

# **Southeast Alaska Subarea- Potential Places of Refuge**

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# Southeast Alaska Subarea Potential Places of Refuge Project

- Introduction
- PPOR in the Southeast Alaska Subarea Plan
- Work Group Process
- Goals and Objectives
- Web site
- Public Review

# Introduction



- The *T/V Prestige* incident in Spain raised the issue
- Alaska Regional Response Team Workgroups
  - Decision-making Guidelines
  - Pre-incident Planning

# Introduction

- 1996 Perl Island Drill
- 1997 Barge Oregon Incident
- 2003, 2004 Prince William Sound Tanker Drills
- 2004 Ferry LeConte
- 2004 M/V Selendang Ayu
- 2006 T/V SeaBulk Pride
- 2006 M/V Cougar Ace



# Introduction



Photo Credit-Unified Command

- There are no pre-designated places of refuge
- A place of refuge is selected on an incident specific basis
- Potential sites are identified and relevant info is collected

# Introduction

## Southeast Alaska Subarea



# Workgroup Process- Potential Places of Refuge

- Stakeholders
- Governments
- Resource Agencies
- Spill Response Organizations
- Mariners
- Landowners
- General Public



Photo Credit-Unified Command

# Potential Places of Refuge Workgroup Process

Alaska PPOR Workgroups have included:

- Alaska Department of Environmental Conservation,
- Alaska Department of Natural Resources,
- Alaska Department of Fish and Game,
- Alyeska Pipeline Service Company,
- Alaska Marine Pilots
- City Governments,
- Cook Inlet Regional Citizens Advisory Council,
- Environmental Protection Agency (EPA),
- Borough governments,
- Native Governments
- National Oceans and Atmospheric Administration (NOAA),
- Prince William Sound Regional Citizens' Advisory Council,
- Southwest Alaska Pilots Association,
- U.S. Coast Guard, District 17, and
- U.S. Department of the Interior
- Local Citizens

# Potential Places of Refuge- Pre-incident Planning

- Identify information needed to assist decision makers during an incident
- Discuss and gather information regarding use-conflicts outside of crisis situation
- Obtain local knowledge to understand capabilities, limitation, impacts
- Identify potential sites acceptable/least offensive to all

# The Workgroup identifies and confirms information regarding :

- Environmental & economic risks
- Port requirements
- Available response & repair resources
- Water depths, tides, currents, seasonal conditions

# Vessel Considered for PPOR

*February, 2007 Draft for Cook Inlet PPOR Workgroup*

**Deep Draft Vessels** are vessels that exceed 20,000 Gross Tons. These vessels have drafts of 25 to 60 feet and range in size from 450 to 1,000 feet long. Cruiseships and container ships and tank vessels are the predominant deep draft vessels operating around Cook Inlet.

**Light Draft Vessels** are vessels of 300 to 19,999 Gross Tons. These vessels have drafts of up to 25 feet and range in size from 200 to 450 feet in length. Freighters, catcher processors, and ferries are the most common light draft vessels operating in Cook Inlet.

**Shallow Draft Vessels** are less than 300 Gross Tons, generally draw less than 15 feet and are less than 200 feet in length. Fishing vessels, fishing tenders, tour boats, and pleasure craft make up the majority of the shallow draft vessels operating in Cook Inlet.

# Goals & Objectives

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AIEB-2 PPOR	

# Site Assessment Matrix

## Aleutian Subarea Potential Places of Refuge

PPOR ID# (number side)	Type of berth	Overview Map #	Location Name	Lat.	Lon.	Anchoring Swing/Boom or Dock Face(w/ Dors/Wings) in ft.	Depth MLLW in fathoms (approach)	Max Vessel Depth	Bottom Type	Exposure to	Conflicting Uses	Ability to Boom	CRS#	Sensitive Resources	Dist. to Population Center(s) in mi	Dist. to PPOR
<b>Potential Places of Refuge for DEEP DRAFT large vessel exceeding 20,000 Gross Tons</b>																
01-D	A	AIEA-01	Stepovak Bay	55°47.57N	159°45.26W	6000	37	60	M,S	S,SE	CF	N	No	E	42 to SP	42 to 02-D
02-D	A	AIEA-01	Salboa Bay	55°32.08N	160°36.75W	6000	38	60	M,Sh	S,W	CF	N	No	E	15 to SP	42 to 01-D
03-D	A	AIEA-02	Isatan Bay	54°46.38N	163°15.06W	5400	33	60	S,M	W	CF	WD	No	E	8 to FP	26 to 04-D
04-D	A	AIEA-02	Otter Cove	54°42.13N	163°21.48W	6200	26	60	gy,S	S	CF	WD	No	E	34 to FP	26 to 03-D
05-D	A	AIEA-02	Slime Banks/Urta Bay Anchorage	54°58.76N	164°18.12W	6000	18	60	S,Sh,gy	N,E,W	CF	WD	No	E	44 to FP	105 to 06-D
06-D	A	AIEB-01	Wide Bay	53°56.94N	166°36.69W	900	30	60	S,H,xy	S	CL,R,S	WD	AIEB-13	H, MESA 28b, E	4.5 to UAA	1.5 to 09-D
07-D	A	AIEB-01	Broad Bay	53°55.50N	166°37.75W	1800	38	60	M	S,SW	CL,R,S	WD	AIEB-13	H, MESA 28b, E	4 to UAA	1.5 to 08-D
08-D	A	AIEB-01	Captain's Bay	53°51.55N	166°34.64W	3000	45(14)	60	M	None	CL,R,S	WD	AIEB-13,16	H, MESA 28b, E	1 to UAA	5 to 09-D
09-D	A	AIEB-01	Summer Bay	53°54.85N	166°27.42W	1800	9	50	Rky	N,NW	CL,R,S	WD	AIEB-19	H, MESA 28b, E	3 to UA	3 to 06-D
10-D	D/P	AIEB-01	Dutch Harbor-APL dock	53°53.02N	166°31.86W	540 (965)	7.5(7)	40	N/A	None	CL, R	Y	AIEB-17	H, MESA 28b, E	0.0 to UA	1.5 to 11-D
11-D	D/P	AIEB-01	Dutch Harbor-IMC/USCG Wharf Positions #1-7	53°54.12N	166°31.76W	1420 ft.	7	24-39	N/A	None	CL, R	Y	AIEB-17	H, MESA 28b, E	0.0 to UA	1.5 to 10-D
12-D	A	AIEB-02	Hot Springs Bay	54°10.84N	169°51.04W	3000	25	60	M,S	N, NE	CF,R,S	WD	AIEB-04	H, MESA 28b, E	8 to AN	36 to 08-D
13-D	A	AIEB-02	Makushin Bay	53°45.43N	166°57.68W	2800	36	60	hd, M	W, SW	CF	WD	AIEB-09	E	52 to UA	47 to 08-D
14-D	A	AIEB-02	Inanukak Bay	53°17.68N	168°25.87W	6000	32	60	bk, S	NW	CF	N	AIEB-20	E	1 to NI	60 to 15-D
15-D	A	AZWA-01	Applegate Cove	52°52.24N	169°53.62W	4200	34	60	S	N	CF	WD	No	MESA 29, E	38 to NI	17 to 16-D
16-D	A	AZWA-01	South Cove	52°48.28N	169°51.10W	3000	44	60	Rky	S	CF	WD	No	MESA 29, E	40 to NI	17 to 15-D
17-D	A	AZWA-01	Nazan Bay-1	52°12.12N	174°06.35W	6000	43	60	M,S	E	CF,R,S	N	No	E	3.5 to AA	125 to 15-D
18-D	A	AZWA-02	Sand Bay	51°58.58N	176°07.97W	4200	25	60	S,M,rky	W	CF	WD	No	E	20 to AK	17 to 19-D
19-D	A	AZWA-02	Kuluk Bay	51°53.10N	176°34.51W	6000	40	60	S	E	CF, CL, R	WD	No	E	2.5 to AK	17 to 18-D
20-D	A	AZWA-02	North Kanaga Island	51°46.46N	177°25.05W	3000	40	60	S	N,W	CF	WD	No	E	60 to AK	47 to 21-D
21-D	A	AZWA-02	Tanga Bay	51°44.50N	178°01.83W	6000	25	60	G	W	CF	WD	No	E	110 to AK	47 to 20-D
22-D	A	AZWB-02	Sarna Bay-Attu Island	52°52.84N	173°21.19E	6000	34	60	S, hd	N, E	CF	No	No	E	16 to AU	26 to 25-D
23-D	A	AZWB-02	Abraham Bay-Attu Island	52°50.55N	173°40.89E	4800	28	60	Rky, G	S,SW	CF	No	No	E	25 to AU	39 to 22-D
24-D	A	AZWB-02	Otkrbi Bay-Agattu Island	52°21.67N	173°33.88E	3600	18	60	S, Sh	S,E,W	CF	No	No	MESA 33, E	38 to AU	22 to 25-D
25-D	A	AZWB-02	Binnacle Bay-Agattu Island	52°30.11N	173°33.04E	3000	28	60	Rky	N,W	CF	No	No	MESA 33, E	24 to AU	22 to 24-D
26-D	A	AZPB	North Point- St. Paul	57°14.84N	170°12.88W	3600	10	50	S,Rky	N,NE,W	CF,R,S	WD	No	MESA 37, E	18 to SP	4.5 to 27-D
27-D	A	AZPB	Sea Lion Point-St. Paul	57°14.22N	170°04.71W	1500	10	50	S	N,E,S	CF, CL, R, S, A	WD	No	MESA 37, E	14 to SP	4.5 to 26-D

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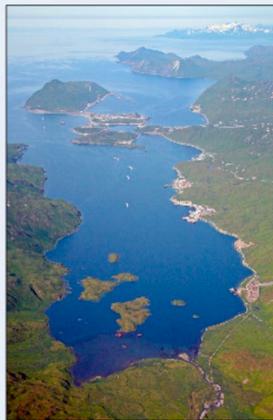
# Map Page



Wide Bay and Broad Bay viewed from the north.



Iliulik Harbor and Captains Bay viewed from the north.

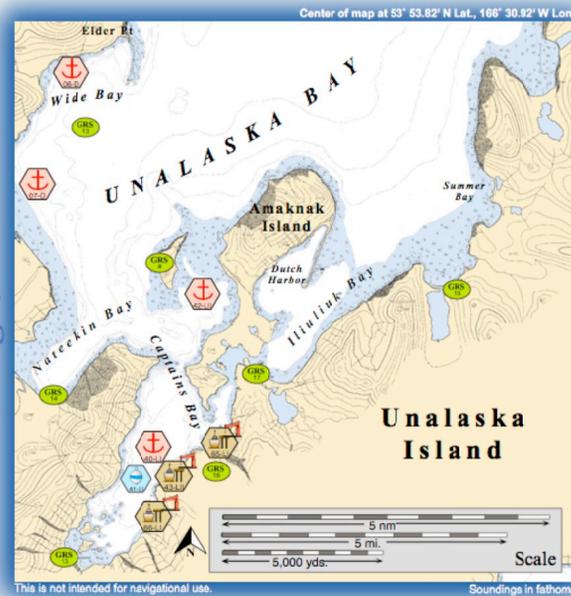


Captains Bay viewed from the south.



#### Stakeholders for PPOR Map 03 of the Aleutian Subarea

Year-2007	Contact
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 Unalaska	Mayor
Ounalashka Corporation	CEO
Native Allotments	Dept of the Interior- Regional Environmental Officer



- Potential Places of Refuge for Aleutians Subarea
- |           |                   |
|-----------|-------------------|
| Anchorage | Existing GRS      |
| Mooring   | Fish Hatchery     |
| Deckpier  | Private Cabins    |
| Crane     | Public Use Cabins |
| Airport   | Boat Harbor       |

### Aleutian PPOR Map 03

NUKA Research & Planning Group, LLC.  
June 2008

# Operational & Site Considerations Tables

Site Information for Aleutian PPOR Map AIEB-01

Aleutian Islands East B-01 PPOR (AIEA-01) - Site Considerations																		
	Wink Bay	Broad Bay	Captain's Bay	Summer Bay	Dutch Harbor-APL Dock	Dutch Harbor-UMC/COGCO Position R-5	South Harbor-Delta Western	South Harbor-P. Aux. Dock	Dutch Harbor-Western Pioneer	Hog Island Anchorage	Captain's Bay N. Pacific Fuel	Magnus Marine Services	Iluluk Bay Anchorage	Light Cargo Dock	Westward Seaford Dock	OO-Rear Dock	Iluluk Harbor-UMSea	Site ID Number and Vessel Class Classification
D Number	05-D	07-D	08-D	09-D	10-D	11-D	43-D1	44-L3	45-L3	46-L3	47-L3	60-L1	61-L1	62-L1	63-D1	64-L1	75-S	D = A deep draft vessel that exceeds 20,000 Gross Tons, has drafts of 2'-60 ft. and range from 450 ft. - 1000 ft. LOA, typical of Tankers/Crueships  LII = A light draft vessel of 10,000 to 19,999 Gross Tons, has drafts up to 25 ft., LOA of up to 450 ft., typical of Ferries/Trempers  LI = A light draft vessel of 300 to 10,000 Gross Tons, has a draft less than 15 ft., LOA less than 200 ft., typical of Excursion/Fishing vessels  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
Navigation - Obstacles on	Unobscure A-5	Unobscure A	Unobscure 1	Unobscure 2	Unobscure 3-D	Unobscure 3-D	Unobscure 3-D	Unobscure 3-D	Unobscure 3-D	Unobscure 3-D	Unobscure 3-D	Unobscure 3-D	Unobscure 3-D	Unobscure 3-D	Unobscure 3-D	Unobscure 3-D	Unobscure 3-D	
Navigation - Obstacles on	Spawning salmon, seals, sea otters waterfowl concentrations, seabird and eagle nesting, shorebird concentration.																	
Fish & Wildlife	Belt's Sider and sea otters are present																	
Threatened & Endangered Species	Entire Area Designated as a Marine Environmentally Sensitive Area (MESA 28) ACF 803																	
Sensitive Areas	Groundfish, herring, salmon, crab																	
Other Stakeholder Considerations	Marine Properties are present throughout the area.																	
Facilities	None																	
Maritime Properties	None																	
Manufacture	None																	
Subsistence	Salmon, marine mammals, waterfowl, crab, intertidal																	
Treatment/Recreation	High recreational use area - water tubing, kayaking, excursion boats, wildlife viewing.																	
Waterfront Public Facilities/Parks	None																	
Waterfront Private Facilities	None																	
Response and Salvage Resource Considerations	Weather dependent																	
Ability to Boom Vessel	Weather dependent																	
Geographic Response Strategies	None																	
Closest Alternative Places of Refuge (same vessel used)	None																	

Aleutian Islands East B-01 PPOR (AIEB-01) Stakeholders	
Year 2007	Contact
Aleutian Corporation	President
Aleutian East Borough	Mayor
Alaska Dept of Fish & Game	Resource Manager
Alaska Department of Natural Resources	Natural Resource Manager
Alaska Maritime National Wildlife Refuge-USFWS	Refuge Manager
City of Unalaska	Mayor
Ounalashka Corporation	CEO
Native Allotments	Dept of the Interior Regional Environmental Officer

Aleutian Islands East B-01 PPOR (AIEA-02) - Physical and Operational Characteristics																	
	Wink Bay	Broad Bay	Captain's Bay	Summer Bay	Dutch Harbor-APL Dock	Dutch Harbor-UMC/COGCO Position R-5	South Harbor-Delta Western	South Harbor-P. Aux. Dock	Dutch Harbor-Western Pioneer	Hog Island Anchorage	Captain's Bay N. Pacific Fuel	Magnus Marine Services	Iluluk Bay Anchorage	Light Cargo Dock	Westward Seaford Dock	OO-Rear Dock	Iluluk Harbor-UMSea
D Number	05-D	07-D	08-D	09-D	10-D	11-D	43-D1	44-L3	45-L3	46-L3	47-L3	60-L1	61-L1	62-L1	63-D1	64-L1	75-S
Location	52°53.00'N 164°51.80'W	52°54.12'N 164°51.70'W	52°54.84'N 164°50.40'W	52°55.50'N 164°52.70'W	52°51.85'N 164°54.90'W	52°54.85'N 164°57.42'W	52°52.80'N 164°52.20'W	52°53.50'N 164°52.80'W	52°54.67'N 164°52.80'W	52°54.30'N 164°52.70'W	52°51.20'N 164°54.40'W	52°54.30'N 164°51.80'W	52°53.80'N 164°52.80'W	52°54.20'N 164°52.70'W	52°51.40'N 164°53.20'W	52°52.81'N 164°51.21'W	52°52.77'N 164°53.07'W
Maximum Vessel Size	Deep draft, greater than 20,000 Gross Tons																
Type of Berthing	Anchorage																
Contact	N/A																
Navigation Approach	Approach from the SE																
Maximum Water Depth	18 Fathoms in the anchorage																
Maximum Water Depth	30 Fathoms in the anchorage																
Maximum Vessel Draft	30 ft.																
Beaching/Deck Face	300 ft.																
Bottom Type	Sand																
Docks/Piers	None																
Anchorage	None																
Mooring Berths	None																
Currents	None																
Tides	None																
Sea Conditions	None																
Shoal from Swells Storms	None																
Fog	None																

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

NUKA Research & Planning Group, LLC.

# Goals & Objectives-Today

- Public information
- Establish Priority Zones in SE Alaska to match funding
- Aerial photography support
- Draft a list of PPOR in the Priority Zones
- Collect input regarding the format of work products

# Southeast Alaska PPOR Website

- Web address-  
<http://www.dec.state.ak.us/spar/perp/seppor/home.htm>
- Main Page
- Work Group page
- Geographic Response Strategies for Southeast Alaska  
<http://www.dec.state.ak.us/spar/perp/grs/se/home.htm>

# Conclusions

- Decision-making Guidelines and Pre-incident Planning greatly aid the Unified Command during an actual event
- Public involvement at the planning stage is critical to success
- Planning may reduce the risks and severity of future spills