

# COOK INLET SUBAREA CONTINGENCY PLAN

## GEOGRAPHIC RESPONSE STRATEGIES SECTION

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Online, see <http://www.dec.state.ak.us/spar/perp/grs/ci/home.htm> for the following GRS.  
On the Cook Inlet SCP CD, refer to the folder “Cook Inlet SCP G-GRS Files (2010)”

### Central Cook Inlet

CCI-01 – Anchor River  
CCI-02 – Stariski Creek  
CCI-03 – Deep Creek  
CCI-04 – Ninilchik River  
CCI-05 – Clam Gulch  
CCI-06 – Kasilof River  
CCI-07 – Kenai River  
CCI-08 – East Foreland  
CCI-09 – Gull Island  
CCI-10 – West Glacier Creek  
CCI-11 – Crescent River  
CCI-12 – Tuxedni River  
CCI-13 – Polly Creek  
CCI-14 – Little Jack Slough  
CCI-15 – Drift River  
CCI-16 – Big River  
CCI-17 – Kustatan River  
CCI-18 – McArthur River  
CCI-19 – Chuitna River  
CCI-20 – Swamp Creek  
CCI-21 – Middle River  
CCI-22 – Swanson River

### Kachemak Bay

KB-01 – Beluga Slough  
KB-02 – Humpy Creek  
KB-03 – Halibut Cove  
KB-04 – Peterson Bay  
KB-05 – China Poot Bay  
KB-06 – Neptune Bay  
KB-07 – Sadie Cove  
KB-08 – Yukon Island West  
KB-09 – Tutka Bay Lagoon  
KB-10 – Little Tutka Bay  
KB-11 – Jakolof Bay  
KB-12 – Kasitsna Bay  
KB-13 – Barabara Creek  
KB-14 – Seldovia Outside Beach  
KB-15 – Seldovia Slough  
KB-16 – Seldovia River  
KB-17 – Hoen's Lagoon  
KB-18 – Fourth of July Creek  
KB-19 – Johnson Slough  
KB-20 – Port Graham  
KB-21 – English Bay

**Northern Cook Inlet Zone**

NCI-01 Fish Creek  
NCI-02 Ship Creek  
NCI-03 Three Mile Creek  
NCI-04 Beluga River  
NCI-05 Theodore River  
NCI-06 Lewis River  
NCI-07 Ivan River  
NCI-08 Little Susitna River  
NCI-09 Goose Bay/Creek  
NCI-10 Fish Creek - N  
NCI-11 Wasilla Creek  
NCI-12 Spring Creek - RR  
NCI-13 Knik River  
NCI-14 Eagle River  
NCI-15 Campbell Creek  
NCI-16 Bird Creek  
NCI-17 Chickaloon River

**Seward Zone**

SZ-01 – Johnstone Bay  
SZ-02 – Day Harbor  
SZ-03 – Humpy Cove  
SZ-04 – Thumb Cove  
SZ-05 – Spring Creek  
SZ-06 – Tonsina Creek  
SZ-07 – Bulldog Cove  
SZ-08 – Abra Cove  
SZ-09 – Aialik Bay Spawning Streams  
SZ-10 – Pedersen Glacier Lagoon  
SZ-11 – Quicksand Cove Lagoon  
SZ-12 – McMullen Cove  
SZ-13 – Granite Passage  
SZ-14 – Cataract Cove  
SZ-15 – Harris Bay Lagoon  
SZ-16 – Otter Cove  
SZ-17 – Taroka Arm  
SZ-18 – Thunder Bay  
SZ-19 – Delight Lake Stream/  
McCarty Lagoon  
SZ-20 – Desire Creek  
SZ-21 – Nuka East Arm Rookery  
SZ-22 – James Lagoon  
SZ-23 – Palisade Lagoon  
SZ-24 – Ariadne Cove  
SZ-25 – Beautiful Isle  
SZ-26 – Pilot Harbor

SZ-27 – Nuka North Arm Spawning Streams  
SZ-28 – Beauty Bay  
SZ-29 – Yalik Bay

**Southeast Cook Inlet Zone**

SE-01 Home Cove  
SE-02 Mike's Bay  
SE-03 Berger Bay  
SE-04 Brown Mt. Salmon Stream  
SE-05 Back of Tonsina Bay  
SE-06 Takoma Cove  
SE-07 Sunday Harbor  
SE-08 Taylor Bay  
SE-09 Island Creek  
SE-10 Middle Creek  
SE-11 Port Dick Creek  
SE-12 Shelter Cove  
SE-13 Outer Rocky Bay  
SE-14 East Rocky Bay  
SE-15 Picnic Harbor  
SE-16 Windy Bay  
SE-17 Anderson Beach  
SE-18 West Perl Island Stream  
SE-19 E. Elizabeth Island Stream  
SE-20 Port Chatham  
SE-21 Clam Cove/Chrome Bay  
SE-22 Dog Fish/Koyuktolik Bay

**Southwest Cook Inlet Zone**

SW-01 Sukoi Bay  
SW-02 Douglas River - N  
SW-03 Akumwarvik Bay/Kamishak River  
SW-04 Horseshoe Cove/Pinkidulia Cove  
SW-05 McNeil Cove  
SW-06 Amakdedulia Cove  
SW-07 Chenik  
SW-08 Bruin Bay  
SW-09 Augustine Island - W  
SW-10 Sunday Creek  
SW-11 Head of Ursus Cove  
SW-12 North/South Heads of Iliamna Bay  
SW-13 Iniskin River  
SW-14 Oil Bay  
SW-15 Dry Bay  
SW-16 Cottonwood Bay  
SW-17 Paint River  
SW-18 Amakdedori Creek

# **GEOGRAPHIC RESPONSE STRATEGIES: PART ONE – INTRODUCTION**

## **A. PURPOSE AND SCOPE**

These Geographic Response Strategies (GRS) are designed to be an actual field supplement to the Cook Inlet Subarea Contingency Plan for Oil and Hazardous Substances Spills and Releases, commonly referred to as the Cook Inlet Subarea Contingency Plan (SCP). The GRS provide unified (public, responders, and agencies) priorities and response tactics for the protection of selected sensitive areas for assisting first responders to an oil spill. The GRS list the sensitive resources of an area and the response strategies, equipment, personnel and logistical information necessary to protect the identified sensitive areas. Because the Alaska Department of Environmental Conservation, the Environmental Protection Agency, and the U.S. Coast Guard already have approved the GRS, they can serve as pre-approved strategies for the Unified Command during the emergency phase of an oil spill response.

Implementation of these Geographic Response Strategies is the third phase of an oil spill response. The first and primary phase of the response is to contain and remove the oil at the scene of the spill or while it is still on the open water, thereby reducing or eliminating impact on shorelines or sensitive habitats. If some of the spilled oil escapes this tactic, the second phase, which is no less important, is to intercept, contain and remove the oil in the nearshore area. The intent of phase two is the same as phase one: remove the spilled oil before it affects sensitive environments. If phases one and two are not fully successful, phase three is to protect sensitive areas in the path of the oil. Phase three efforts endeavor to protect the selected sensitive areas from the impacts of a spill or to minimize that impact to the maximum extent practical.

The sites selected for development of Geographic Response Strategies are not meant to be exclusive; other sensitive sites may require protection during any given oil spill. The fact that a GRS may not have been developed for a certain sensitive site does not mean that site should not be protected if it is threatened by an oil spill. Sensitive areas include not only locations of environmental concern, but those of cultural or human use value, as well.

These GRS are intended to be flexible to allow spill responders to modify them, as necessary, to fit the prevailing conditions at the time of a spill. Seasonal constraints, such as ice or weather, may preclude implementation of some of the strategies. It is not intended that all the sites be automatically protected at the beginning of a spill, only those that are in the projected path of the spill. The strategies developed for the selected sites were completed with a focus on minimizing environmental damage, utilizing as small a footprint as needed to support the response operations, and selecting sites for equipment deployment that will not cause more damage than the spilled oil.

To test these GRS, each site may be visited and equipment deployed according to the strategy, to ensure that the specified tactics are effective in protecting the resources at risk at the site. Revisions will be made to the GRS that appear in this document, if changes are indicated by site visits, drills, or actual use during spill responses. In the future, strategies may be developed for additional sensitive areas.

## **B. HOW THE GRS WERE DEVELOPED**

These GRS were developed through a cooperative, workgroup process involving federal, state, and local spill response experts working with representatives from the oil production and transportation industry, citizens' groups, and natural resource agencies, as well as multiple local stakeholders (see below for a list of invited participants). The Subarea Committee divided the Cook Inlet Subarea into seven geographic response zones in order to better facilitate the organization and development of the GRS (see figure G-1). A separate workgroup formed for each of the seven zones.

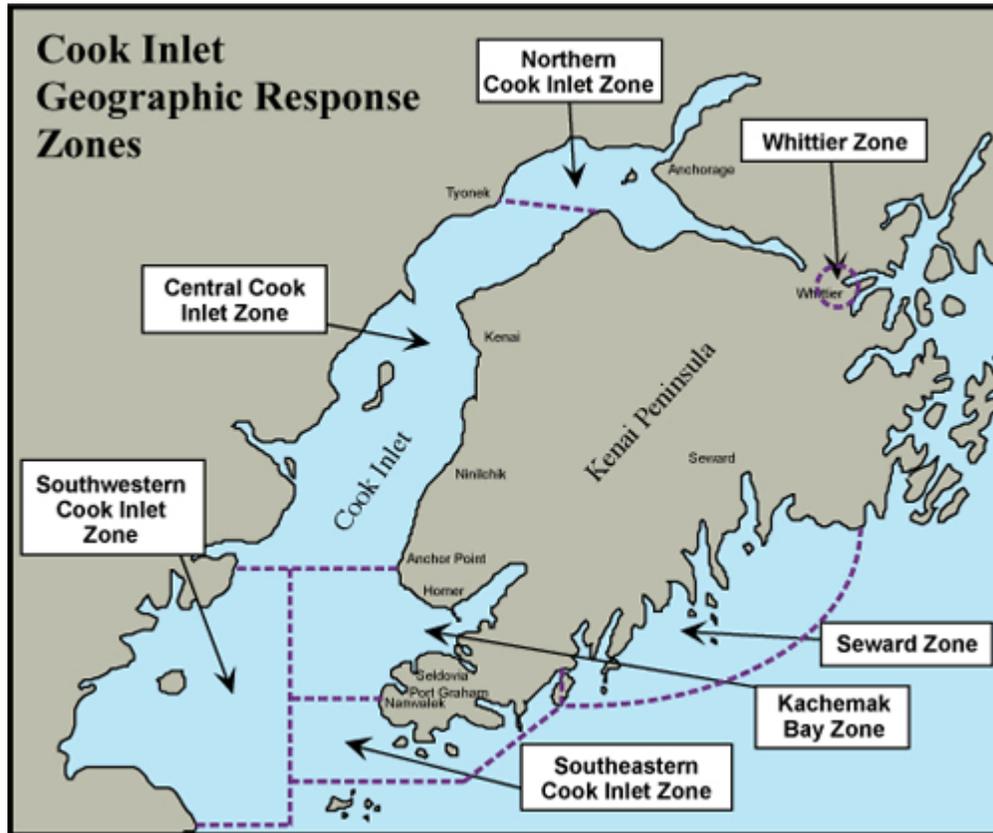
Workgroup participants identified all sensitive areas with potential to be classified as “Areas of Major Concern” under the criteria established in the Cook Inlet Subarea Plan. These potential sites were evaluated by the additional criteria of 1) the risk of being impacted from a water-borne spill; and 2) the feasibility of successfully protecting the site with existing technology. Using this process, the workgroup selected a preliminary list of sites that was released for public input. Feedback on the site selection was solicited from local inhabitants (if applicable), tribal representatives, user groups, environmental organizations, and the general public. Based on the feedback received, the workgroup made the final site selections for each zone within the subarea. Additional sites may be selected in the future.

A Cook Inlet Tactics Committee, composed of spill response professionals and personnel from natural resource agencies, formed to develop draft strategies for each selected site. The entire workgroup reviewed each draft strategy and then gave approval to the final draft, before it was then forwarded to the Cook Inlet Subarea Committee with the recommendation that it be adopted as part of the Cook Inlet SCP.

The introduction section (<http://www.dec.state.ak.us/spar/perp/grs/ci/cigrsp1.pdf>) lists each zone’s workgroup members. The following agencies and groups usually provided representation to the workgroups:

- Alaska Chadux Corporation
- Alaska Department of Environmental Conservation
- Alaska Department of Fish and Game
- Alaska Department of Natural Resources
- Anadarko Petroleum
- Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE; formerly Minerals Management Service)
- Chevron
- Conoco Phillips
- Cook Inlet Keeper
- Cook Inlet Pipeline Company
- Cook Inlet Regional Citizens Advisory Council
- Cook Inlet Spill Prevention and Response, Inc.
- Crowley Marine Services
- Environmental Protection Agency
- Kenai Peninsula Borough
- National Marine Fisheries Service
- National Oceanic and Atmospheric Administration
- National Park Service
- Prince William Sound Regional Citizens' Advisory Council
- Tesoro Alaska Company
- United States Coast Guard
- United States Department of the Interior
- United States Fish and Wildlife Service
- United States Forest Service
- Unocal
- Williams Alaska Petroleum

**Figure G-1: Cook Inlet Subarea Geographic Response Zones**



**C. HOW TO USE GEOGRAPHIC RESPONSE STRATEGIES**

The GRS are an important addition to the Cook Inlet SCP. The GRS are intended for use by response professionals already familiar with spill response techniques. Each GRS contains basic protection and recovery strategies, with directions for implementation in the field. Each description contains the response objective, deployment depictions, equipment and personnel required to implement the strategy, and deployment limitations and considerations. These general strategies may be adapted to produce a protection scheme for almost any non-selected site in the Cook Inlet Subarea. The specified response tactics are taken from the State of Alaska’s oil spill response tactics guide, *Spill Tactics for Alaska Responders* (STAR Manual). Responders should refer to the STAR Manual for more detailed information about the tactics identified in the GRS. The STAR manual, published by ADEC, is available online at:

<http://www.dec.state.ak.us/spar/perp/star/docs.htm>

These site-specific response strategies appear in Part Two of the Geographic Response Strategies Section. An index at the beginning of each subsection shows the location of the GRS-selected sites. Each GRS consists of two parts: 1) a graphic page showing a map, deployment diagram, picture and implementation notes; and 2) a matrix giving the location description, response strategy, response resources, staging area, site access, natural resources being protected, and any special considerations.

**D. WHO TO CONTACT FOR INPUT**

Comments and recommendations on these GRS are welcomed. Please send your comments to either of the following agencies:

Alaska Department of Environmental Conservation  
Prevention and Emergency Response Program  
555 Cordova Street  
Anchorage, AK 99501

United States Coast Guard  
Captain of the Port, Western Alaska  
510 L Street  
Anchorage, AK 99501

# **GEOGRAPHIC RESPONSE STRATEGIES:**

## **PART TWO – INDEX MAPS & SITE DOCUMENTS**

Online, see <http://www.dec.state.ak.us/spar/perp/grs/ci/home.htm> for the following GRS.

On the Cook Inlet SCP CD, refer to the folder “Cook Inlet SCP G-GRS Files (2010)”

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