

The Unified Plan and the Western Alaska Subarea Contingency Plan

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State of Alaska

*Dept of Environmental Conservation
Spill Prevention and Response Division*



Spill Response in Alaska

- Roughly 2,000 spills per year on the average
- DEC staff perform field visits/phone follow-ups to roughly 750-800 of these spills
- 25-30 spills are considered “significant” with Situation Reports generated
- 36 primary spill responders in DEC



Notable Spills in Western Alaska

| Date | Spill Name/Location | Substance | Quantity |
|------------|---------------------------------|---|-------------|
| 4/16/1993 | Bethel BIA Tank Farm | Diesel | 132,000 gal |
| 3/8/2011 | Crowley Aniak Containment | Aviation Fuel | 23,000 gal |
| 6/17/1996 | Tuntutuliak Gasoline Spill | Gasoline | 9,000 gal |
| 2/7/2005 | AVEC Nunapitchuk Diesel | Diesel | 8,000 gal |
| 7/5/2006 | Kipnuk Bulk Tank Diesel Release | Diesel | 6,100 gal |
| 5/24/2010 | Coastal Villages Platinum | Freon (Dichlorodifluoromethane All Types) | 6,000 lbs |
| 5/12/1995 | Atmautluak Diesel Spill | Diesel | 5,000 gal |
| 7/31/1996 | Bethel Fuels Overfill | Diesel | 5,000 gal |
| 9/25/2010 | YSD Tuluksak Tank Farm | Diesel | 5,000 gal |
| 12/21/2006 | Crowley Tank Farm Hooper Bay | Gasoline | 3,200 gal |
| 7/5/1995 | F/V Mattie-O | Diesel | 3,000 gal |
| 7/13/2007 | | Diesel | 3,000 gal |
| 4/8/2010 | Kagkaktlik Kipnuk Gasoline | Gasoline | 2,080 gal |
| 7/7/1995 | Chevak Gasoline Spill | Gasoline | 2,000 gal |
| 6/29/2009 | Middle Kuskowim Daytank | Diesel | 2,000 gal |

Legal Mandates



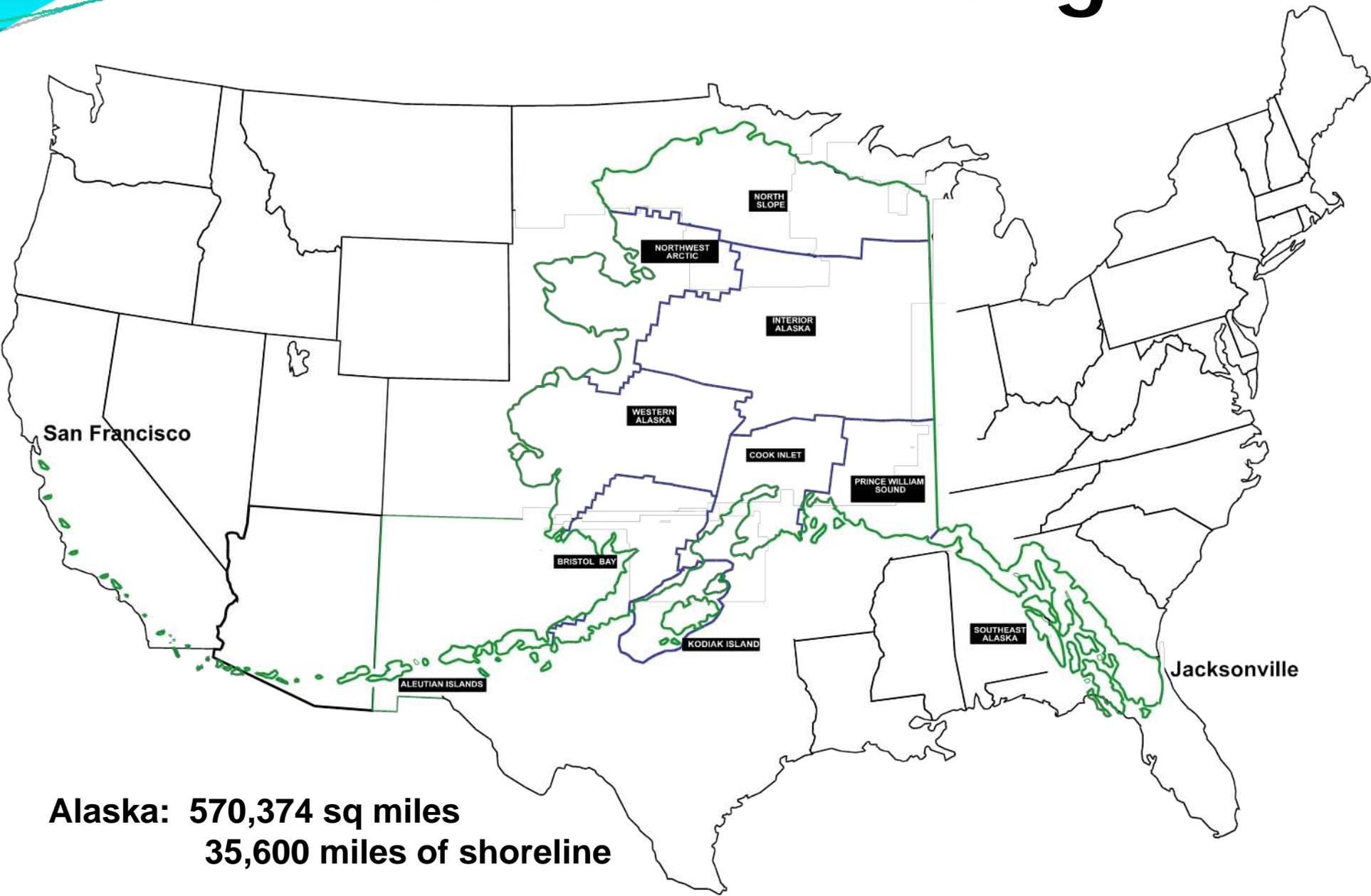
- **Oil Pollution Act of 1990**
- **Clean Water Act**
- **Alaska Statutes & Regulations**

Federal/State Planning Requirements

- **OPA 90 requires USCG and EPA to prepare the National Contingency Plan, plus develop Regional and Area Contingency Plans throughout the country**
- **The Alaska Statute requires ADEC to develop a State Master Plan and 10 Regional Master Plans for the ten “regions” of the state.**

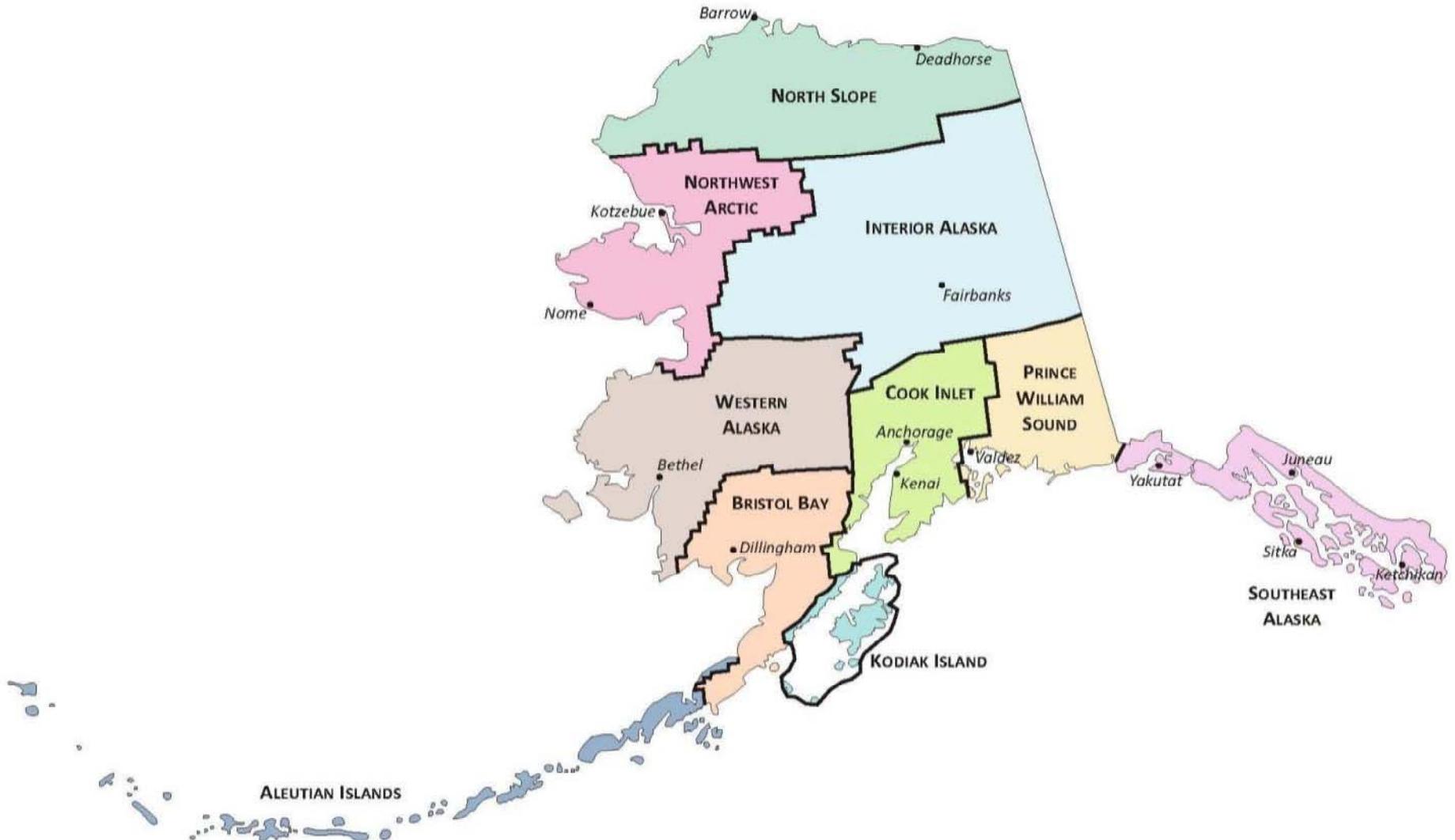


The Overall Challenge



Alaska: 570,374 sq miles
35,600 miles of shoreline

Unified Plan and 10 Subarea Plans



Joint Government Planning in Alaska

FEDERAL

STATE

***NATIONAL CONTINGENCY
PLAN***

***REGIONAL CONTINGENCY
PLAN***

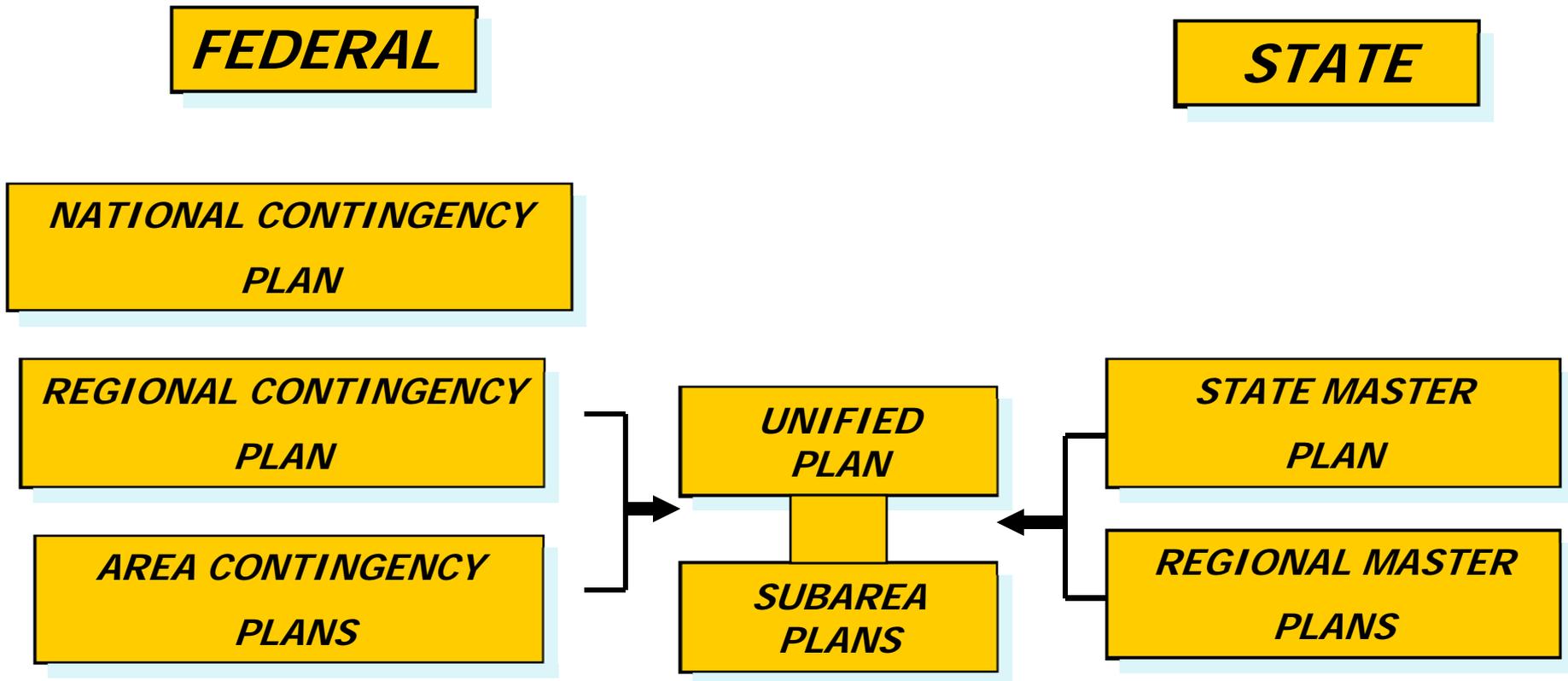
***AREA CONTINGENCY
PLANS***

***UNIFIED
PLAN***

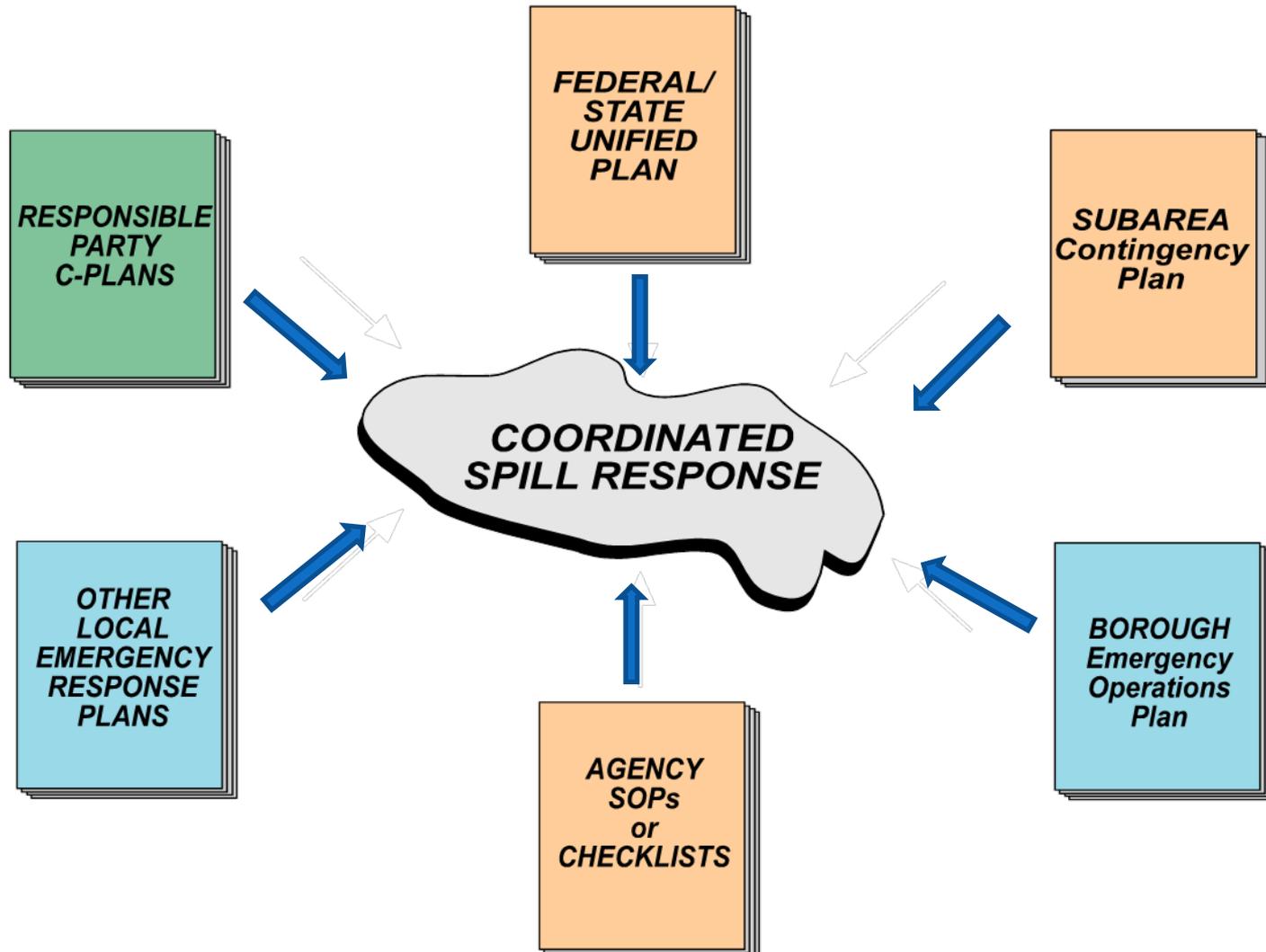
***SUBAREA
PLANS***

***STATE MASTER
PLAN***

***REGIONAL MASTER
PLANS***



Integrated Response

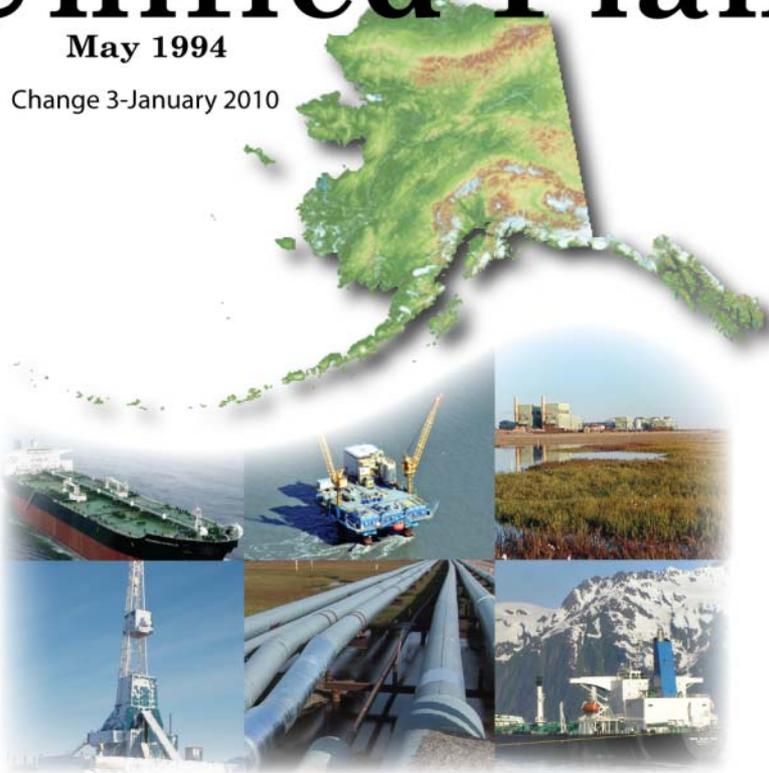




Unified Plan

May 1994

Change 3-January 2010



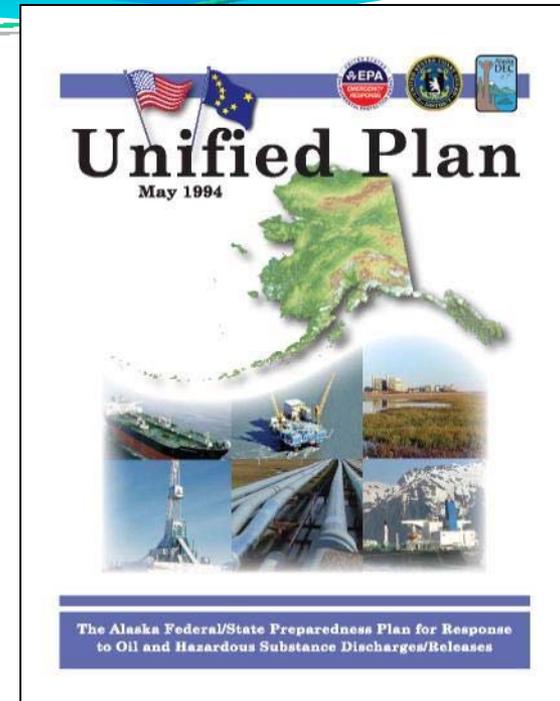
The Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substance Discharges/Releases

The Unified Plan

The Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substance Discharges/Releases

Unified Plan

- Describes the strategy for a coordinated Federal, State, and local response to a discharge, or substantial threat of a discharge of oil or hazardous substance within Alaska.



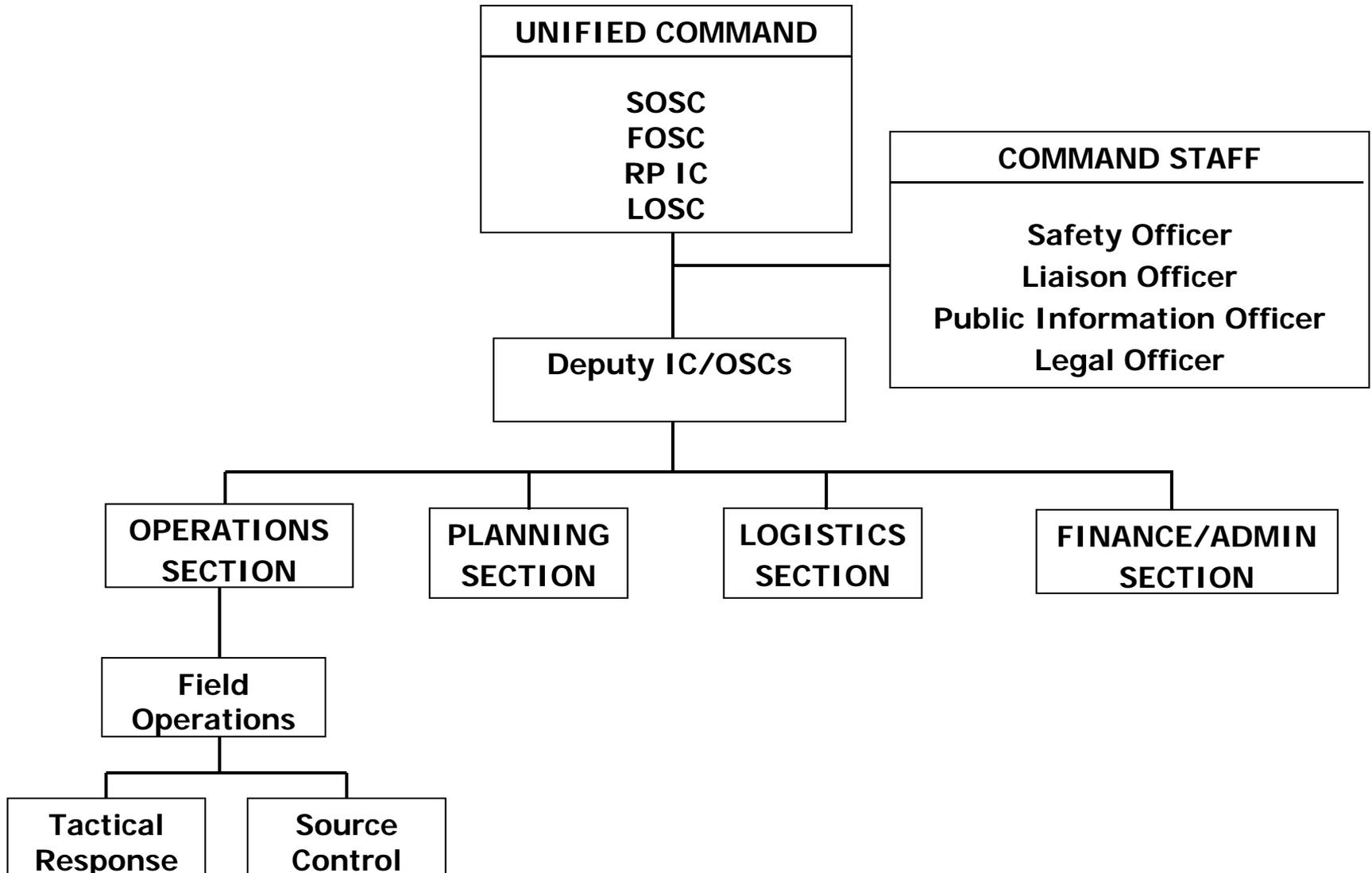
- Provides information and guidance applicable to pollution responses within the entire State of Alaska including:
 - Emergency notification information
 - General emergency response procedures
 - 18 Annexes, A-P, V and Z, by subject matter.

Unified Plan - Overview

- **Annex A - Introduction**
 - Summary of legal mandates
 - Agency authority during a response.
- **Annex B – Unified Response Organization**
 - Intro to the organization and management of spill response – Incident Command System
 - Clarification of ‘who’s in charge?’
 - Federal and State Roles and Oversight Responsibilities
 - Disaster Response Organizational Structure

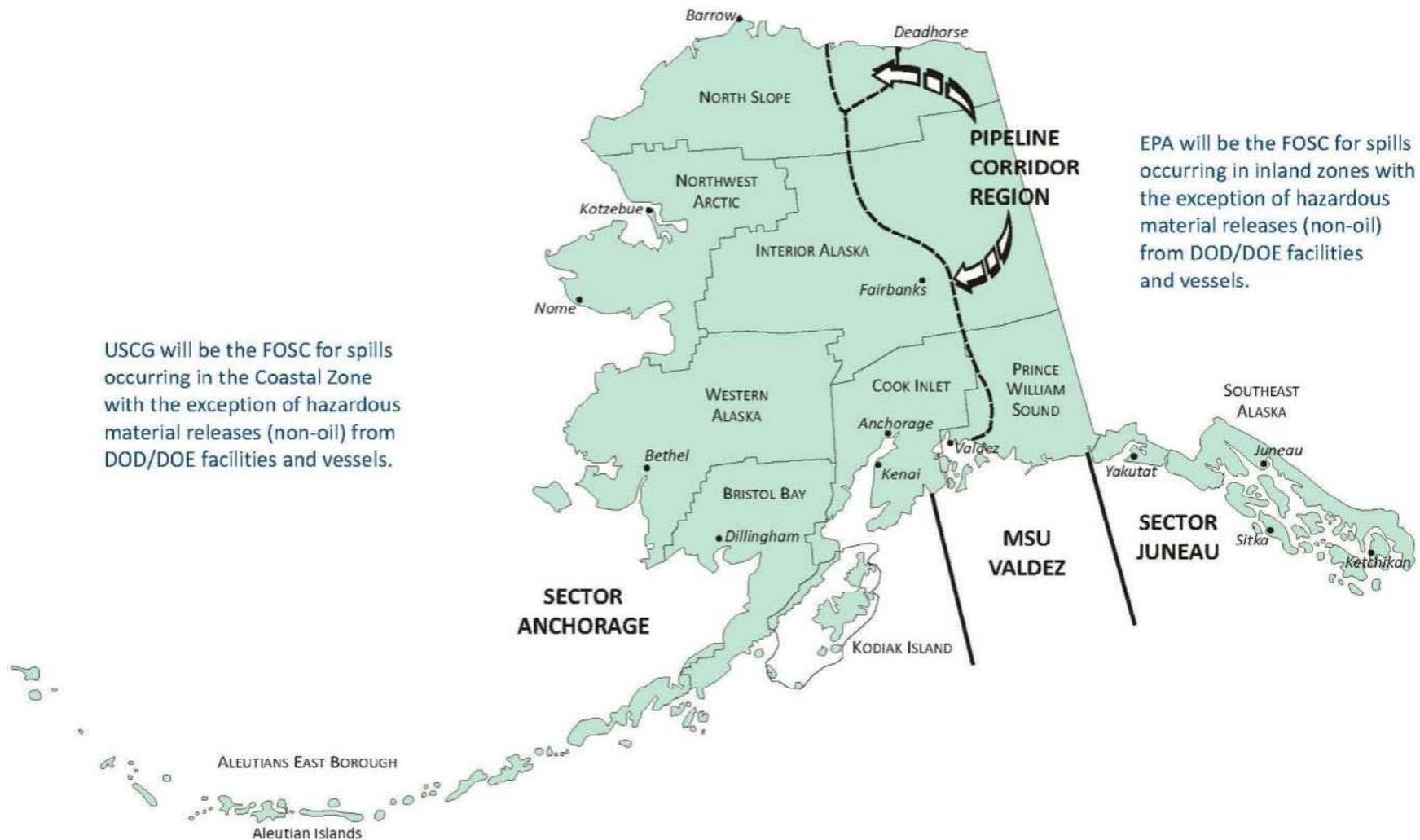


Typical Response Organization



The FOSC Areas of Responsibility

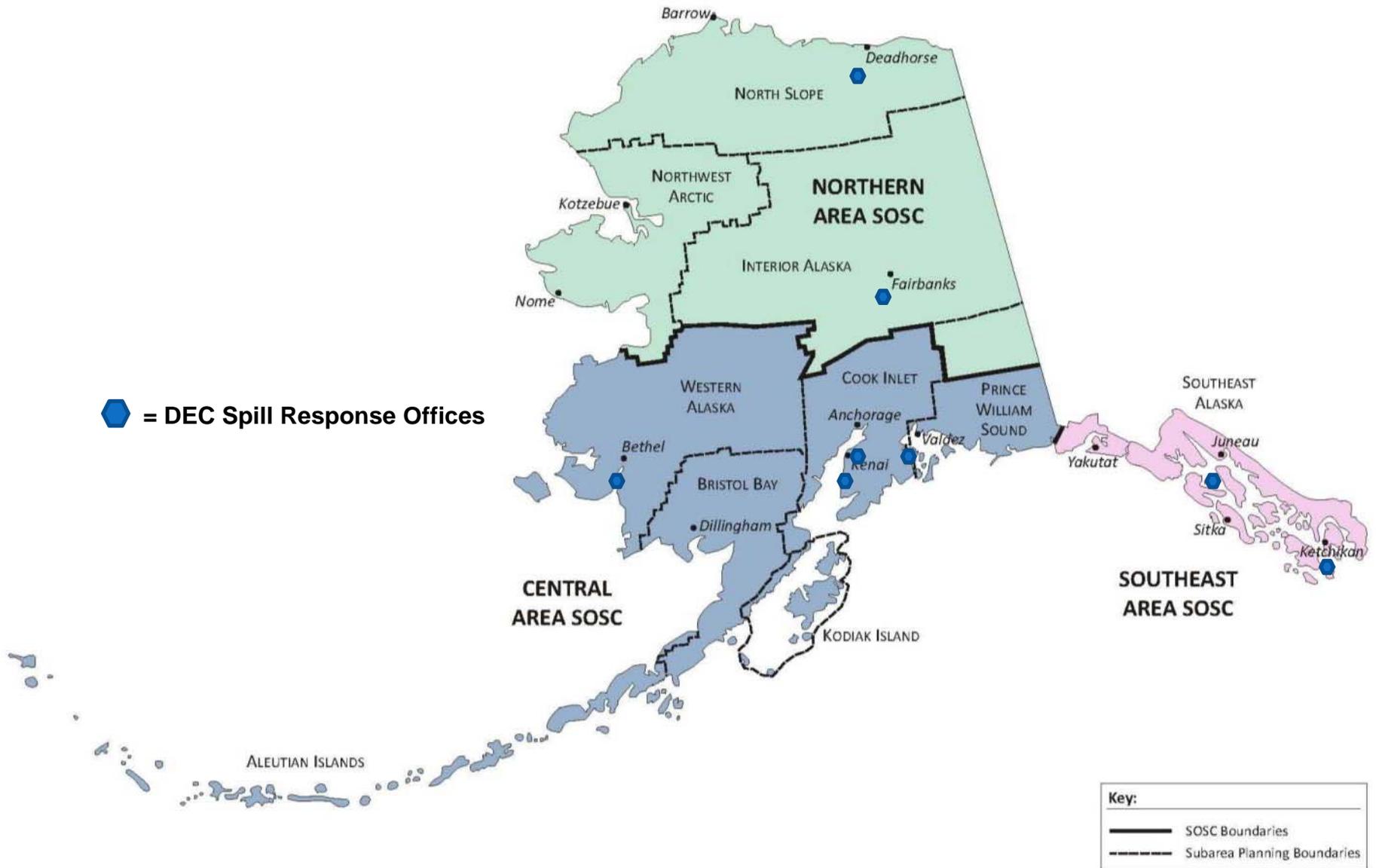
Pre-Designated Federal On-Scene Coordinators (FOSC) – Areas of Responsibility



USCG will be the FOSC for spills occurring in the Coastal Zone with the exception of hazardous material releases (non-oil) from DOD/DOE facilities and vessels.

EPA will be the FOSC for spills occurring in inland zones with the exception of hazardous material releases (non-oil) from DOD/DOE facilities and vessels.

The SOSOC Areas of Responsibility



Unified Plan - Overview

- **Annex C – Operational Administration**
 - Funding, reporting, permits & permitting authorities
 - <http://dec.alaska.gov/spar/perp/permits/index.htm>

State of Alaska > DEC > SPAR > Prevention and Emergency Response Program

Alaska Oil Spill Permits Tool

USE MENU BELOW TO NAVIGATE THIS TOOL



Master Permit List

Permits by Agency

Permits by Activity

Other Docs

Incident Data



Alaska's current statewide oil spill response system involves a complex assortment of permits, forms, and applications that must be prepared and filed during various phases of the response. This tool provides streamlined access to over 50 documents, reducing time needed to mount an effective response.

USE THE MENU ABOVE TO NAVIGATE THE TOOL.

[CLICK HERE FOR HELP ON USING THIS TOOL](#)

Unified Plan - Overview

- **Annex D – Plan Review and Update**
 - **Unified Plan and Subarea Plan review/updates**
 - **State and Federal Discharge exercise requirements**

- **Annex E – Summary of Statewide Resources**

- **Federal and State Resources**
- **Logistical Information –statewide assets**
- **Special Forces, Personnel and Information**
- **Communications, Waste Management and Disposal**



Unified Plan - Overview

- **Annex F – Chemical Countermeasures**
 - **Dispersants**
 - ARRT-Approved Guidelines
 - Permit Application
 - Pre-identified Zones for Prince William Sound and Cook Inlet
 - **In Situ Burning**
 - Background
 - Permit Application



Unified Plan - Overview

- **Annex G – Wildlife Protection Guidelines for Alaska**
- **Annex H – Health, Safety, and Training**
- **Annex I – Public Affairs**
- **Annex J – Radiological Response Procedures**
- **Annex K – Applicable MOUs/MOAs**
- **Annex L – Hazardous Materials**



Unified Plan - Overview

- **Annex M – Cultural Resources Protection Guidelines for Alaska**
- **Annex N – Shoreline Cleanup and Assessment Guidelines**
- **Annex O – Potential Places of Refuge**
- **Annex P – Marine Salvage and Lightering**
- **Annex V - Volunteers**
- **Annex Z – Definitions, Abbreviations & Acronyms**

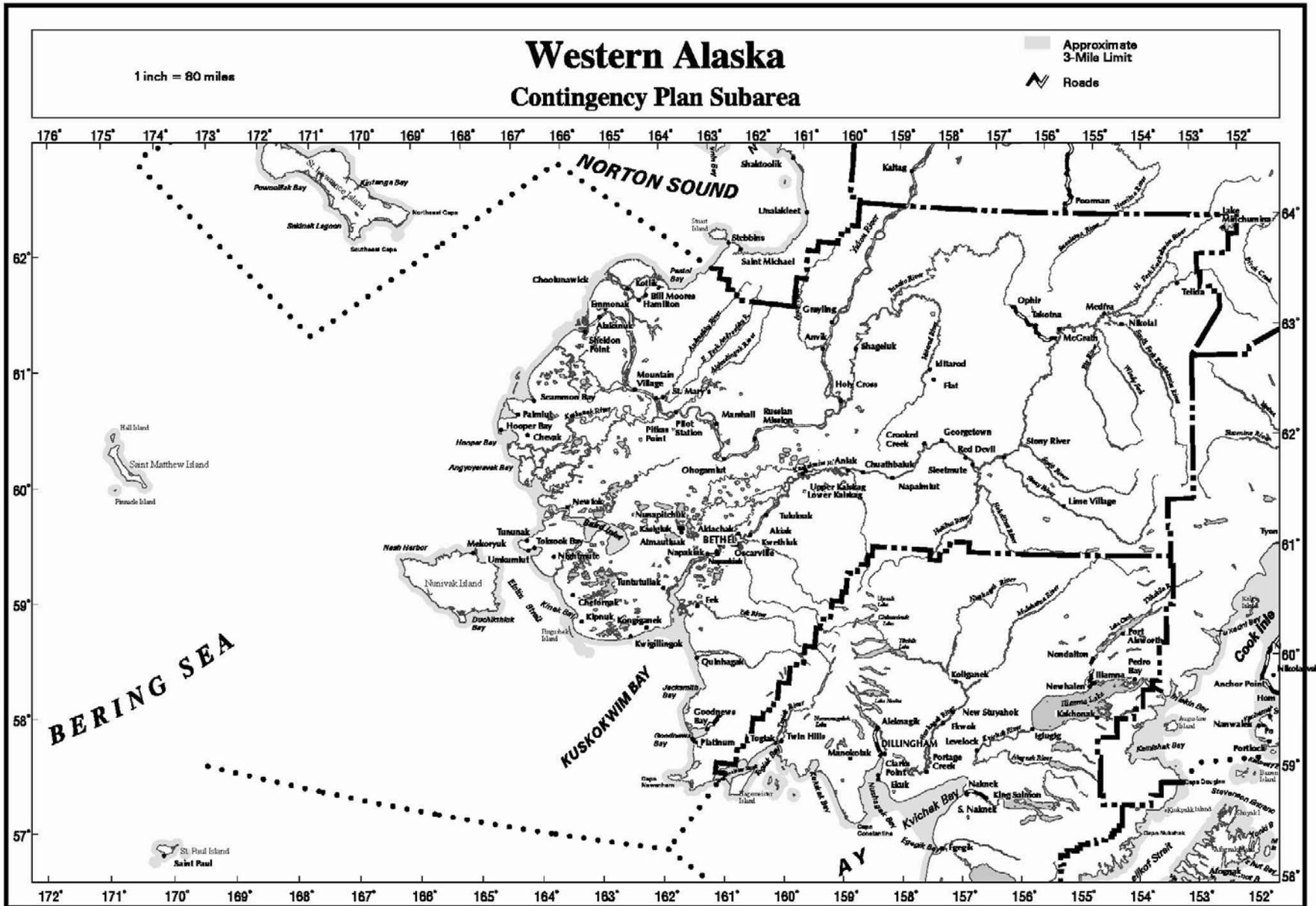




The Western Alaska Subarea Contingency Plan



The Western Alaska Subarea



Local Government and Tribal Roles in Federal/State Planning

- Tribal & Local Government Input is Critically Important to Federal/ State Plans
- Input Process includes Government to Government consultation, EPA questionnaires, and the public review process.



Federal/State Spill Response Plans

Western Alaska SCP:

- A – Response
- B – Regional Resources
- C – HazMat
- D - Sensitive Areas
- E – Background
- F – Scenarios
- G - Geographic Response Strategies (TBD)
- H – Specific PPORs (TBD)

Unified Plan:

- Response Organization
- Administration
- Dispersants & ISB
- Wildlife Protection Guidelines
- Statewide Resources
- Hazmat, Radiological
- Health & Safety Guidelines
- Joint Information Center
- PPOR Guidelines
- Volunteer Guidelines

Response Section

- Emergency Response Notification Lists
 - FOSC and SOSC
 - Federal and state agencies
 - Local governments and other contacts
- Unified Command structure and roles of response organizations.
- Response procedures, including:
 - Response Objectives
 - Ramp up Procedures
 - Protocols for health & safety, dispersants & *in situ* burning, and waste removal.



Resources Section

- **Community Profile on each town or village in the subarea**
- **Response equipment –**
 - **commercially and non-commercially available, plus spill cooperative inventories**
- **Information Directory**
- **Equipment, personnel, command centers, and communications**



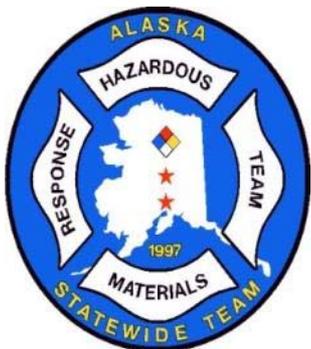
Resources Section includes:

- Airports and Air Services
- Emergency Services Managers
- Fishing Organizations
- Hospitals
- Media
- Native Organizations and Tribes
- Port Authorities
- Response Agreements
- Salvage and Towing
- Trustees for Natural Resources
- Vehicles
- Weather Service
- Useful Websites,
and much more...



Hazardous Materials Section

- Hazmat Response Protocols
- State and federal authorities, policies, responsibilities, and response capabilities
- Hazmat Risk Assessment



Sensitive Areas Section



Background Section

- **Subarea Description**
- **Regional Stakeholder Committee**
- **Federal, State Response Strategies/Priorities**
- **Spill History**
- **Oil Fate and Effects/Risk Assessment**

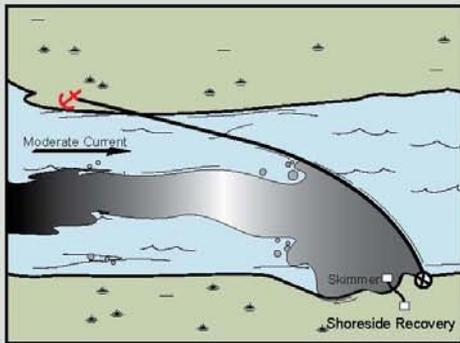


Scenarios Section

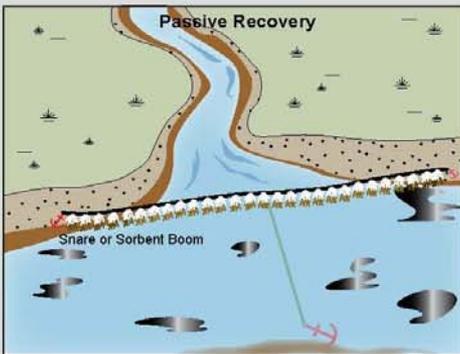
- **Worst Case Discharge Scenario:**
 - **Vessel:** Discharge of entire cargo in adverse weather conditions.
 - **Onshore or Offshore Facility:** Largest foreseeable discharge in adverse weather conditions.
 - **Maximum Most Probable Discharge Scenario:**
 - Based on largest recorded spill for the subarea.
 - **Average Most Probable Discharge Scenario:**
 - Based on the size of the average spill in the subarea.
- Optional Scenario:**
- **Hazmat Scenario**



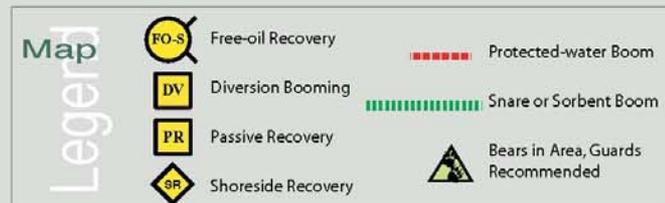
Geographic Response Strategies Section



An example of the *Diversion Booming Tactic*. Actual deployment should be adjusted for local conditions.



An example of the *Passive Recovery Tactic*. Actual deployment should be adjusted for local conditions.

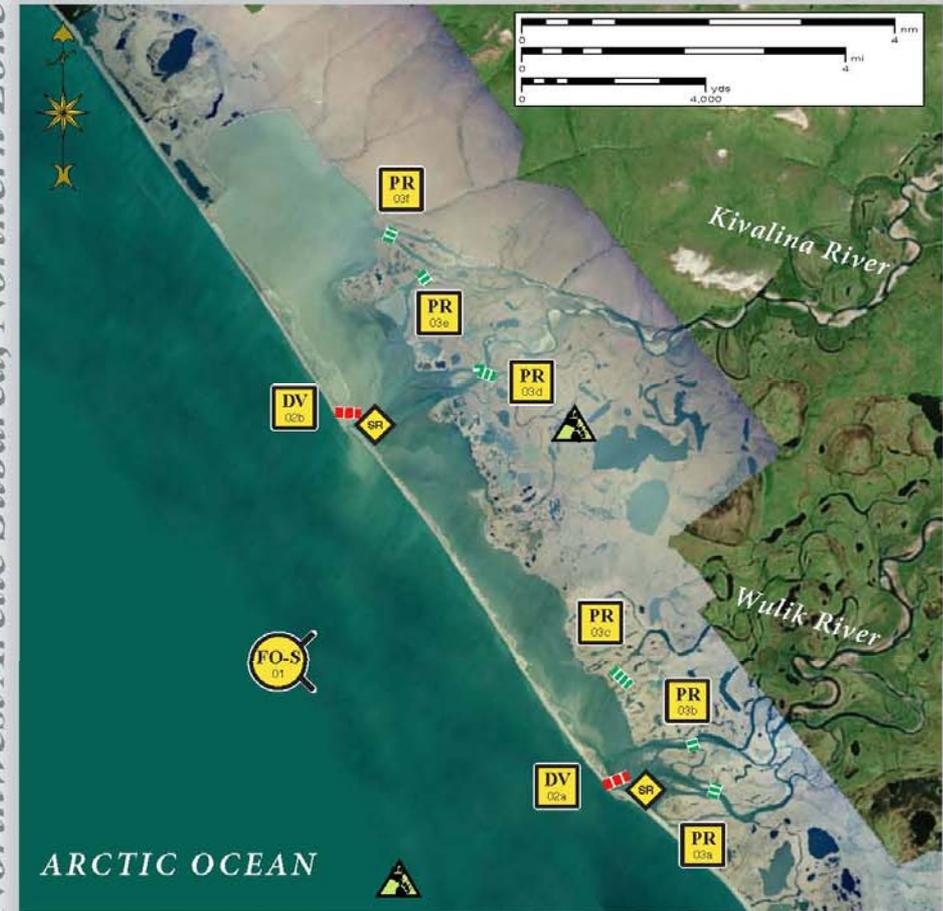


Aerial photography of this area is unavailable at this time, but may be included as it becomes available.

Geographic Response Strategies for Northwest Arctic Subarea, Northern Zone

Kivalina River/Wulik River, NWA-N04

Center of map at 67° 48'8" N Lat., 164° 89'55" W Lon.



This is not intended for navigational use.

- Sensitive Area Prioritization and Protection
- Pre-Identified Operational Tactics

Potential Places of Refuge Section

- **Two Critical Factors to Consider:**
 - **Sensitive Area Protection**
 - **Operational Needs**



Response Strategies and Tactics

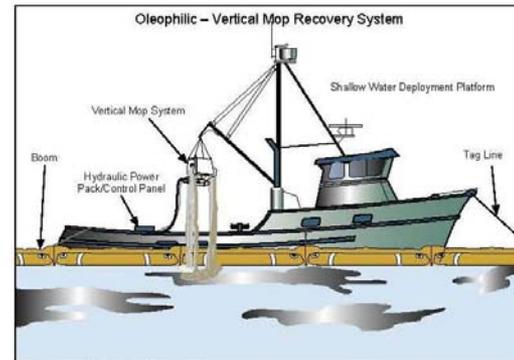


Figure MR-7. Vertical mop recovery system.

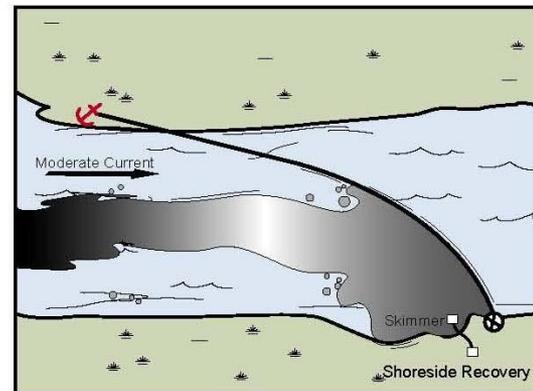
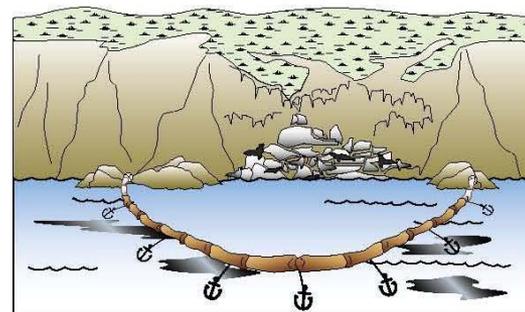


Figure DV-6. Single boom diversion configuration.

Off Shore Prevention Initiative: Emergency Towing System

**A Successful ETS
Employment:
M/V Golden Seas
(December 2010)**



Nearshore Response Planning Initiative

- **Goal: Protect State Resources from Impacts of Oil Spills (State Waters extend out to 3 miles from the shoreline)**
- **Objective: Develop Standard Nearshore Operations Response Strategy to supplement the STAR Manual**



Local Response Agreements

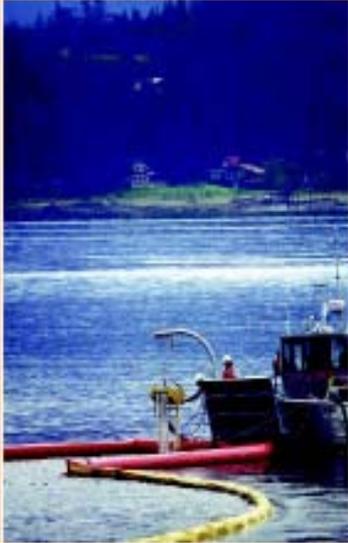
- **Formal Agreement between DEC and Local Community; 43 agreements in place, several pending**
- **Activated by DEC's State On-Scene Coordinator for spills in local area**
- **Local Community Reimbursed by DEC for expenses incurred**
- **DEC-owned Spill Response Container located in Community**



Alaska Department
of Environmental Conservation

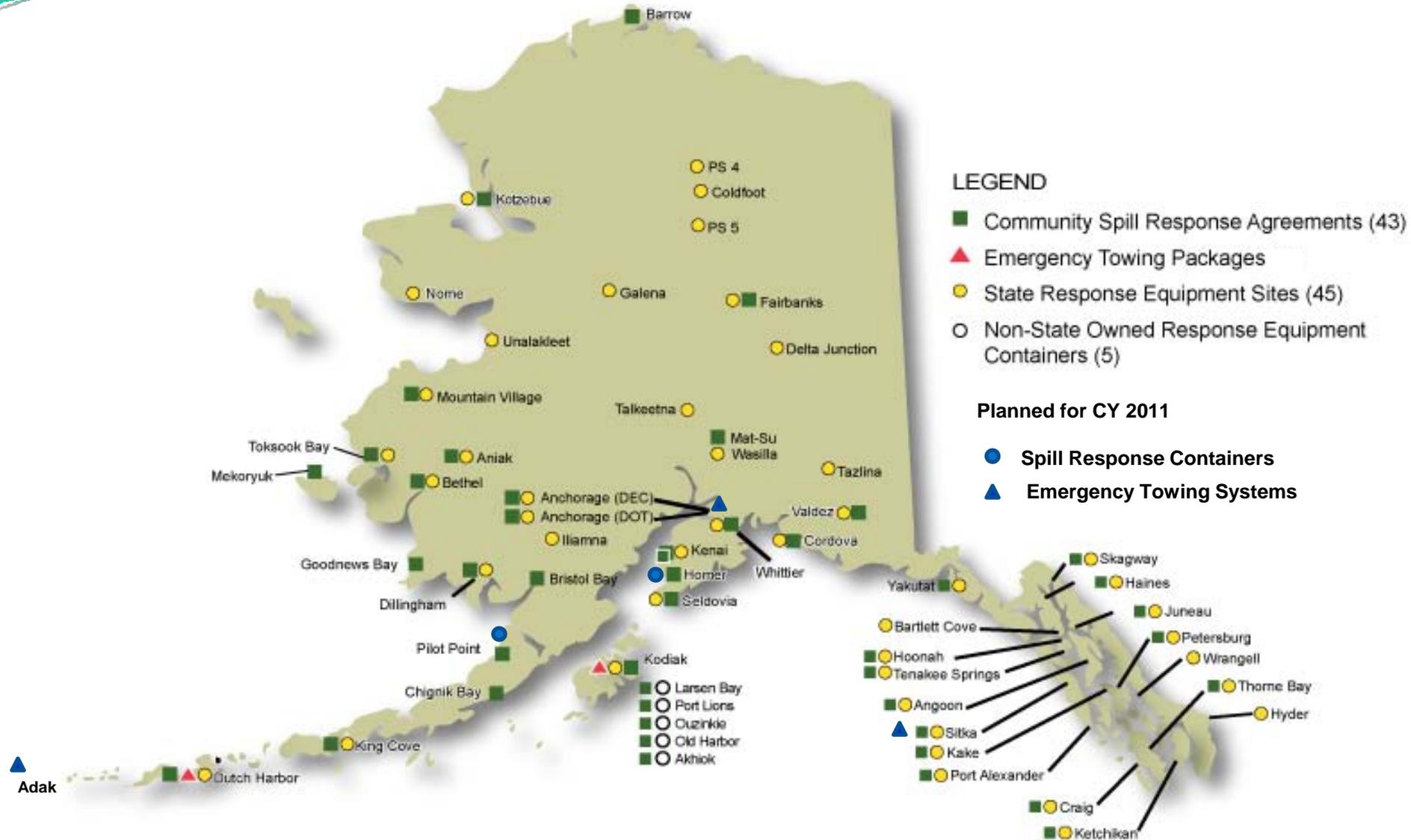
Community Spill Response

Developing partnerships with local communities to expand Alaska's oil and hazardous substance spill response capabilities and readiness



Prevention and Emergency Response Program

State of Alaska Local Response Assets



Local Community Response Enhancements

- **Spill Response Containers**
- **DEC provides Training to Local Responders**
- **DEC provides maintenance and replacement costs for equipment and supplies**



Key Roles for Local Responders

- **Local On-Scene Coordinator**
- **Regional Stakeholder Committee**
- **Local Knowledge**
- **Augment the Response with Trained Workers**

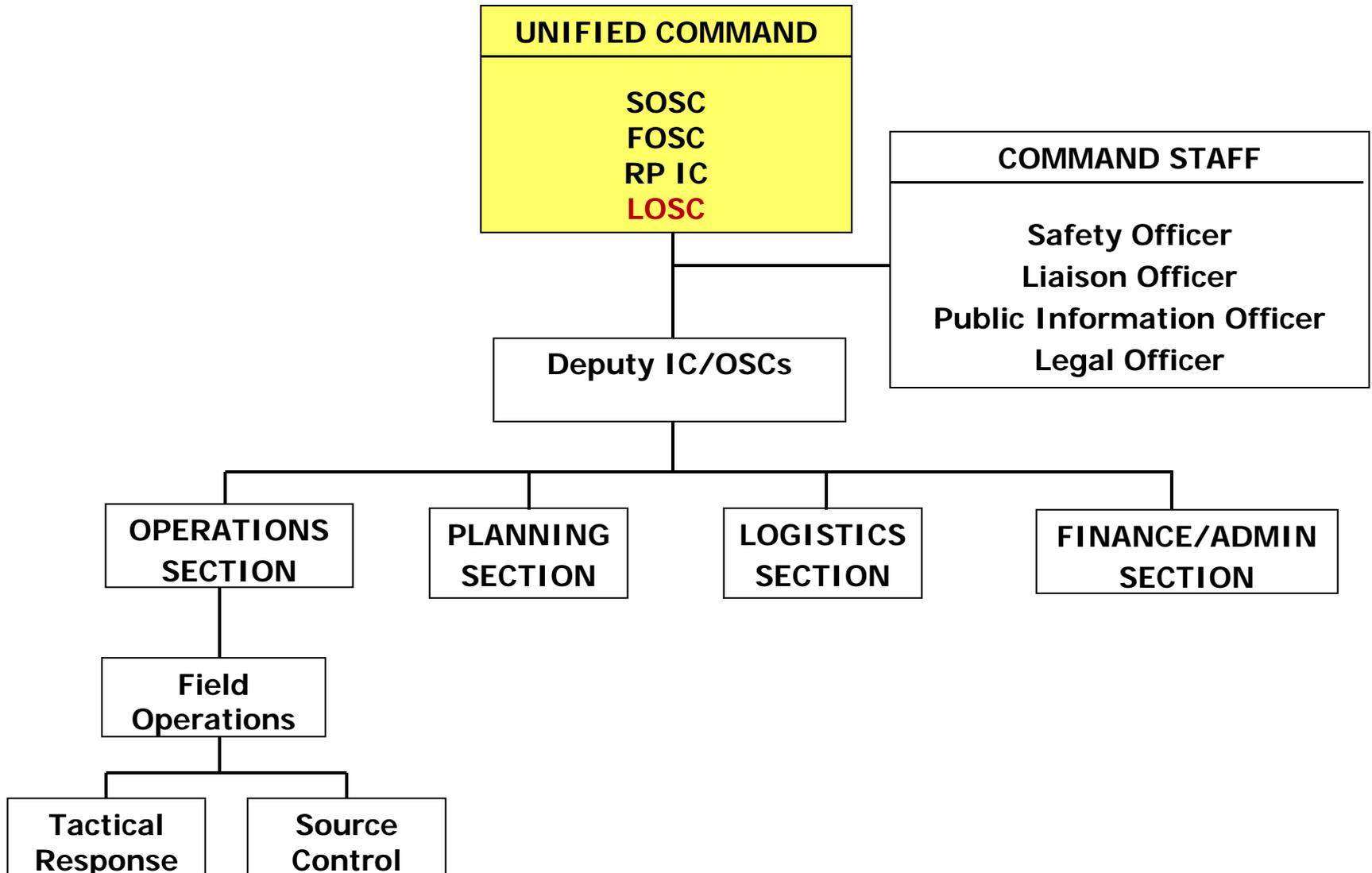


North Slope Borough Village Response Team – GC-2 Spill (March 2006)

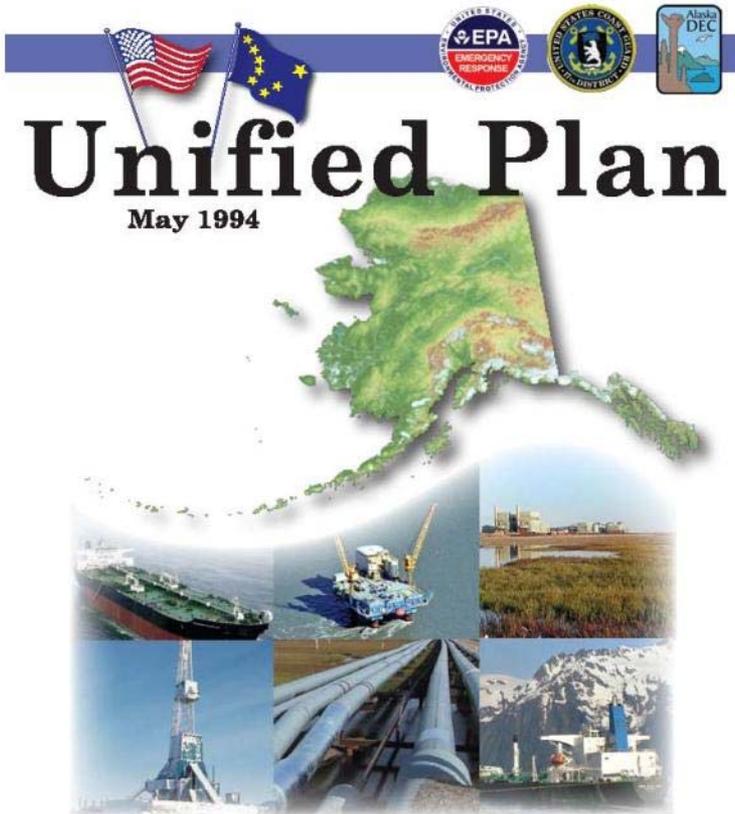


Local-Hire Worker – Selendang Ayu Spill (April 2005)

Typical Response Organization



Key Federal/State Plans



The cover of the Unified Plan features a blue header with the American and European Union flags on the left, and logos for the EPA Emergency Response Program, the United States Coast Guard, and the Alaska Department of Environmental Conservation (DEC) on the right. The title "Unified Plan" is prominently displayed in a large, bold, black font, with "May 1994" written below it. A central graphic shows a map of Alaska with a white glow effect. Below the map is a collage of six images: an oil tanker, an offshore oil rig, a coastal landscape, an oil derrick, large pipes, and a snowy mountain range.

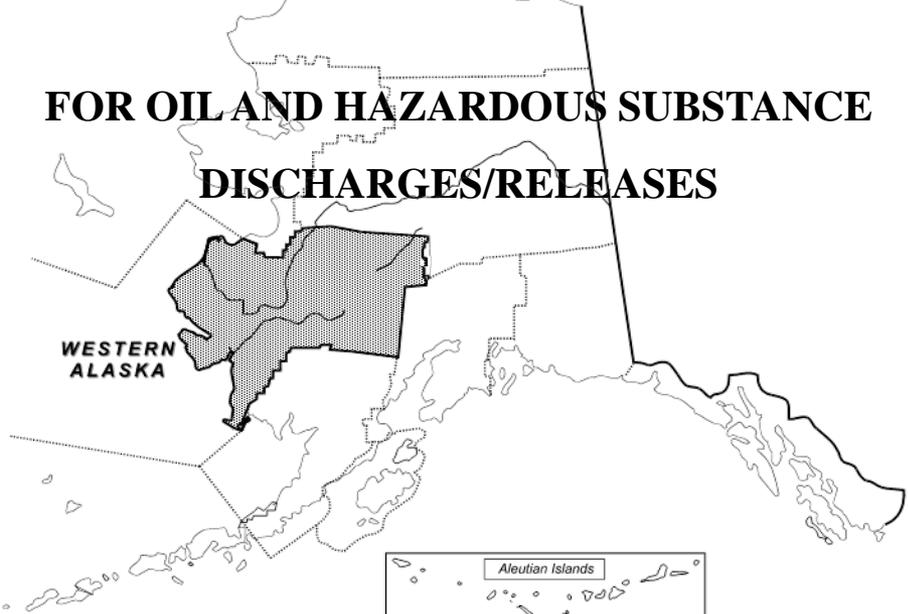
Unified Plan
May 1994

The Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substance Discharges/Releases

WESTERN ALASKA

SUBAREA CONTINGENCY PLAN

FOR OIL AND HAZARDOUS SUBSTANCE DISCHARGES/RELEASES



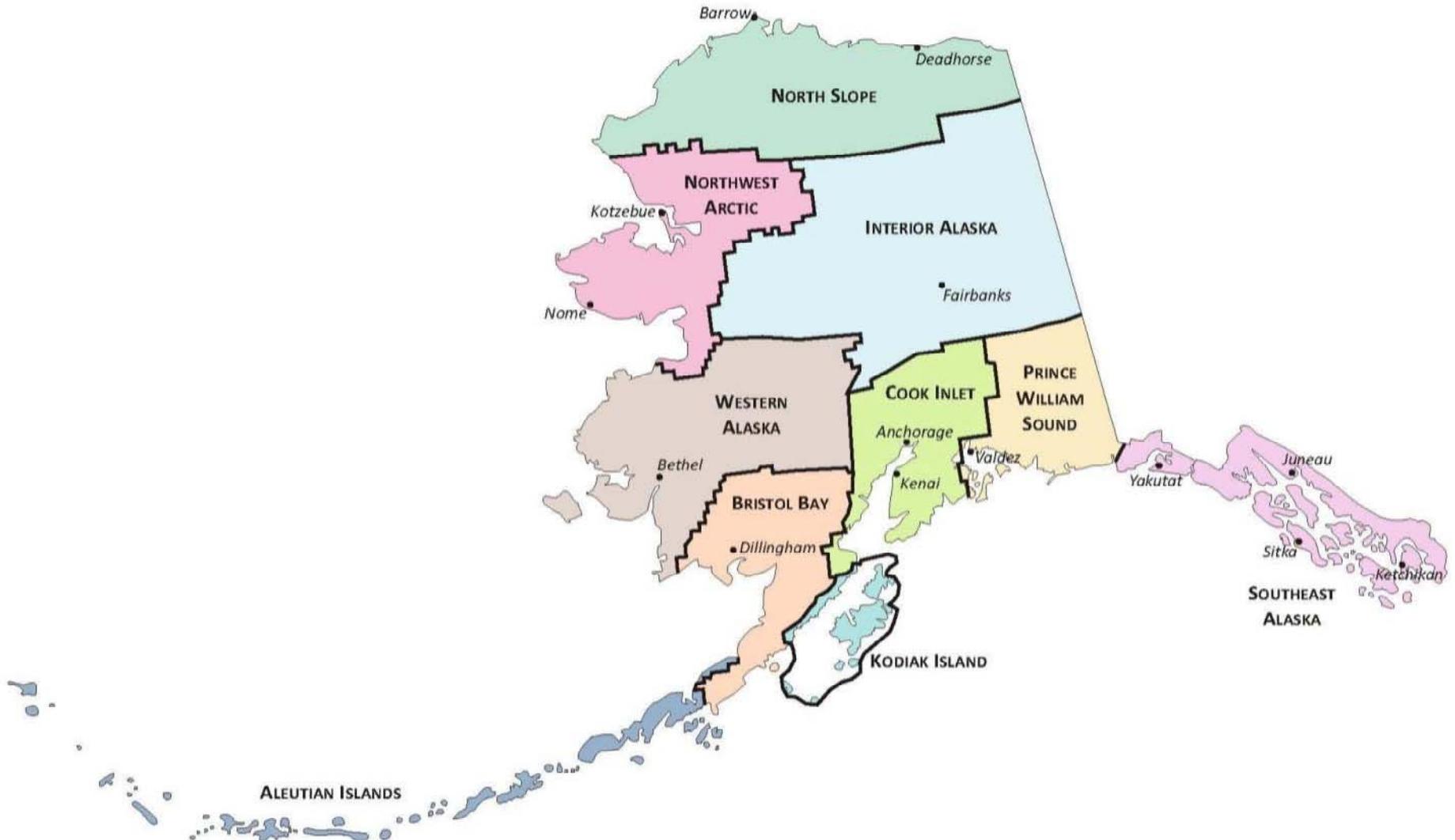
The map shows the outline of the state of Alaska. A shaded region in the western part of the state is labeled "WESTERN ALASKA". A small inset map at the bottom right shows the Aleutian Islands chain.

WESTERN ALASKA

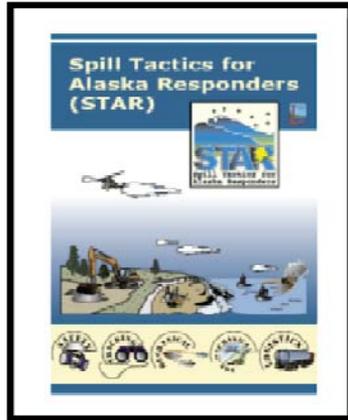
Aleutian Islands

A Subarea Plan of the Unified Plan for the State of Alaska

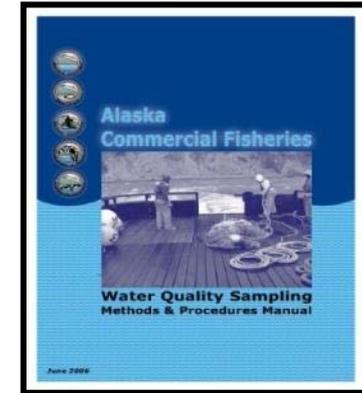
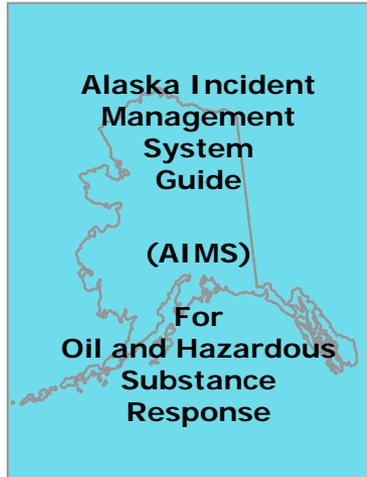
Unified Plan and 10 Subarea Plans



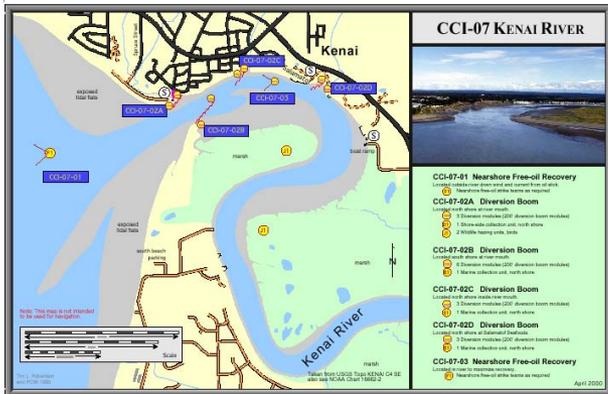
Supporting Documents



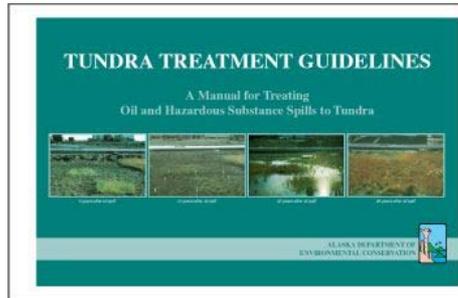
Response Tactics



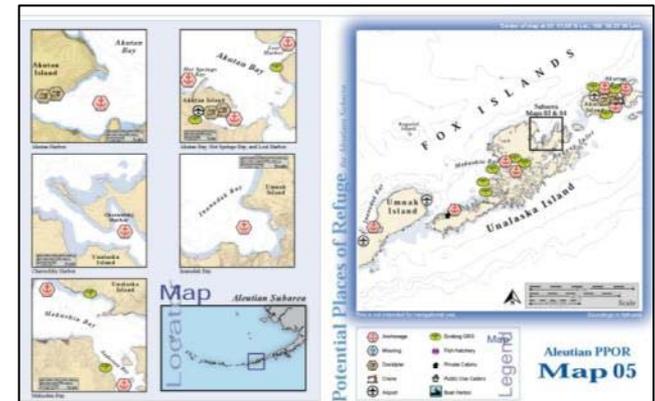
Fisheries/
Water Sampling



Geographic Response Strategies



Tundra Treatment Manual



Potential Places of Refuge

Spill Tactics for Alaska Responders (STAR)

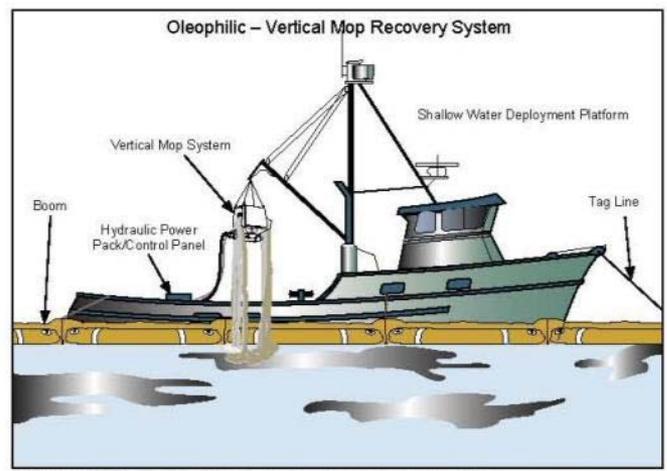
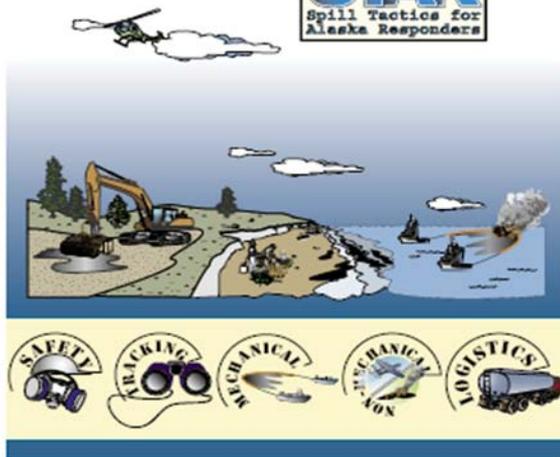


Figure MR-7. Vertical mop recovery system.

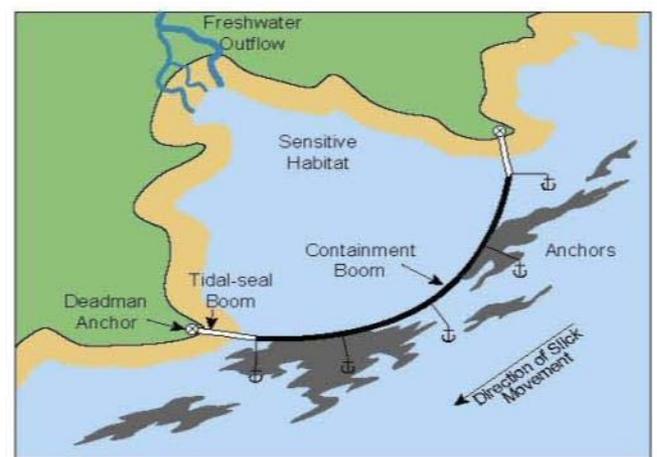


Figure EX-3. Exclusion booming configuration.

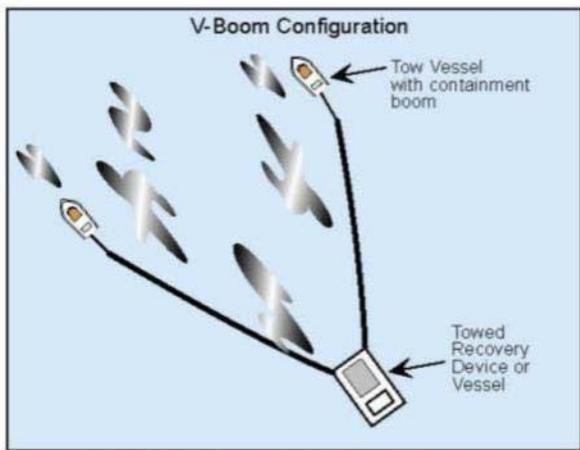


Figure FO-4. V-boom Configuration.

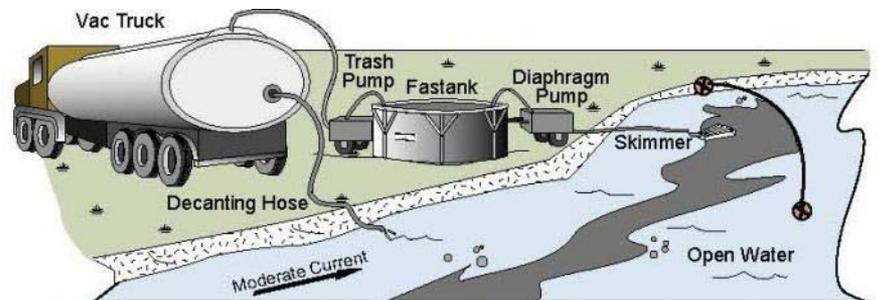
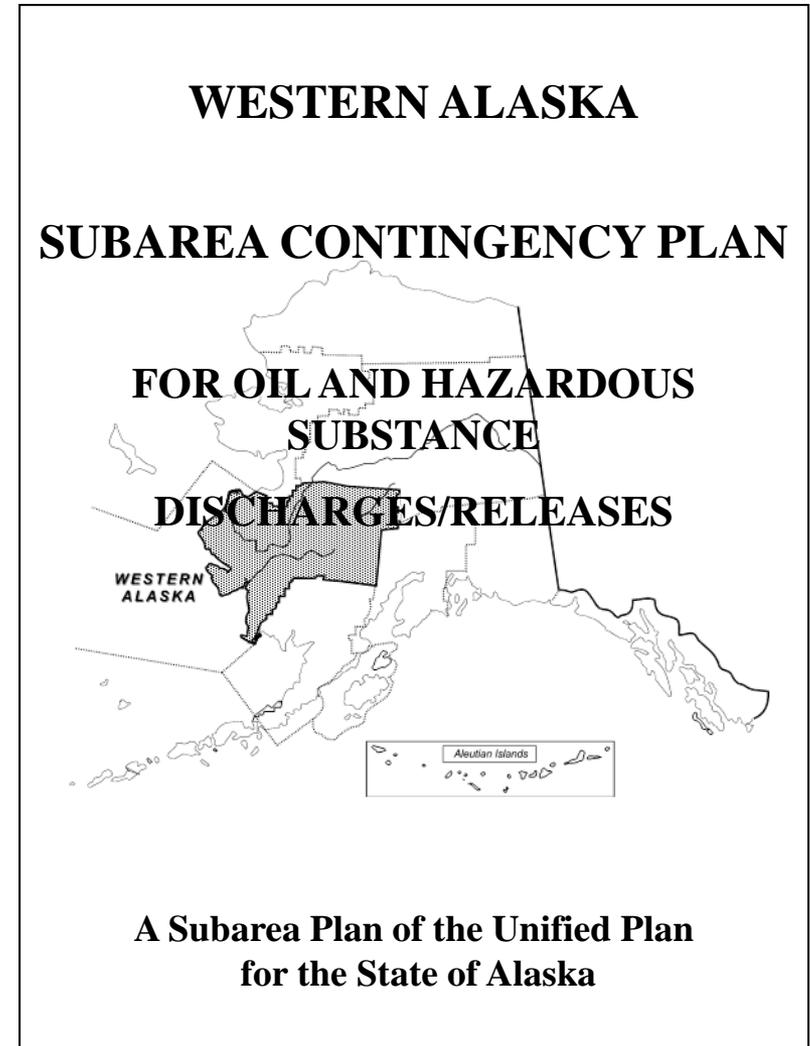


Figure SR-4. Shoreside recovery unit general configuration.

Western Alaska Subarea Plan Schedule

- Agency and Tribal Government Review – Spring 2012
- Public Review – Spring/Summer 2012
- June 2012: GRS and PPOR Sections Completed
- Plan Finalized – Fall 2012





Questions/Discussion

<http://dec.alaska.gov/spar/perp/index.htm>