The Unified Plan and the Northwest Arctic Subarea Contingency Plan

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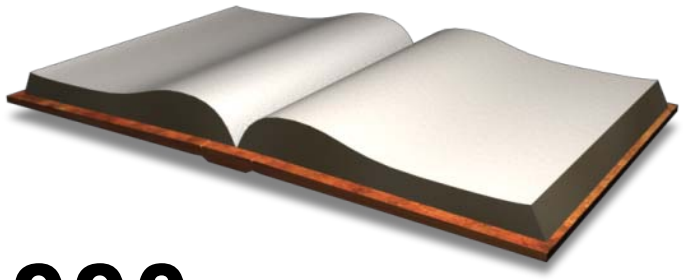
Dept of Environmental Conservation
Spill Prevention and Response Division

Legal Mandates



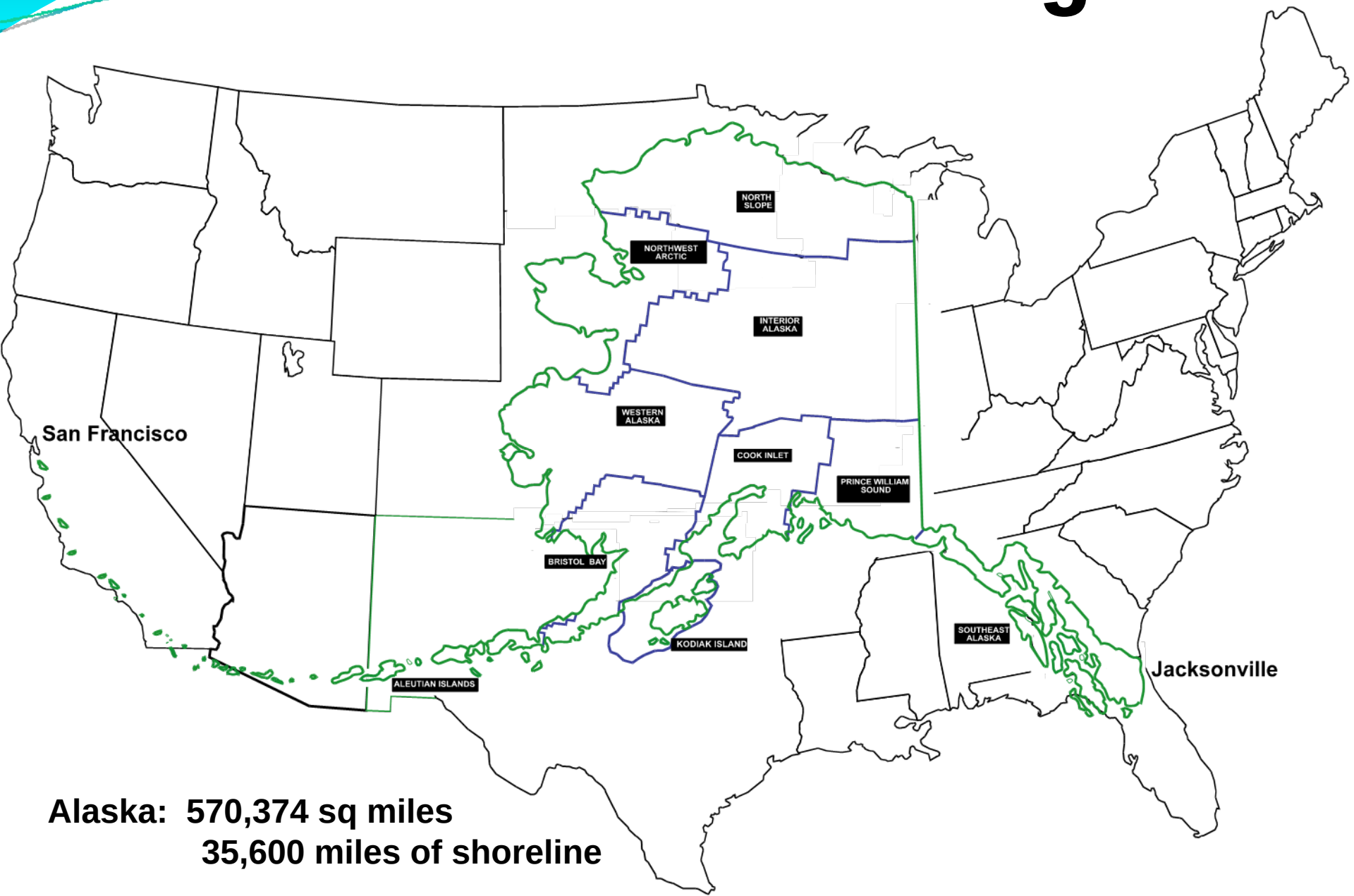
- Oil Pollution Act of 1990
- Clean Water Act
- Alaska Statutes & Regulations

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**

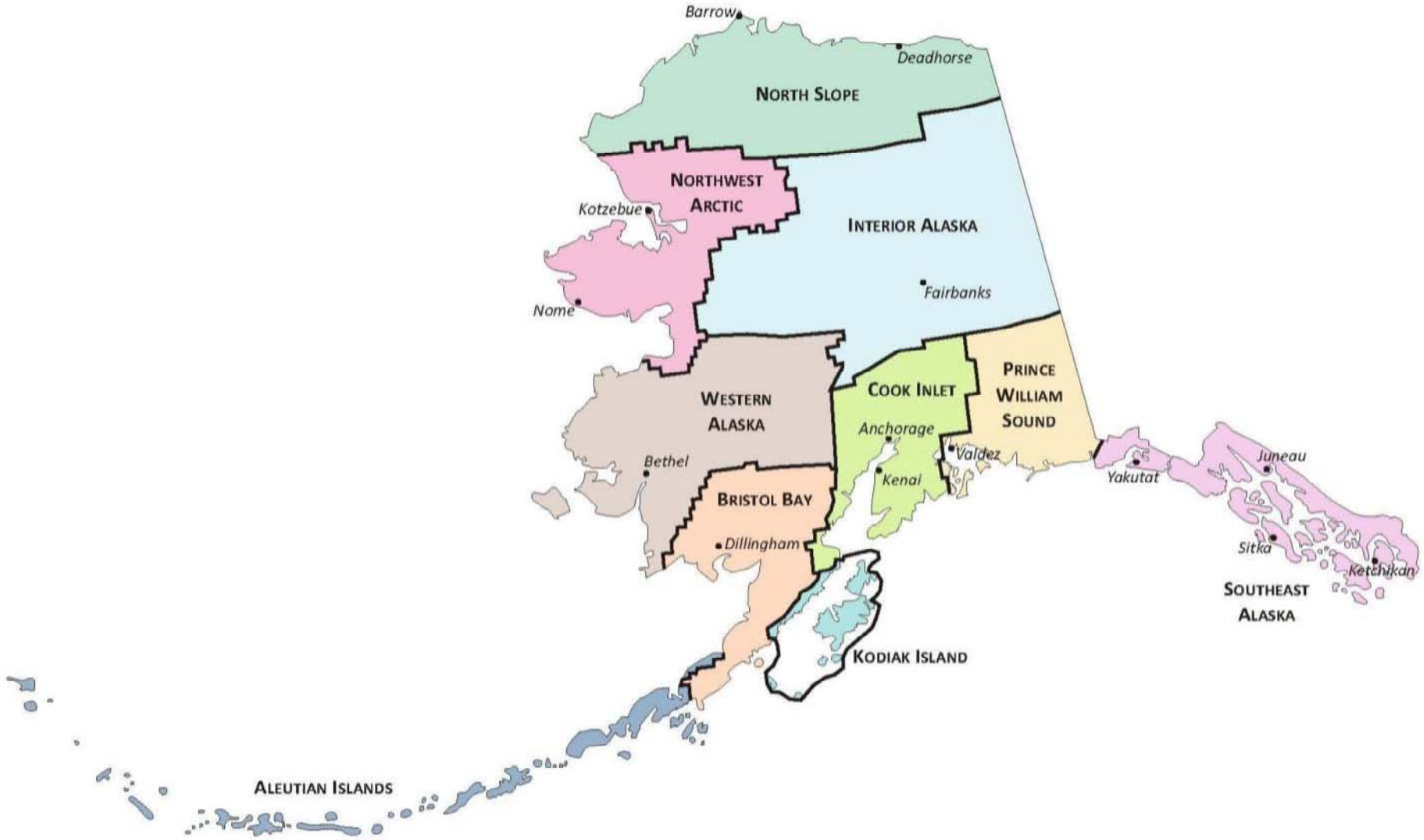
- **The Alaska Statute requires ADEC to develop a State Master Plan and 10 Regional Master Plans for the ten "regions" of the state.**

The Overall Challenge

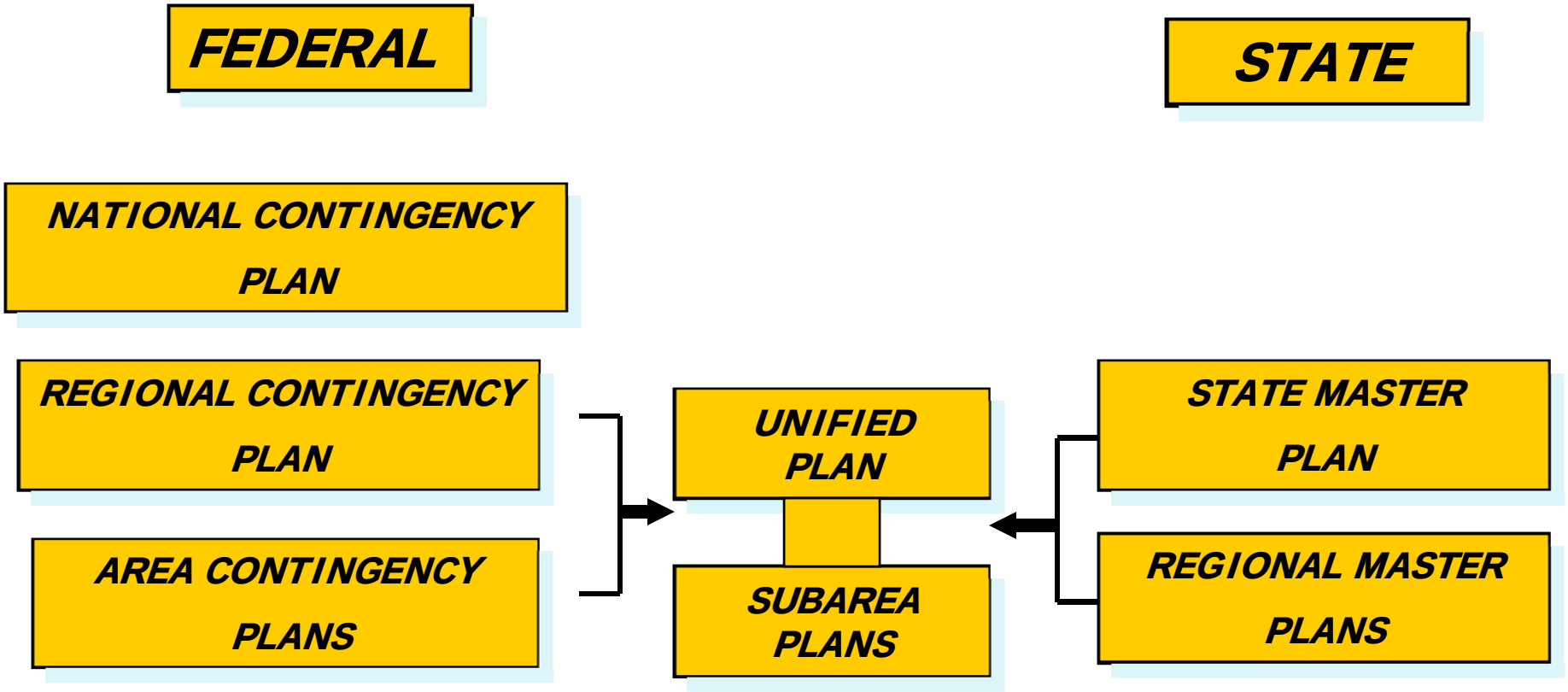


Alaska: 570,374 sq miles
35,600 miles of shoreline

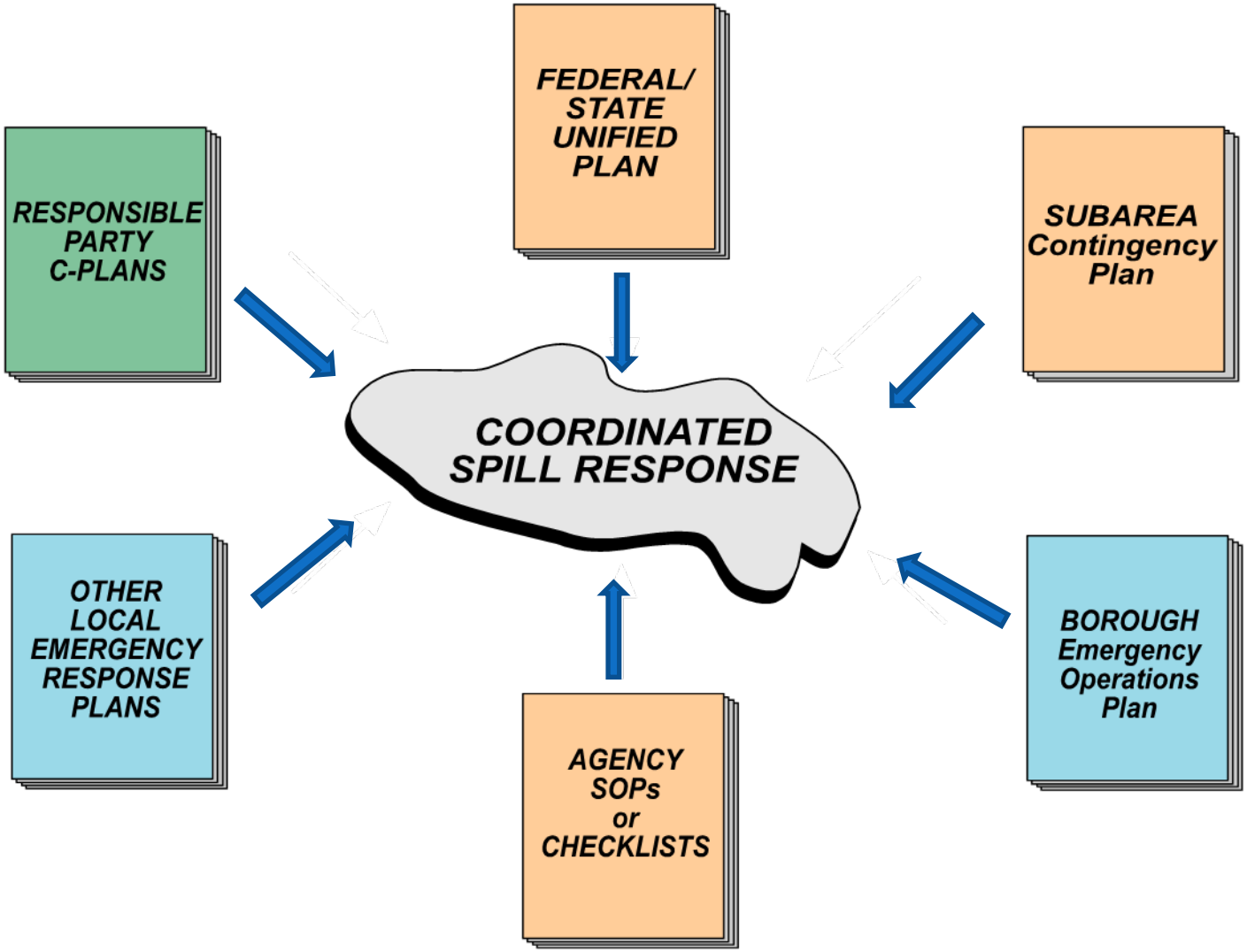
Unified Plan and 10 Subarea Plans

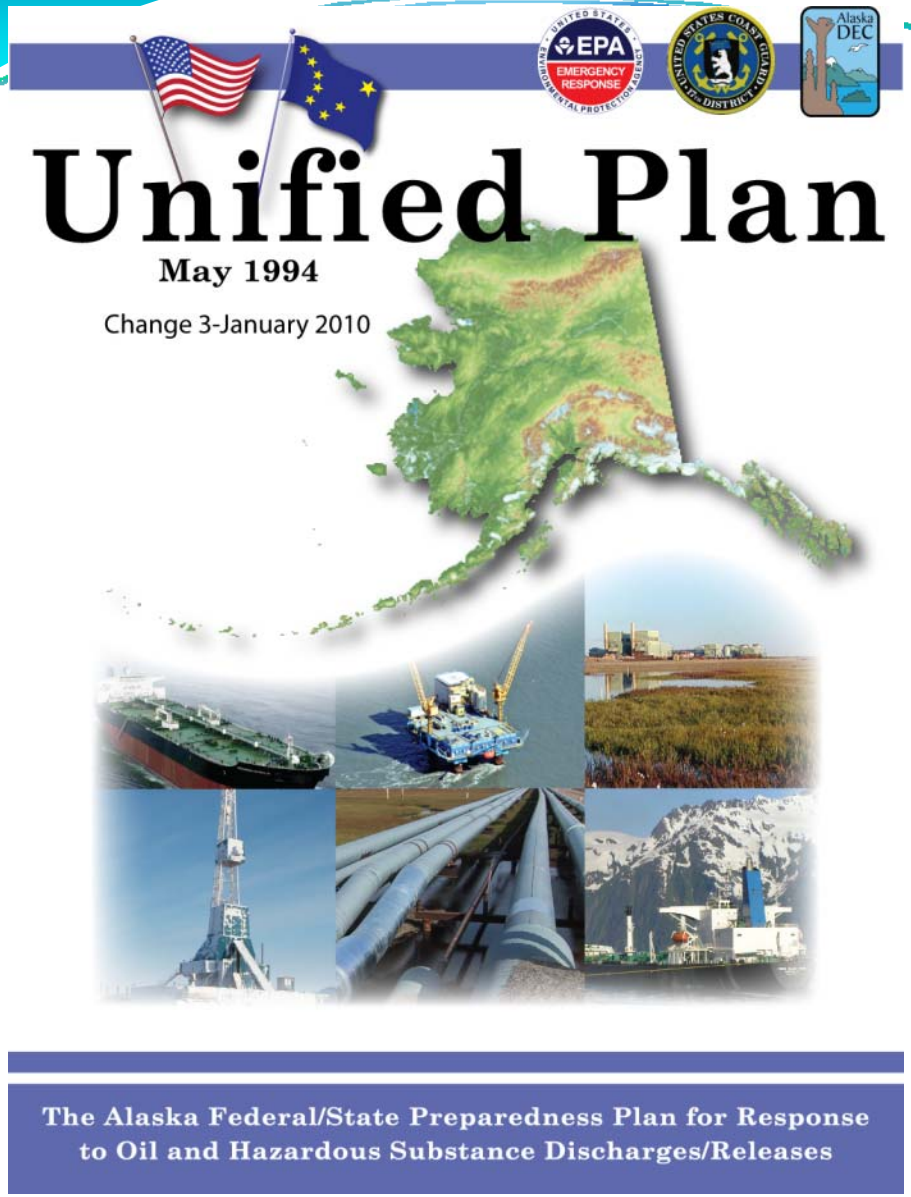


Joint Government Planning in Alaska



Integrated Response

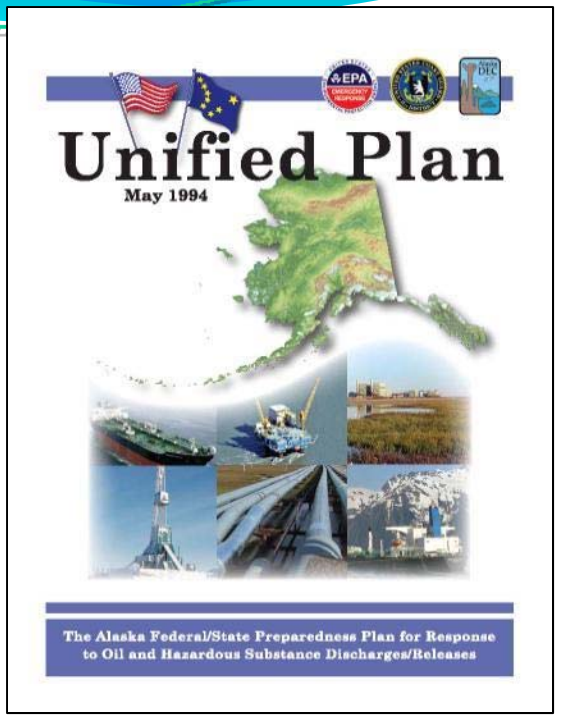




The Alaska Federal/State Preparedness Plan for Response to Oil and Hazardous Substance Discharges/Releases

The Unified Plan

Unified Plan



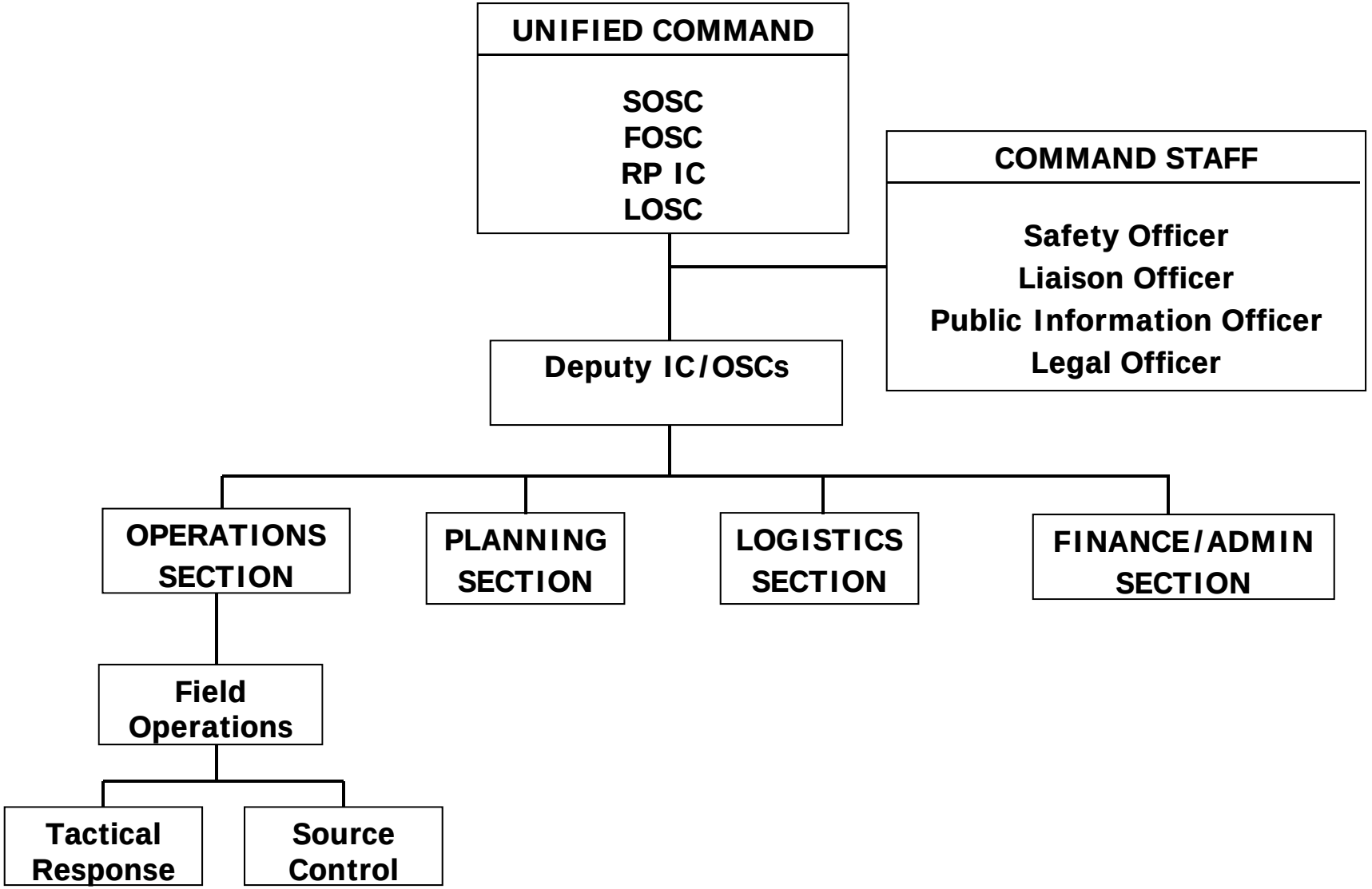
- **Describes the strategy for a coordinated Federal, State, and local response to a discharge, or substantial threat of a discharge of oil or hazardous substance within Alaska.**

- **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

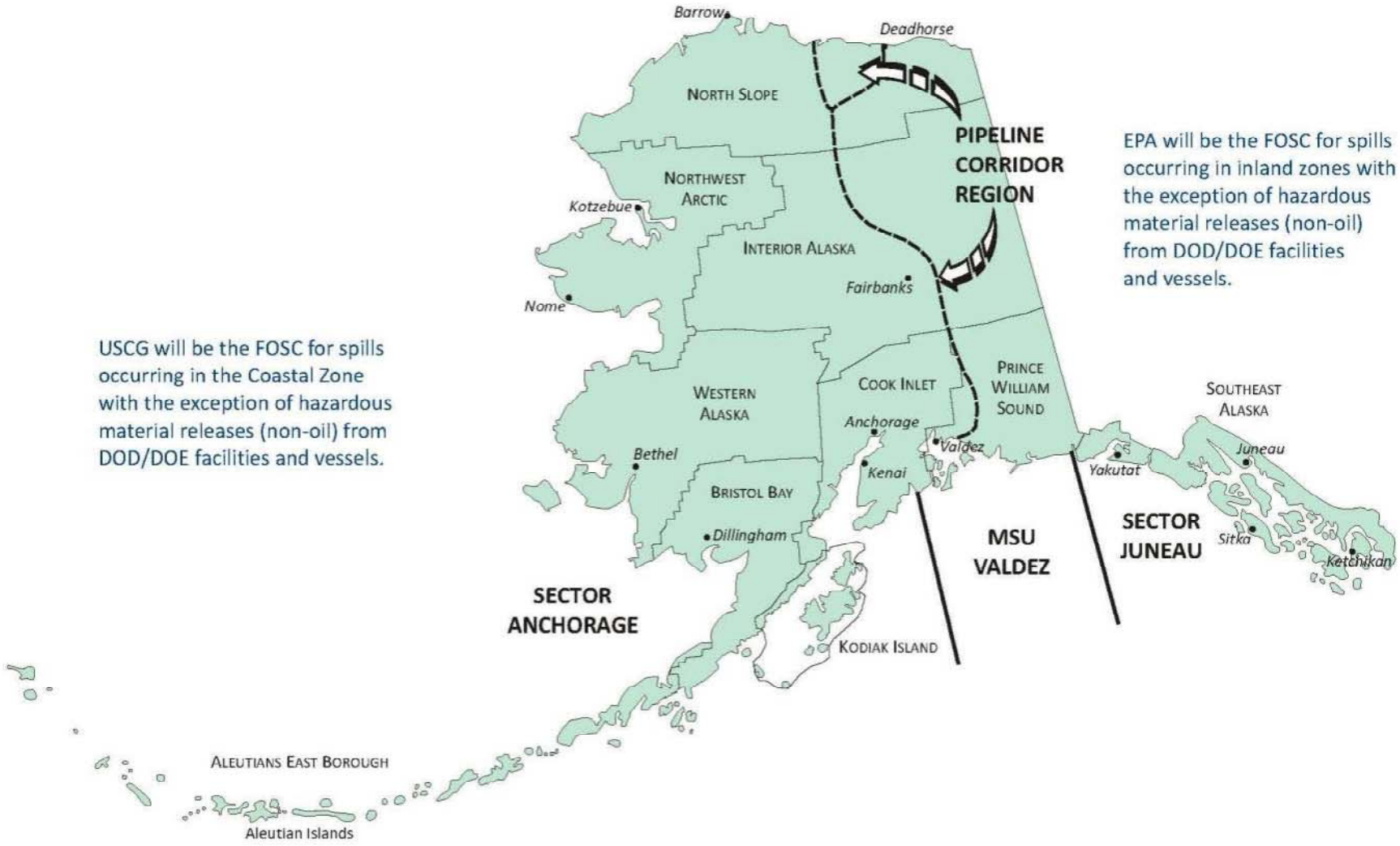
- **Annex A - Introduction**
  - **Summary of legal mandates**
  - **Agency authority during a response.**
- **Annex B – Unified Response Organization**
  - **Intro to the organization and management of spill response – Incident Command System**
  - **Clarification of 'who's in charge?'**
  - **Federal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

Typical Response Organization



The FOSC Areas of Responsibility

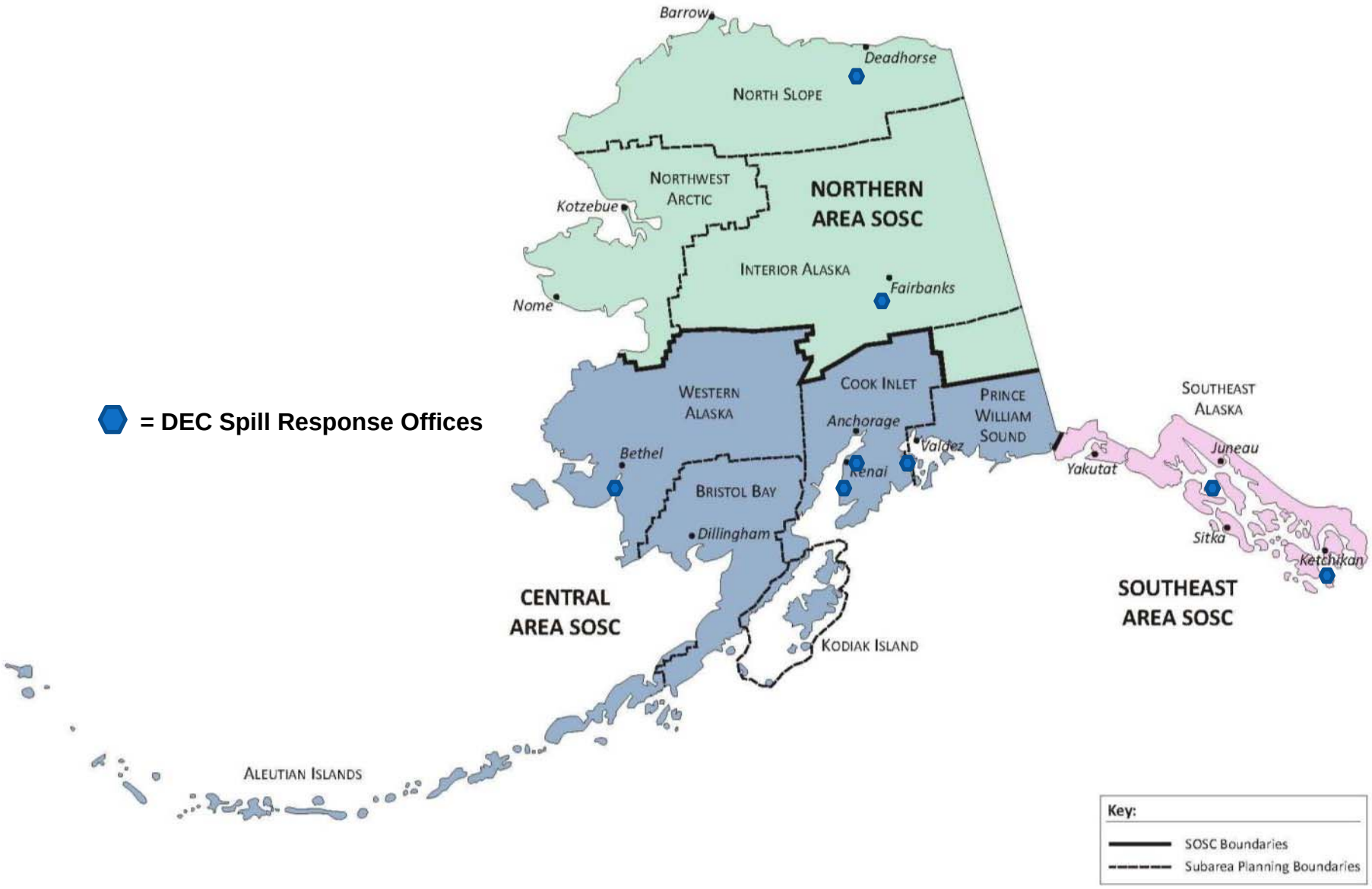
Pre-Designated Federal On-Scene Coordinators (FOSC) – Areas of Responsibility



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 SOSC 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

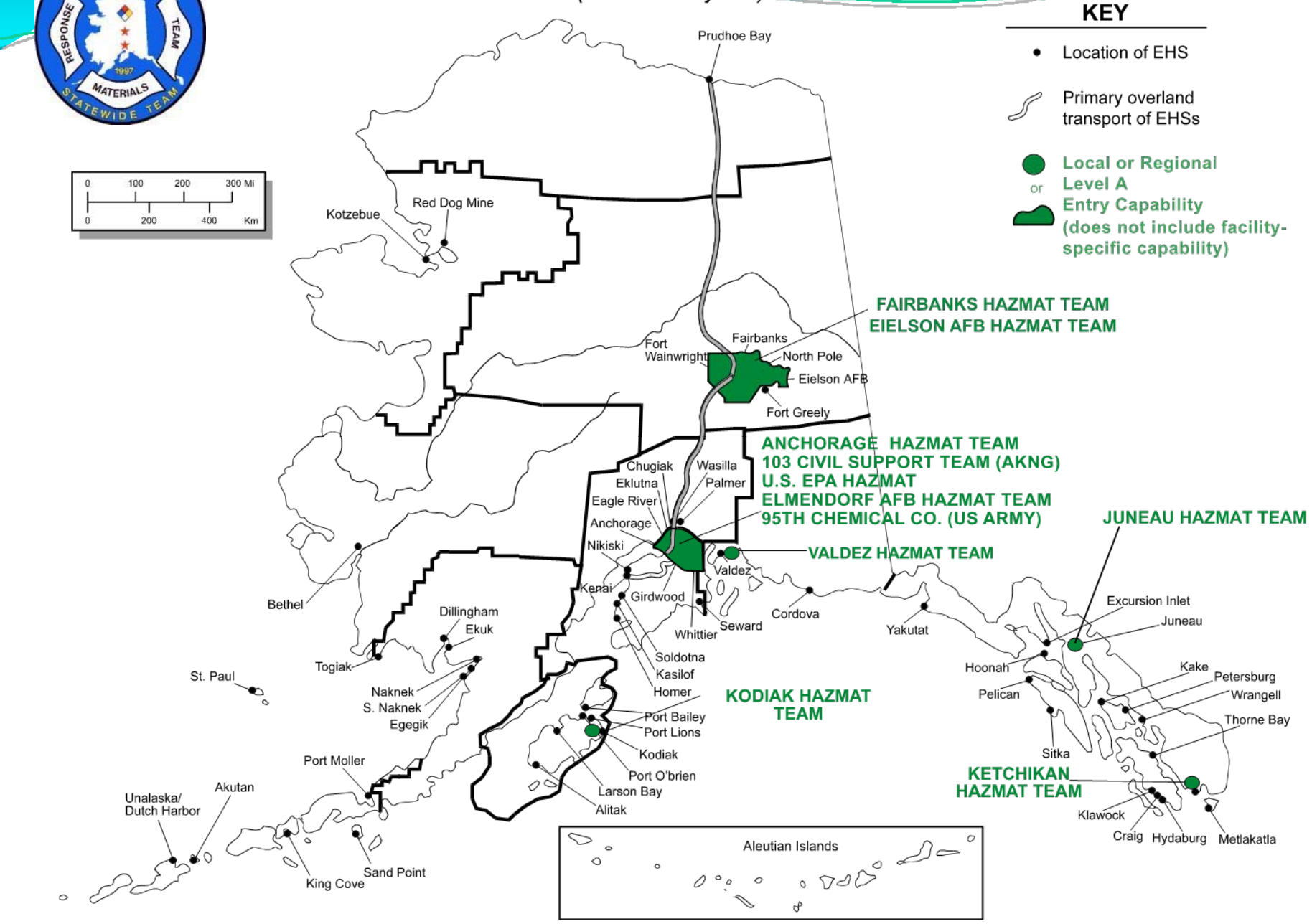
- **Annex F – Chemical Countermeasures**
  - **Dispersants**
    - **ARRT-Approved Guidelines**
    - **Permit Application**
    - **Pre-identified Zones for Prince William Sound and Cook Inlet**
  - **In Situ Burning**
    - **Background**
    - **Permit Application**

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**

HAZMAT Level A Entry Capability

(as of: February 2010)

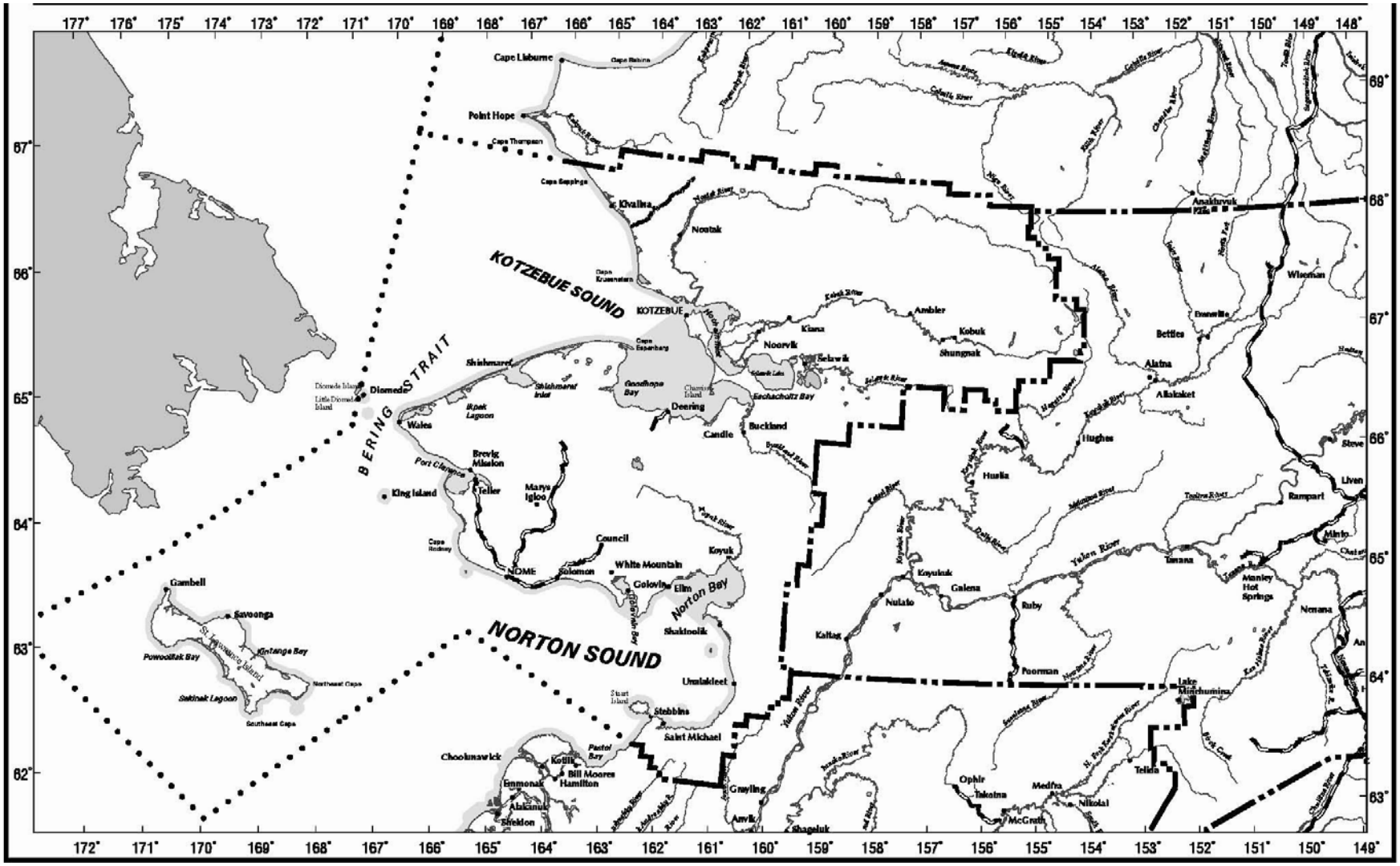


Unified Plan - Overview

- **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 Northwest Arctic Subarea Contingency Plan

The Northwest Arctic 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

Northwest Arctic 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.**

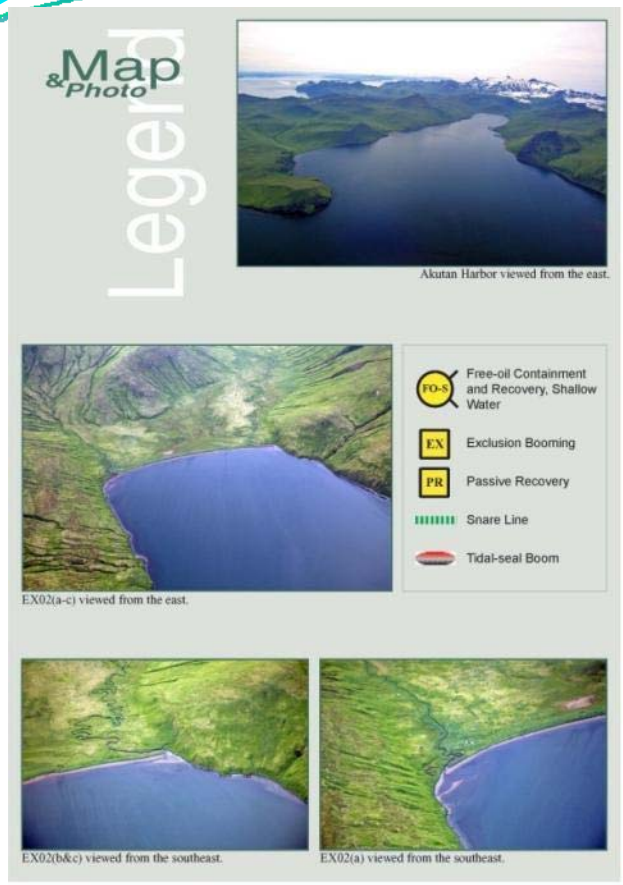
- **Maximum Most Probable Discharge Scenario:**
  - **Based on largest recorded spill for the subarea.**

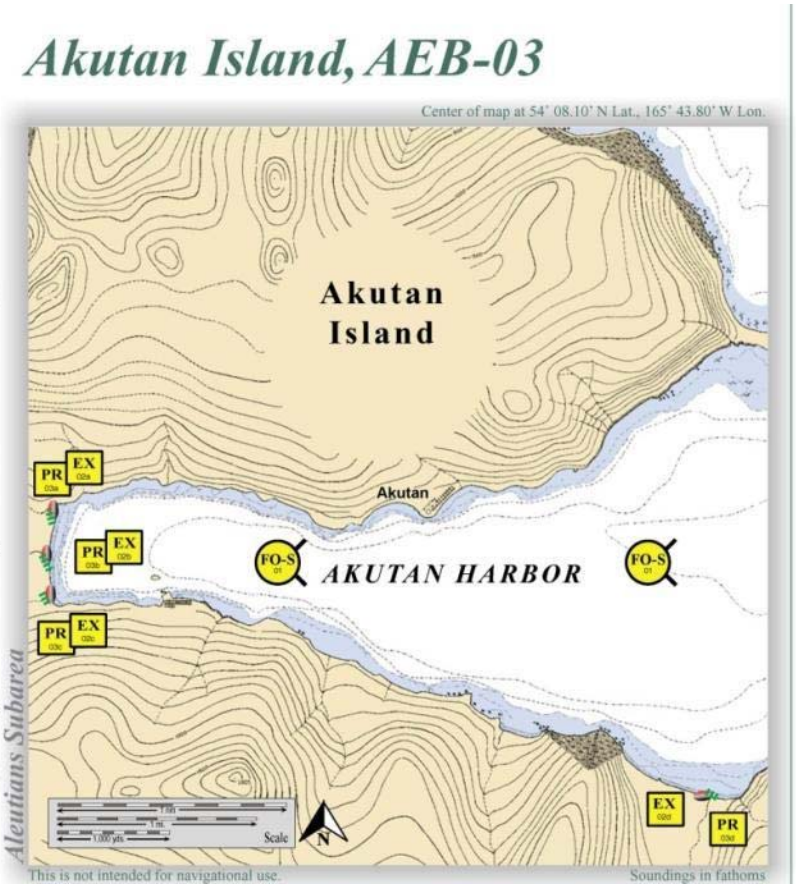
- **Average Most Probable Discharge Scenario:**
  - **Based on the size of the average spill in the subarea.**

Optional Scenario:

- **Hazmat Scenario**

Geographic Response Strategies Section

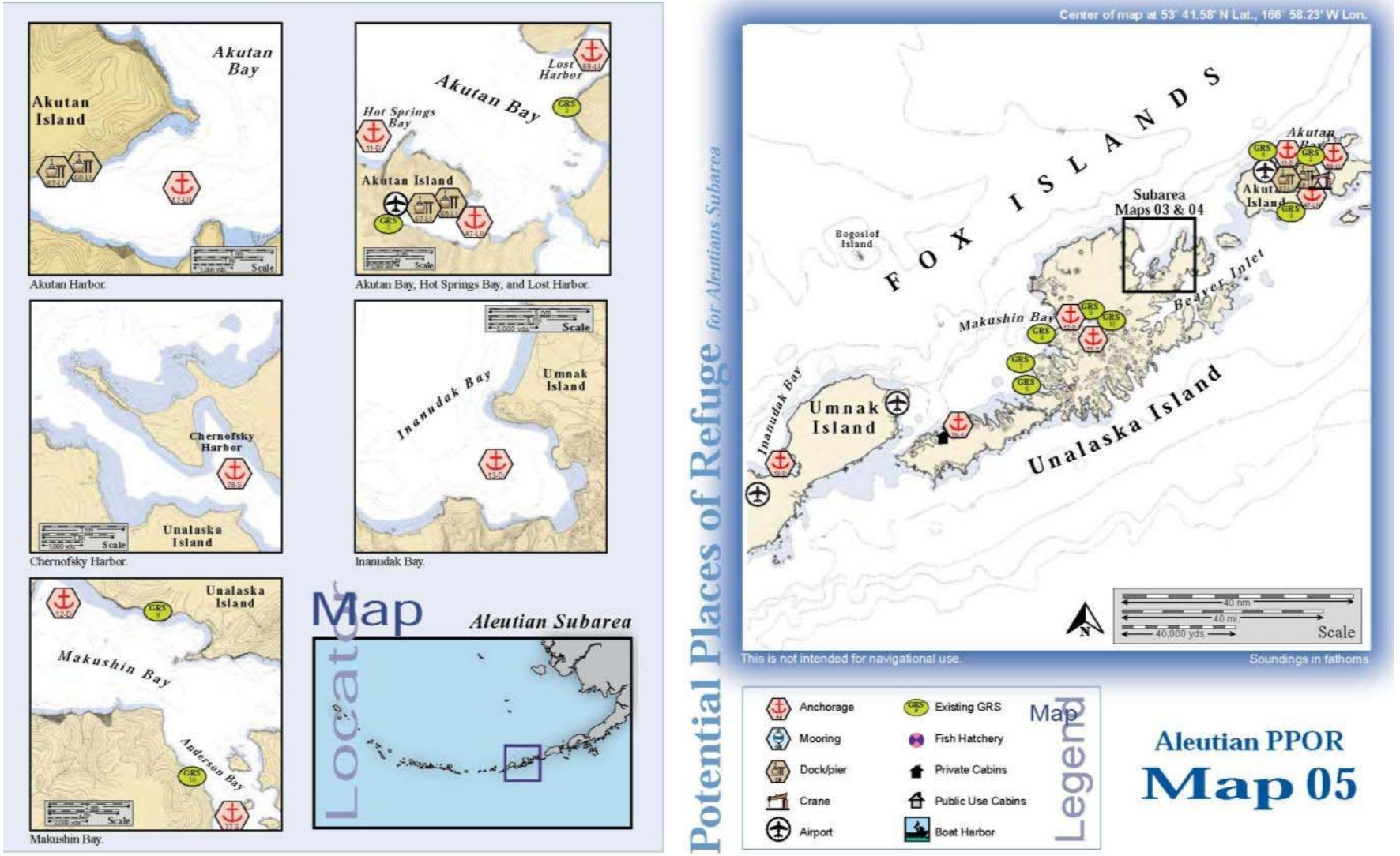




Geographic Response Strategies Section

ID	Location and Description	Response Strategy	Implementation	Response Resources	Staging Area	Site Access	Resources Protected (months)	Special Considerations
AHB-03-01 	Akutan Harbor Nearshore waters in the general area of: Lat. 54° 07.4 N Lon. 165°44.2 W	Free-oil Recovery Maximize free-oil recovery in the offshore & nearshore environment of Akutan Harbor depending on spill location and trajectory.	Deploy free-oil recovery strike teams upwind and up current of Akutan Harbor. 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.	Akutan Harbor.	Via marine waters Chart 16532-1	Same as AHB-03-02	Vessel master should have local knowledge. Use extreme caution, shoal waters with numerous reefs and rocks.
AHB-03-02 	Akutan Harbor a. Lat. 54° 08.02 N Lon. 165°49.36 W b. Lat. 54° 07.92 N Lon. 165°49.39 W c. Lat. 54° 07.64 N Lon. 165°49.39 W d. Lat. 54° 06.77 N Lon. 165°44.39 W	Exclusion Exclude oil from impacting the identified stream and intertidal area in Akutan Harbor.	Deploy anchors and boom with skiffs (class 6) at high tide. Place 100 ft. sections of tidal-seal boom across each stream mouth on the beach behind the storm berm. Tend throughout the tide.	Deployment Equipment 400 ft. tidal-seal boom 4 ea. small anchor systems 16 ea. anchor stakes Vessels 1 ea. class 3 2 ea. class 6 Personnel/Shift 7 ea. vessel crew Tending Vessels 1 ea. class 3/4 2 ea. class 6 Personnel/Shift 5 ea. vessel crew	Vessel platform or Akutan Harbor.	Via marine waters Chart 16532-1	Fish - intertidal spawning - salmon (May-Sept.) Birds - Seabird nesting Marine mammals - otters Human use - Subsistence, commercial fishing Habitat - marsh, exposed tidal flats, gravel beaches, sheltered rocky shoreline	Site not surveyed. Title 41 permitting required from ADNR. Tested: not yet
AHB-03-03 	Akutan Harbor Stream Locations a. Lat. 54° 08.02 N Lon. 165°49.36 W b. Lat. 54° 07.92 N Lon. 165°49.39 W c. Lat. 54° 07.64 N Lon. 165°49.39 W d. Lat. 54° 06.77 N Lon. 165°44.39 W	Passive Recovery Place passive recovery boom at each end of the exclusion booms that extend across the stream.	Once the exclusion booms are deployed, place and anchor 25 ft. snare line or sorbent boom in the upper boom/shore interface on each end. Replace as necessary to maximize the recovery.	Deployment Equipment 200 ft. snare line or sorbent boom 16 ea. anchor stakes Vessels/Personnel/Shift Same as AHB-03-02 Tending Vessels/Personnel/Shift Same as AHB-03-02	Vessel platform.	Via marine waters Chart 16532-1	Same as AHB-03-02	Vessel master should have local knowledge. Use snare line for persistent oils and sorbent boom for non-persistent oils.

Potential Places of Refuge Section



Potential Places of Refuge Section

Site Information for *Aleutian PPOR Map-05*

Site Considerations for PPOR Map 05 of the Aleutian Subarea

	Hot Springs Bay	Makushin Bay	Inanudak Bay	Akutan Harbor	Akutan City Dock	Akutan Cannery	Lost Harbor	Anderson Bay	Chernofsky Harbor
ID Number	**11-D**	**12-D**	**13-D**	**47-LII**	**67-LI**	**68-LI**	**69-LI**	**77-S**	**78-S**
Human Health & Safety									
Communities – distances-nm	Akutan- 4.5	Unalaska- 45	Nikolski- 1	Akutan- 4.5	Akutan- 0.0	Akutan- 0.0	Akutan- 4.5	Unalaska-53	Unalaska-73
Natural Resource Considerations									
Fish & Wildlife	Spawning salmon, Steller's sea lions, seals, sea otters, waterfowl concentrations, seabird and eagle nesting, shorebird concentration		Spawning salmon,seals, sea otters, waterfowl concentrations, seabird and eagle nesting					Spawning salmon, Steller's sea lions, seals, sea otters, waterfowl concentrations, seabird and eagle nesting, shorebird concentration	
Threatened & Endangered Species	Steller's Eider, sea otters and short-tailed albatross are present	Steller's sea lion, sea otters and short-tailed albatross are present	Steller's Eider, sea otters and short-tailed albatross are present					Stellers Eiders, Steller's sea lions, sea otters and short-tailed albatross are present	Steller's Eider, sea otters and short-tailed albatross are present
Sensitive Areas	Designated as a Most Environmentally Sensitive Area (MESA 28a-ADF&G)	Not Designated		Designated as a Most Environmentally Sensitive Area (MESA 28a-ADF&G)	Designated as a Most Environmentally Sensitive Area (MESA 28a-ADF&G)			Not Designated	
Invasive Species-Rats	This area is rat-free	Rats are present	These areas are rat-free	Rats are present			These areas are rat-free	Rats are present	
Other Stakeholder Considerations									
Fisheries	Groundfish, herring, salmon, crab								
Historic Properties	Historic properties are present throughout this area								
Mariculture	None								
Subsistence	Salmon, marine mammals, waterfowl, crab, intertidal	None	Salmon, marine mammals, waterfowl, crab, intertidal	Salmon, marine mammals, waterfowl, crab, groundfish, intertidal				None	
Tourism/Recreation	Recreational use area- sport fishing, kayaking, excursion boats, wildlife viewing								
Waterfront Public Facilities/Parks	Alaska Maritime National Wildlife Refuge-no facilities immediately available			Alaska Maritime National Wildlife Refuge-no facilities immediately available, Small Boat Basin			Alaska Maritime National Wildlife Refuge-no facilities immediately available		
Waterfront Private Facilities	None			Cannery facilities nearby			None		
Response and Salvage Resource Considerations									
Ability to Boom Vessel	Weather dependent								
Geographic Response Strategies	AEB-02- Lost Hbr & Surf Bay, AEB-04 Hot Springs Bay/Open Bight	AEB-09 Mouth of Makushin Bay	AEB-20 Nikolski Bay	AEB-03 Akutan Harbor	AEB-03 Akutan Harbor		AEB-02- Lost Hbr & Surf Bay, AEB-04 Hot Springs Bay/Open Bight	AEB-10 Head of Makushin Bay	None
Closest Alternative Places of Refuge (same sized vessel)	38 nm. to 06-D Wide Bay	43 nm. to 06-D Wide Bay	61 nm. to 14-D Applegate Cove	7 nm. to 11-D Hot Springs Bay	.5 nm. to 68-L I Akutan Cannery	.5 nm to 67-LI Akutan City Dock	7.5 nm to 67-LI Akutan City Dock	43 nm to 78-S Chernofsky Harbor	43 nm to 77-S Anderson Bay

Site ID Number and Vessel Class Classification

D = A deep draft vessel that exceeds 20,000 Gross Tons, has drafts of 25-60 ft. and ranges from 450 ft.-1000 ft. LOA, typical of Tankers/ Cruiseships

LII = A light draft vessel of 10,000 to 19,999 Gross Tons, has drafts up to 25 ft., LOA up to 450 ft., typical of Ferrys/Trampers

LI = A light draft vessel of 300 to 9,999 Gross Tons, has drafts up to 25 ft., LOA up to 450 ft., typical of Ferrys/ Trampers

S = A shallow draft vessel less than 300 Gross Tons, has a draft less than 15 ft., LOA less than 200 ft., typical of Excursion/fishing vessels

Stakeholders for PPOR Map 05 of the Aleutian Subarea

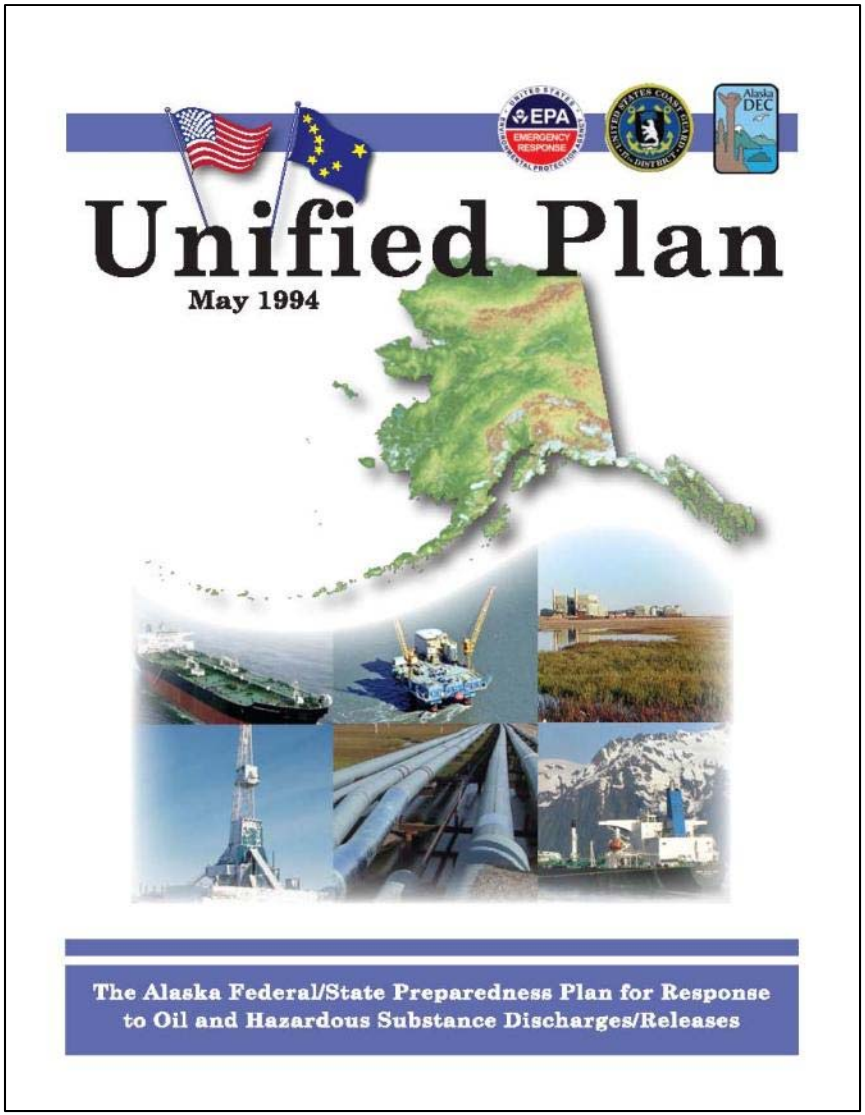
Year-2007	*Contact*
Akutan Corporation	Director
Aleut Corporation	President
Aleutians East Borough	Mayor
Alaska Dept of Fish & Game	Resource Manager
Alaska Department of Natural Resources	Natural Resource Manager
Alaska Maritime National Wildlife Refuge	Dept of the Interior-Regional Environmental Officer
Aleut Marine Mammal Commission	Director
City of Akutan	Mayor
Ounalashka Corporation	CEO
Native Allotments	Dept of the Interior-Regional Environmental Officer

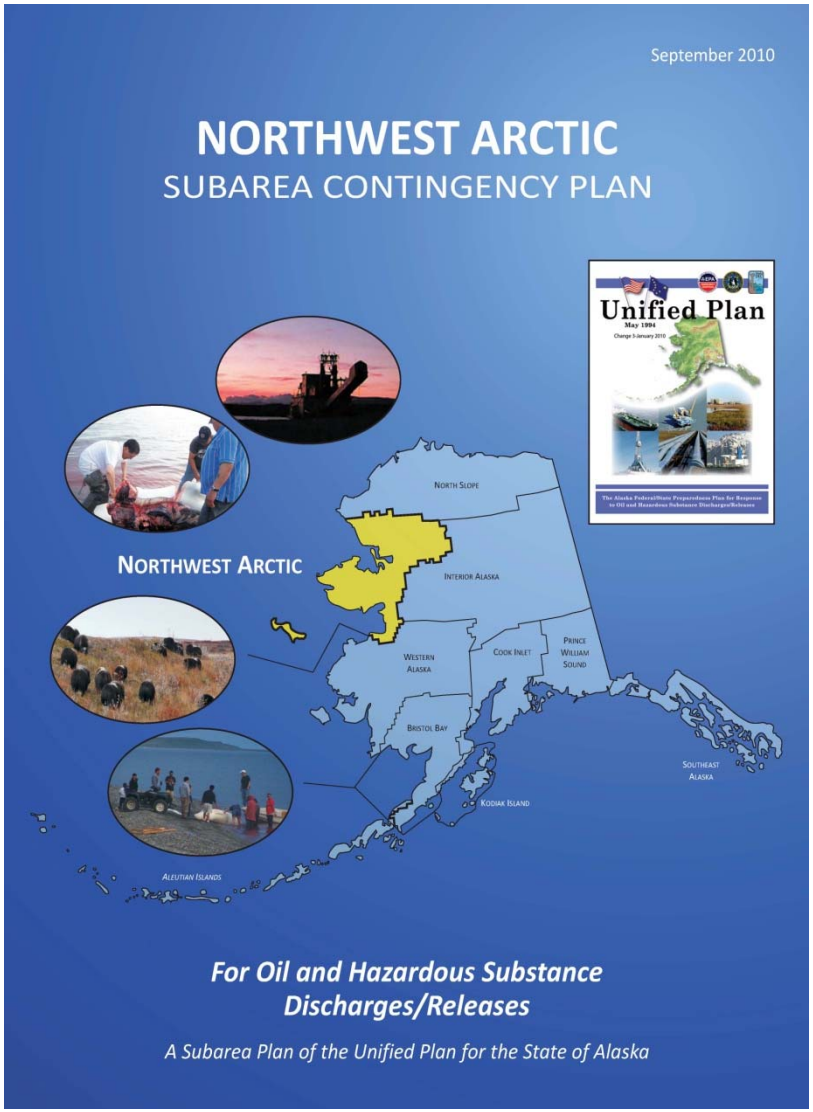
Physical and Operational Characteristics for PPOR Map 05 of the Aleutian Subarea

	Hot Springs Bay	Makushin Bay	Inanudak Bay	Akutan Harbor	Akutan City Dock	Akutan Cannery	Lost Harbor	Anderson Bay	Chernofsky Harbor
ID Number	**11-D**	**12-D**	**13-D**	**47-LII**	**67-LI**	**68-LI**	**69-LI**	**77-S**	**78-S**
Location	54°10.84'N 165°51.04'W	53°45.43'N 166°57.68'W	53°17.68'N 168°25.87'W	54°07.74'N 165°44.03'W	54°07.99'N 165°46.70'W	54°08.00'N 165°46.43'W	54°13.55'N 165°36.78'W	53°40.03'N 166°50.61'W	53°23.92'N 167°30.89'W
Maximum Vessel Size	Deep draft, greater than 20,000 Gross Tons			Light draft-II, 10,000 to 19,999 Gross Tons	Light draft-I, 300 to 9,999 Gross Tons			Shallow draft, 300 Gross Tons or less	
Type of Berthing	Anchorage				Dock		Anchorage		
Contact	N/A				Mayor 907.274.7555	Facility Manager 907.698.2211	N/A		
Navigational Approach	Approach from NE	Approach from W	Approach from the NW	Approach from the E	Approach from the E		Approach from the W	Approach from the NW	Approach from the NE
Minimum Water Depth	20 Fathoms in swing area	36 Fathoms in swing area	30 Fathoms in the swing area	20 Fathoms in the swing area	30 Feet at the dock face	30 Feet at the dock face	60 Feet in the swing area	53 Fathoms in the swing area	60 Feet in the swing area
Maximum Water Depth	22 Fathoms in swing area	38 Fathoms in swing area	20 Fathoms in the swing area	32 Fathoms in the swing area	30 Feet at the dock face	30 Feet at the dock face	22 Fathoms in the swing area	58 Fathoms in the swing area	13 Fathoms in the swing area
Maximum Vessel Draft	60 ft.			35 ft.	28 ft.	25 ft.			
Swing Room/Dock Face	3000 ft.	2800 ft.	6000 ft.	2500 ft.	350 ft.	450 ft.	1200 ft.	2800 ft.	1200 ft.
Bottom Type	Mud, Sand	Mud, Hard	Sand	Mud	N/A		Mud, Sand	Mud	Mud
Docks/Piers	Nearest Alt. Dock 09-D Dutch Harbor APL Dock				Nearest Alt. Dock 68-L Akutan Cannery	Nearest Alt. Dock 67-L Akutan City Dock	Nearest Alt. Dock 67-L Akutan City Dock	Nearest Alt. Dock 61-LI Light Cargo Dock	
Moorings	Nearest Mooring - Wide Bay 06-D								
Anchorages	Nearest Alt. Anchorage-08-D Wide Bay		Nearest Alt. Anchorage-14-D Applegate Cove	Nearest Alt. Anchorage-11-D Hot Springs Bay	Nearest Alt. Anchorage 69-LI Lost Harbor		Nearest Alt. Anchorage 47-LII Akutan Harbor	Nearest Alt. Anchorage- 78-S Chernofsky Harbor	Nearest Alt. Anchorage- 77-S Anderson Bay
Prevailing Winds	Summer-southwest through northwest winds are common. Winter- winds occur from all directions.								
Currents	Local currents are tidally influenced. All passes in the subarea have significant currents								
Tides	Mean High Water-3.6 (Higher- 4.0) , Mean Low Water- 1.3 (Lower- -2.5)	Mean High Water-3.6 (Higher- 4.0) , Mean Low Water- 1.3 (Lower- -2.5)	Mean High Water-3.3 (Higher- 3.7) , Mean Low Water- 1.1 (Lower- -2.5)	Mean High Water-3.7 (Higher- 3.9) , Mean Low Water- 1.3 (Lower- -2.5)	Mean High Water-3.7 (Higher- 3.9) , Mean Low Water- 1.3 (Lower- -2.5)			Mean High Water-3.6 (Higher- 4.0) , Mean Low Water- 1.3 (Lower- -2.5)	Mean High Water-3.5 (Higher- 3.8) , Mean Low Water- ---- (Lower- -2.5)
Sea Conditions	Exposed to seas from N-S	Exposed to seas from S-W	Exposed to seas from N-W	Exposed to seas from SE-SW			Exposed to seas from the SW-W	Sheltered from extreme sea states	
Shelter from Severe Storms	Sheltered from storms from S-NW	Sheltered from storms from NW-S	Sheltered from storms from N-SW	Sheltered from storms from S-N			Sheltered from storms from NW-SW	Sheltered from all but extreme storms	
Fog	Fog is common during all seasons								
Sea ice	Sea ice unlikely								

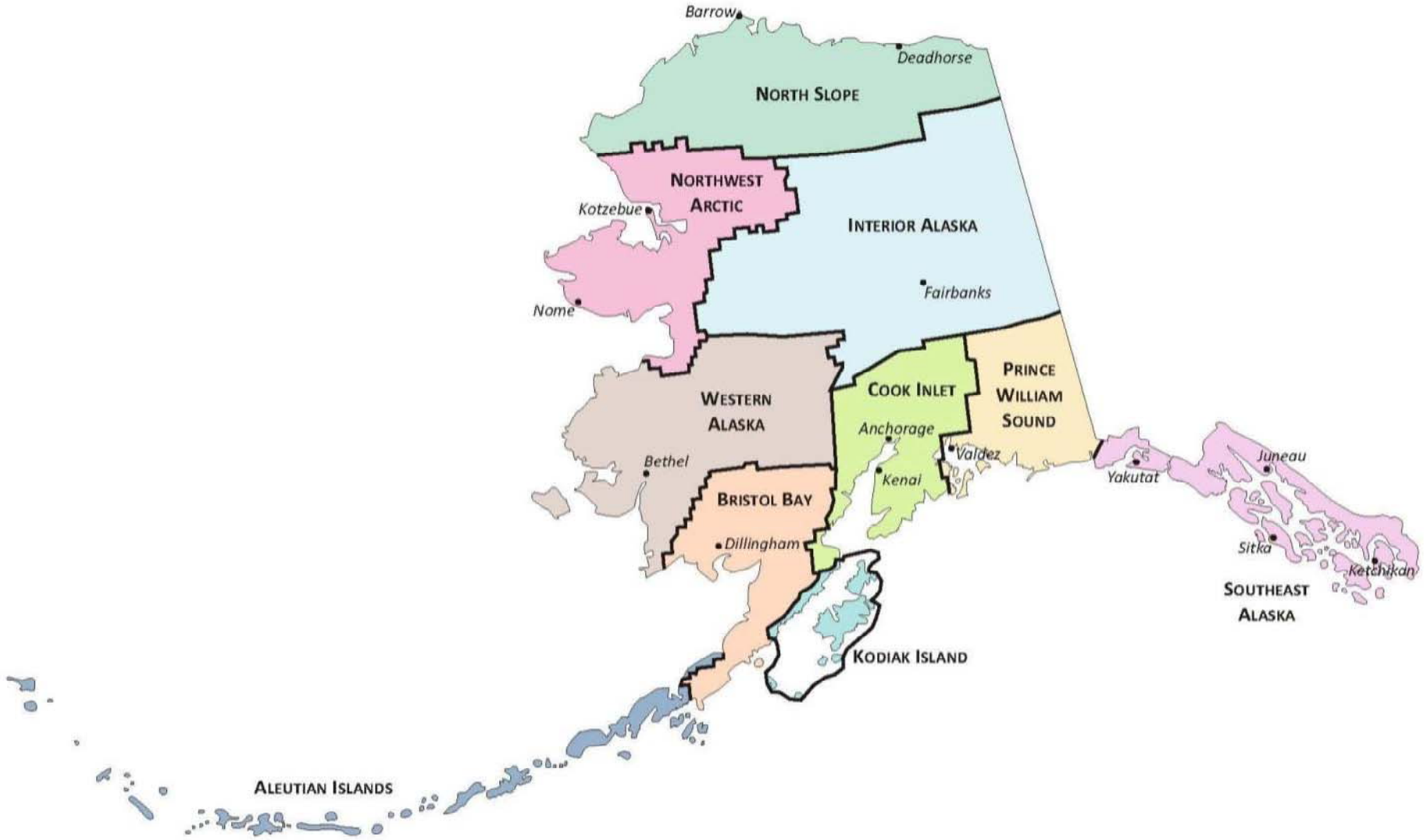
NOTE: Sensitive resource information can be found on other maps which can be accessed through the sensitive area section of the Aleutian Subarea Contingency Plan: http://www.akrrt.org/AIPlan/aitoc.shtml

Key Federal/State Plans

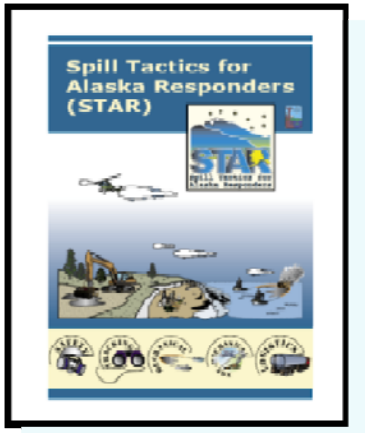




Unified Plan and 10 Subarea Plans



Supporting Documents

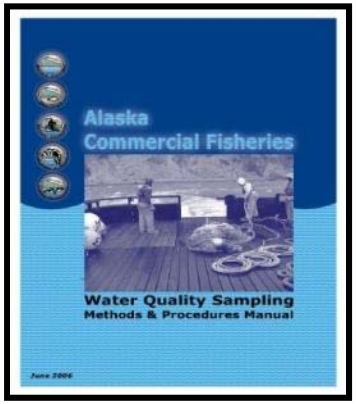


Response Tactics

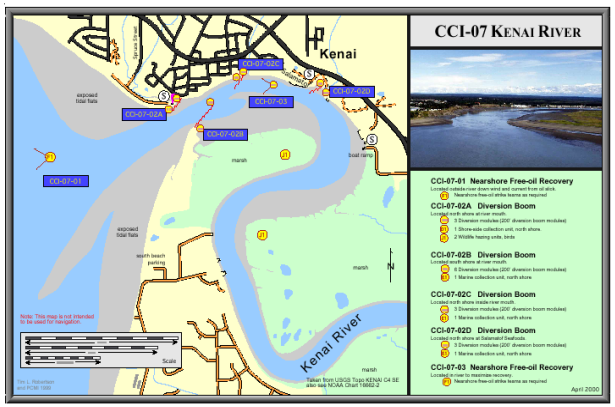
Alaska Incident Management System Guide

(AIMS)

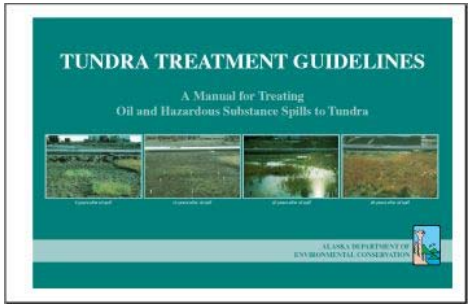
For Oil and Hazardous Substance Response



Fisheries/
Water Sampling



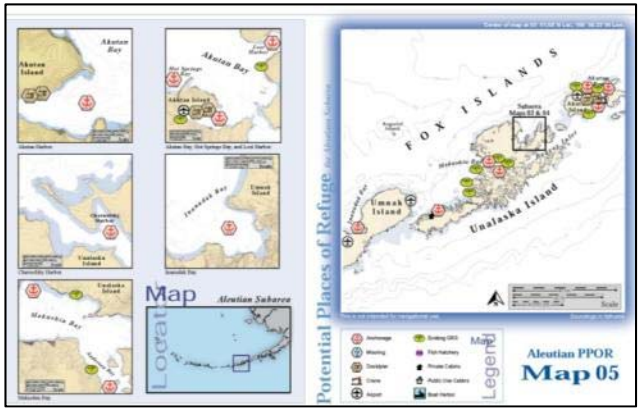
Geographic Response Strategies



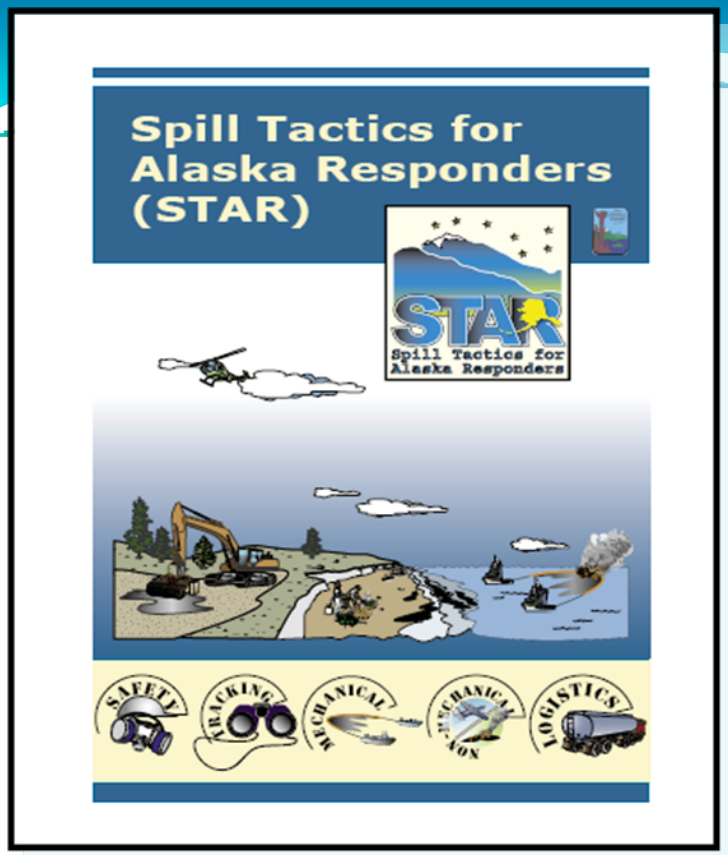
Tundra Treatment Manual

Permits Tool

GRIN Tool



Potential Places of Refuge



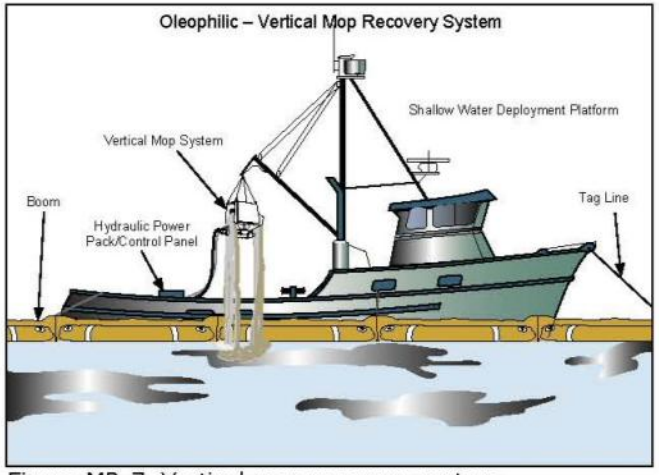


Figure MR-7. Vertical mop recovery system.

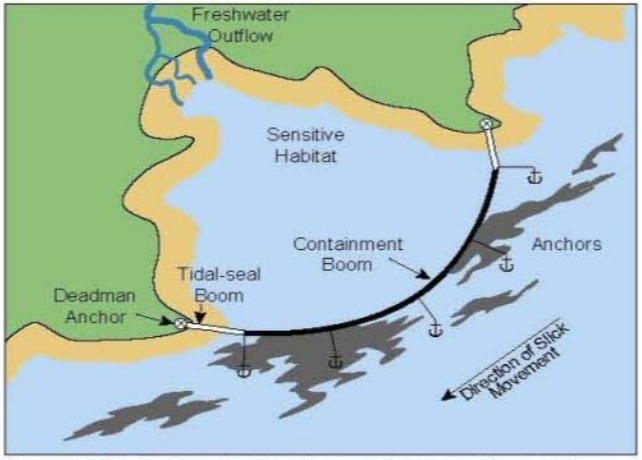


Figure EX-3. Exclusion booming configuration.

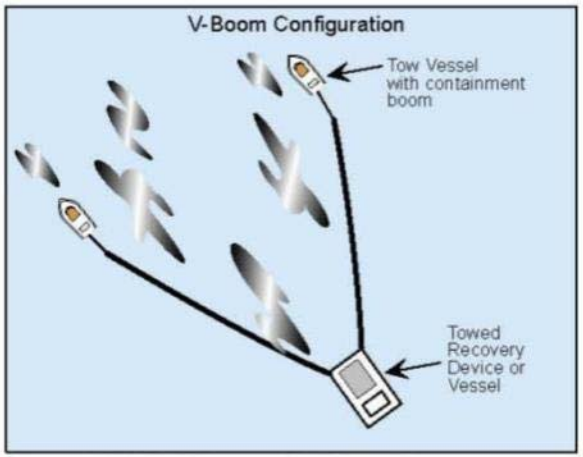


Figure FO-4. V-boom Configuration.

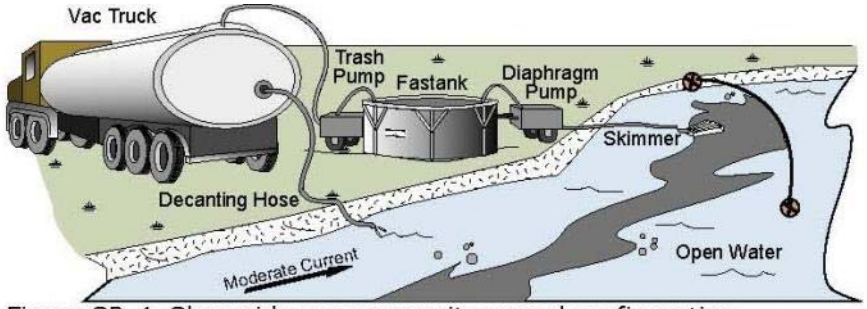


Figure SR-4. Shoreside recovery unit general configuration.

Questions/Discussion

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