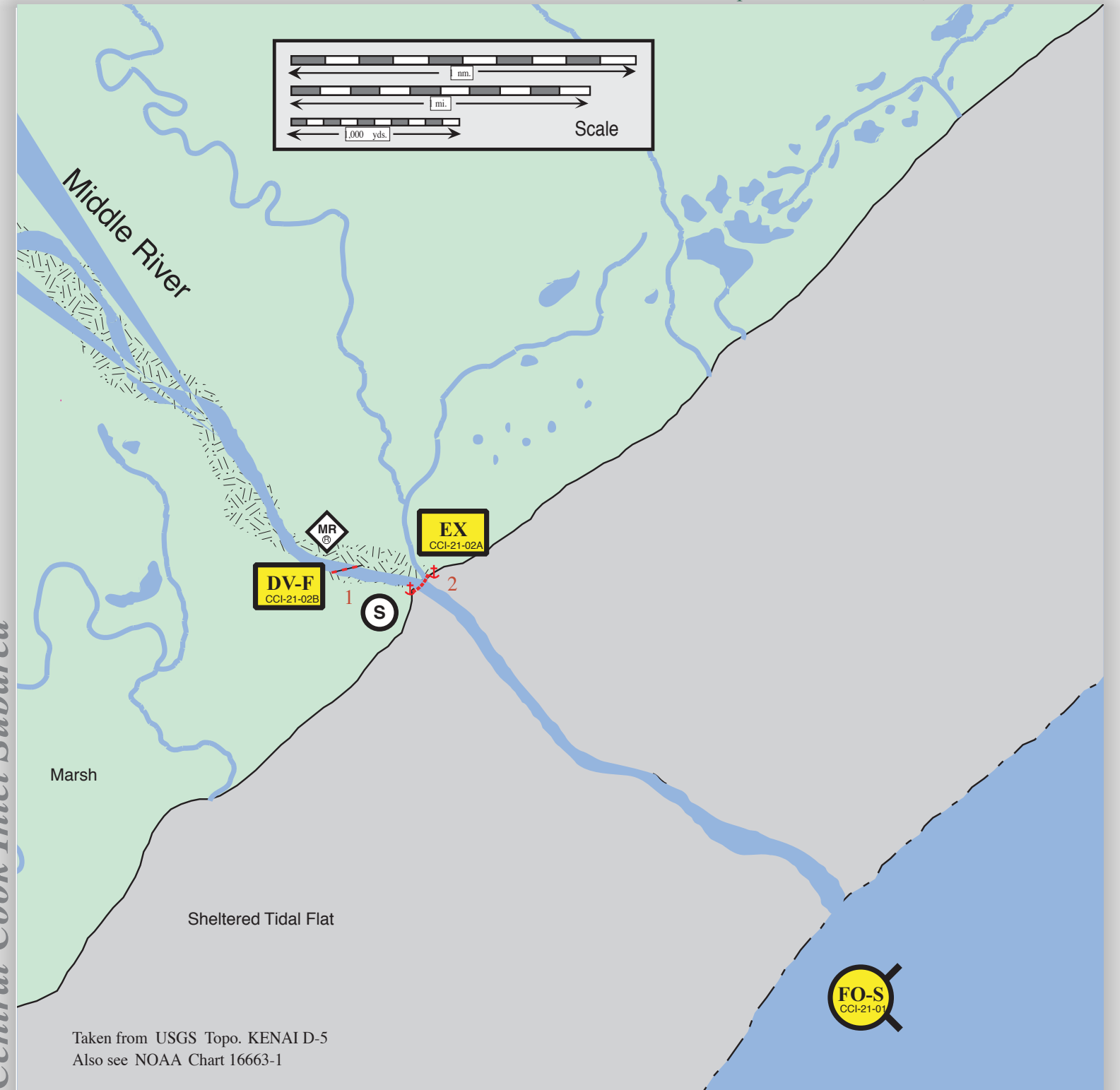


Middle River, CCI-21-01 as viewed from the Southeast.

# Middle River, CCI-21

Center of map at 60° 57.1' N Lat., 151° 32.9' W Lon.

## Geographic Response Strategies for Central Cook Inlet Subarea










Taken from USGS Topo. KENAI D-5  
Also see NOAA Chart 16663-1

This map is not intended to be used for navigation.

Soundings in fathoms

## Map & Photo Legend

-  Free-oil Containment and Recovery, Shallow Water – Located up current and up-wind to maximize recovery.
-  Diversion Booming
-  Exclusion Booming
-  Protected-water Boom
-  Calm-water Boom
-  Marine Recovery
-  Staging Area

### Implementation Notes:

- 1 - Staging restricted to localized elevated clearings.
- 2 - Exclusion boom placement should be configured to utilize river's freshwater outflow to maintain shape.

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
CCI-21-01	<p><b>Middle River</b></p> <p>Nearshore waters in the general area of:            Lat. 60°57.1 N            Lon. 151° 32.9W</p>	<p>* Maximize on-water recovery in the offshore &amp; nearshore environment / outside the mudflats.</p>	<p>Deploy nearshore strike teams upwind and up current of the river entrance. Use aerial surveillance to locate incoming oil.</p>	<p>Multiple nearshore free-oil recovery strike teams as required to maximize interception of oil before it impacts sensitive areas.</p>	<ul style="list-style-type: none"> <li>• Kenai Harbor offshore support vessel, or Shirleyville</li> <li>• Contact oil production platform owners to evaluate the possibility of using the platforms for staging.</li> </ul>	<p>Via marine waters            See NOAA Chart 16663-1.</p>	<p>Same as CCI-21-02.</p>	<ul style="list-style-type: none"> <li>• Emphasis on offshore and nearshore efforts to keep product off of tidal areas since it would be virtually impossible to protect exposed tidal flats and habitat outside of the river entrance</li> <li>• Shoal waters and rocks. Vessel masters should have local knowledge.</li> </ul>
CCI-21-02	<p><b>Middle River</b></p> <p>Located approximately 14 mi. north of West Forelands peninsula on west side of Cook Inlet. River entrance has a very defined channel. Features include marsh habitat near the river entrance, mixed sand and gravel beaches and mudflats that extend outward to the inlet up to one mi. at low water.</p> <p>Lat. 60° 58.03 N            Lon. 151° 35.77 W</p> <p>River Channel</p> <ul style="list-style-type: none"> <li>• Average depth of 6 ft. at mouth of river at high water with tides greater than 20 ft.</li> <li>• Not navigable at low tide.</li> <li>• Moderate currents (&lt;1 knot).</li> <li>• Narrow and winding.</li> <li>• Tidally influenced to about 2 mi. upriver.</li> <li>• River width approximately 250-300 ft.</li> <li>• Trading Bay State Game Refuge.</li> </ul> <p>Docks</p> <ul style="list-style-type: none"> <li>• None</li> </ul>	<p>* For tides less than 20 ft., 02A; exclude spilled product from entering river near grass banks above tidal flats, approximate position: 60° 58.06 N, 151° 35.8 W.</p> <p>* Trained crews should haze birds out of river mouth and adjacent marsh areas, once a hazing permit is issued.</p> <p>* At tide levels greater than 20 ft., establish a diversion boom location and marine collection unit at the nearest suitable location that provides safe personnel access up the river banks. One such location is in approximate position: 60° 58.26 N, 151° 36.7 W.</p> <p><b>Seasonal Restriction</b>            River iced-in/not navigable from approximately November to April.</p>	<p>For tides less than 20 ft., place 400 ft. of exclusion boom across river above tidal flats.</p> <p>02B – Place 400 ft. of diversion boom.</p> <p><b>Seasonal Restriction</b>            Summer response only - no winter access except for helicopter airlift. River and shoreline are ice-covered from approximately November - April.</p>	<p><b>02A – Equipment</b>            2 ea. 200 ft. river boom units            6 ea. 40 lb. anchor systems            1 ea. wildlife hazing kit            800 ft. line</p> <p><b>02B – Equipment</b>            2 ea. 200 ft. river boom units            1 marine collection unit – protected water skimmer            1 storage unit            6 ea. 40 lb. anchor systems            800 ft. line</p> <p><b>Support</b>            2 ea. Class #6 vessel            1 ea. shelter.            10 ea. fence posts</p> <p><b>Personnel/Shift</b>            6 ea. deploy &amp; set-up            3 ea. tend &amp; maintain</p>	<ul style="list-style-type: none"> <li>• Equipment and materials can be mobilized by either small craft or helicopter. Staging is limited to localized elevated clearings near deployment site.</li> <li>• Services - none.</li> <li>• Security - none.</li> <li>• Support - shelter</li> </ul>	<p>FOSC Historic Properties Title 16 permit may be required to work inside river. Contact Environmental Unit of the Unified Command for permit.</p> <p>REPORT any cultural resources found during operations to the FOSC Historic Properties Specialist.</p> <p>Site access is restricted to small shallow draft vessels and helicopter.</p> <p><b>Seasonal Restriction</b>            River iced-in/not navigable from approximately November - April.</p>	<ul style="list-style-type: none"> <li>• Tidal marshes (all year)</li> <li>• Salmon migration and spawning (May - October)</li> <li>• Waterfowl and shore bird concentrations (all year)</li> <li>• Fishing (July - September)</li> </ul>	<ul style="list-style-type: none"> <li>• Brown bears present in summer months</li> <li>• Very difficult and unsafe to protect exposed tidal flats outside river mouth.</li> <li>• Working on banks of the river should be no problem. Take care not to work or walk on oiled shoreline, to avoid driving oil into the soils.</li> <li>• Access above intertidal area will have to be resolved with landowners before setting anchors or selecting staging areas</li> <li>• Potential personnel/best responders may be obtained from local area.</li> </ul>