

APPENDIX F

SITE-SPECIFIC RESOURCE INFORMATION FOR MARINE OR SHORE USES IN UNIT 8B

Introduction

The waters near Yakutat yield abundant fish and wildlife for community, sport, and commercial harvests, and for recreational viewing. These waters also provide excellent potential for aquatic farming. Future aquatic farms and other developments should avoid or minimize impacts to sensitive and heavily used marine areas. To foster careful development, DNR has compiled site-specific resource information on existing marine resources and uses near Yakutat.

The following table is adapted from the draft *Aquatic Farming Resources Report* prepared for this plan. The table identifies known resources and uses, potential conflicts, possible aquatic farming mitigation measures, and relative sensitivity to aquatic farming for 26 sites within Unit 8B. Local Yakutat representatives provided much of the resource and sensitivity information. In addition to these sites, Humpie Creek and Chicago Harbor just outside of Unit 8B are sensitive to development impacts.

The sites are numbered 12-36 (using the numbering scheme from the *Aquatic Farming Resources Report*). They are identified on the accompanying map. Several of these sites may occur within a single management subunit for the area plan. The subunit number in which the site lies is noted in small type (8b-1, 8b-2, 8b-3 or 8b-4). The sites numbered 1-11 in the *Aquatic Farming Resources Report* are upland areas outside the purview of this area plan.

Map F.1
Resource analysis units for Unit 8B

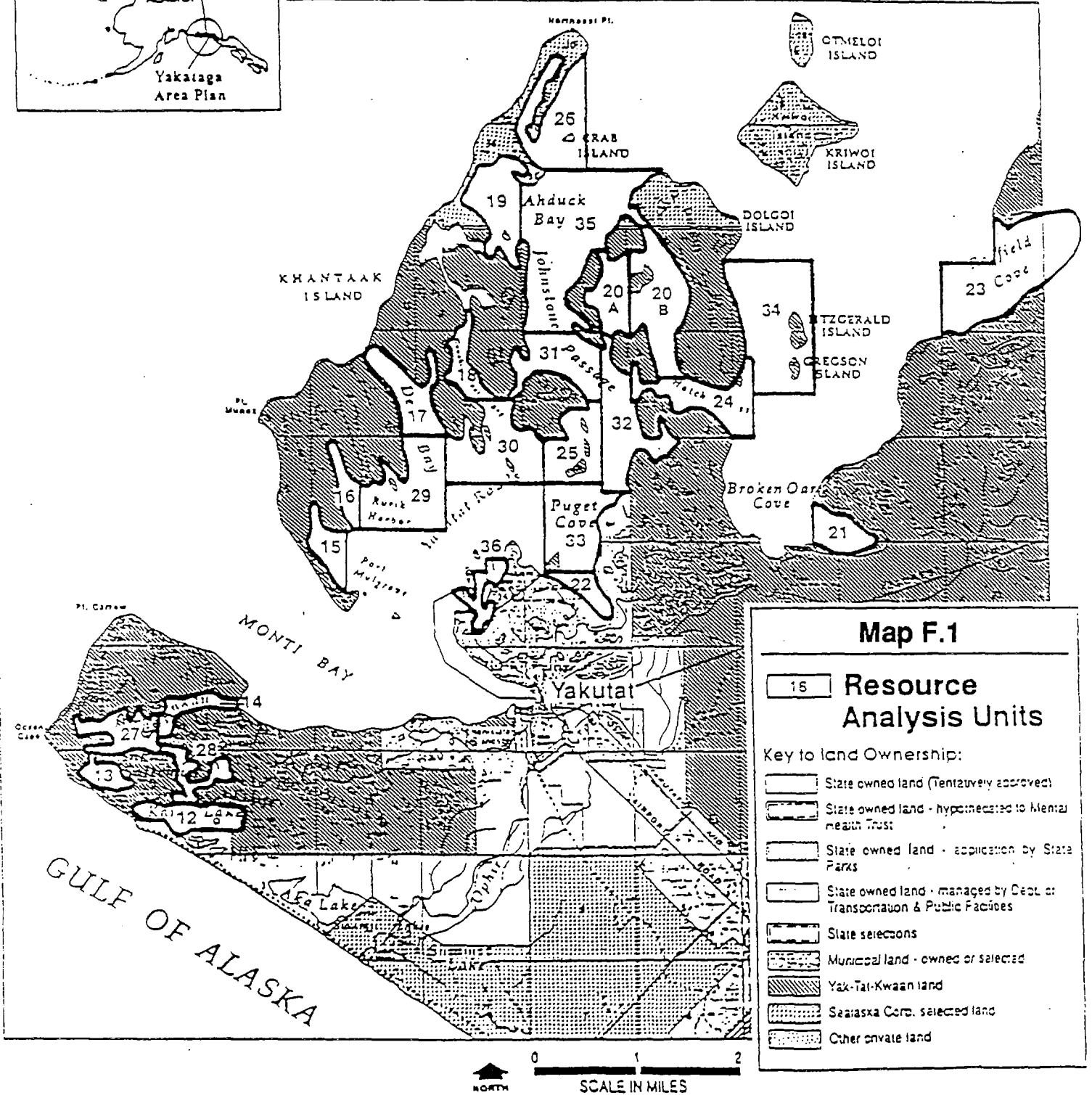
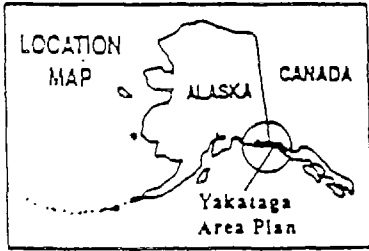


Table F.1

Unit 8B: Existing Uses, Potential Conflicts, and Possible Mitigation by Site

No.	Name	Existing Uses and Potential Conflicts	Possible Mitigation
(8b-1)	Entire nearshore waters	Entire bay has numerous species of waterfowl, including some marbled murrelets. Commercial crabbing is mostly by local residents. Some locals also crab in the outside waters. Skiff fishermen are limited to inside waters. Pot shrimping is almost all local. Most pot shrimping is north east of Khantaak Island except Johnstone passage. Khantaak island is closed to trawling.	<ul style="list-style-type: none"> ■ Standard mitigation.
12 (8b-2)	Kardy Lake Very sensitive Possible consideration for closure to aquatic farming	<p><u>Navigation:</u> access via skiff, mostly</p> <p><u>Subsistence:</u> shellfish (especially crab), waterfowl - ducks & geese, clamming on reefs</p> <p><u>Commercial:</u> Dungeness crabbing, salmon and redfish net fisheries</p> <p><u>Recreation/tourism:</u> Recreation coho fishing, drive out and cast from shore, very popular. Remote, undeveloped</p> <p><u>Aesthetics:</u> med-high</p> <p><u>Cultural:</u> general area of New Russia site, former village fish sites and smoke house remnants</p> <p><u>Habitat:</u> waterfowl concentrations</p> <p><u>Other:</u> conflict is beginning to develop between sport and subsistence. Yak-tat Kwaan did a pilot project for oysters - rack and bag system.</p>	<ul style="list-style-type: none"> ■ Avoid impacts to subsistence harvest, cultural resources, and recreation and aesthetic values. Minimize visible evidence of operation.
13 (8b-2)	Ankau #13 Somewhat sensitive	<p><u>Navigation:</u></p> <p><u>Subsistence:</u> shellfish - cockles & clams, waterfowl, seal hunting. Elders want the highest protection of subsistence at Ankau.</p> <p><u>Commercial:</u></p> <p><u>Recreation/tourism:</u> culture camp</p> <p><u>Aesthetics:</u> med-high; remote, secluded character</p> <p><u>Cultural:</u> culture camp</p> <p><u>Habitat:</u></p> <p><u>Other:</u> Yak-tat Kwaan has considered development plans for Ocean Cape. This area has much less use than Kardy Lake. Storms have occasionally breached the coastal barrier</p>	<ul style="list-style-type: none"> ■ Avoid adverse impacts to culture camp, subsistence, and recreation and aesthetic values. ■ Least sensitive Ankau area. ■ Aquatic farm may be a tourist attraction if tourist lodgings are developed at Ocean Cape.

Table F.1

Unit 8B: Existing Uses, Potential Conflicts, and Possible Mitigation by Site

No.	Name	Existing Uses and Potential Conflicts	Possible Mitigation
14 (8b-2)	Ankau Entrance	<p><u>Navigation:</u> high use, narrow opening, shallow, strongest currents, whirling eddies</p> <p><u>Subsistence:</u> fish, one of the most abundant cockle sites</p> <p><u>Commercial:</u> fish</p> <p><u>Recreation/tourism:</u> high use. Easy road access from town in summer/fall.</p> <p><u>Aesthetics:</u></p> <p><u>Cultural:</u> cemetery</p> <p><u>Habitat:</u> north shore selected by city for a park under ANCSA 14(c)3</p> <p><u>Other:</u></p>	<ul style="list-style-type: none"> ■ Close this area to aquatic farming. Existing uses seasonally saturate capacity of site. Navigation conflict is significant. ■ Some community members desire to close this area in the Ankau to aquatic farming. Area 13 would be the location of lowest conflict within the Ankau.
15 (8b-1)	Port Mulgrave	<p><u>Navigation:</u> shallow, almost dry at low tide</p> <p><u>Subsistence:</u> moderate Dungeness crabbing all the way into the tidal areas, possible rearing area for juvenile Dungeness. Low to moderate clam & cockle gathering.</p> <p><u>Commercial:</u> not heavily used</p> <p><u>Recreation/tourism:</u></p> <p><u>Aesthetics:</u></p> <p><u>Cultural:</u> historic village site and burial sites, not visited much. Possible site for a cultural tourist attraction: Yak-tat Kwaan is interested.</p> <p><u>Habitat:</u></p> <p><u>Other:</u></p>	<ul style="list-style-type: none"> ■ Aquatic farming acceptable with standard mitigation. ■ Crabbing conflicts but aquatic farming could be designed to accommodate crabbing. Do not want onshore facilities because this site is close to town. ■ Used less than most Khantaak bays.
16 (8b-1)	Rurik Harbor	<p><u>Navigation:</u> main anchorage for non-Yakutat boats during commercial fish openings. This is one of the deeper bays: 20 fathoms at mouth and has open channel. Has room to allow anchors to drag a little: mud bottom. Large vessel anchorage in mouth.</p> <p><u>Subsistence:</u> moderate Dungeness crabbing</p> <p><u>Commercial:</u> not heavily used</p> <p><u>Recreation/tourism:</u></p> <p><u>Aesthetics:</u></p> <p><u>Cultural:</u></p> <p><u>Habitat:</u> moderate to high herring spawning; eel grass</p> <p><u>Other:</u></p>	<ul style="list-style-type: none"> ■ Aquatic farming is acceptable with standard mitigation. ■ Do not want onshore facilities. Coves are close to town and operators can commute. ■ Relatively low use, lower than most Khantaak bays.

Table F.1

Unit 8B: Existing Uses, Potential Conflicts, and Possible Mitigation by Site

No.	Name	Existing Uses and Potential Conflicts	Possible Mitigation
17 (8b-1)	Deep Bay Moderate conflicts	<p><u>Navigation:</u> anchorage for large boats, 30 fathoms deep at mouth; 10 fathoms at the head of the bay; free from westerly winds common in summer.</p> <p><u>Subsistence:</u> shrimp pot, crab, salmon trolling. Skiffs go to the end and anchor so people can pick sea weed on the outer beach, and/or picnic.</p> <p><u>Commercial:</u> not heavily used for commercial fishing.</p> <p><u>Recreation/tourism:</u> fishing, access to west Khantaak Island at head of bay, trolling, shrimp and crab</p> <p><u>Aesthetics:</u></p> <p><u>Cultural:</u></p> <p><u>Habitat:</u></p> <p><u>Other:</u> Probably wide enough for boats and aquatic farms. Trollers can pass close to shore because of deep waters.</p>	<ul style="list-style-type: none"> ■Aquatic farming is acceptable with standard mitigation. Avoid adverse impacts to anchorage. ■Concentrated anchorage of boats could degrade water quality for aquatic farming: wastewater discharge, improper garbage disposal.
18 (8b-1)	Gonakadetseat Bay Moderate conflicts; need mitigation.	<p><u>Navigation:</u></p> <p><u>Subsistence:</u> shellfish-crab, relatively high. Coves north of area 18 are used for digging clams and cockles, subsistence & recreation fishing, & waterfowl hunting.</p> <p><u>Commercial:</u> some commercial crabbing, formerly was a commercial set net site. Yak-tat Kwaan operates an oyster farm.</p> <p><u>Recreation/tourism:</u></p> <p><u>Aesthetics:</u></p> <p><u>Cultural:</u></p> <p><u>Habitat:</u> moderate to low; herring spawning; not used some years</p> <p><u>Other:</u> existing aquatic farm in operation with another proposed. The human activity and generator at the aquatic farm have reportedly driven away the game on the shores. See also Other in 19 (Ahduck Bay)</p>	<ul style="list-style-type: none"> ■Minimize adverse impacts to subsistence shellfish harvest. Avoid adverse impacts to existing aquatic farm operations.
19 (8b-1)	Ahduck Bay (Square Bay) Very sensitive	<p><u>Navigation:</u> boat traffic east of bay</p> <p><u>Subsistence:</u> moderate king crab use; waterfowl, bear, northern end used for cockles, deer hunting. Preferred area for deer hunting on Khantaak.</p> <p><u>Commercial:</u> crab; 10 fathom trench in northern end used for trolling;</p> <p><u>Recreation/tourism:</u> access to west Khantaak Island for beachcombing, gumboot harvest, kayaking, berry picking, high recreation use</p> <p><u>Aesthetics:</u> med-high</p> <p><u>Cultural:</u></p> <p><u>Habitat:</u> moderate herring spawning</p> <p><u>Other:</u> area between 18 and 19 receives low use. Kwaan has permit & new operation for scallops: lantern nets & single shell suspension. Experimental. Kwaan is using west side.</p>	<ul style="list-style-type: none"> ■Avoid impacts to navigation, recreation, and aesthetic qualities. Minimize impacts to subsistence. Possibly do not allow floating caretaker facilities. ■Aquatic farming may be acceptable for the area between 18 and 19 with standard mitigation. ■Would need restrictions that locate aquatic farms outside of troll drags. Do not allow caretaker facility or rafts; maintain low visibility of the farm facilities.

Table F.1

Unit 8B: Existing Uses, Potential Conflicts, and Possible Mitigation by Site

No.	Name	Existing Uses and Potential Conflicts	Possible Mitigation
20 A (8b-1)	West Dolgoi Island (west)	<p><u>Navigation:</u> narrow access to Johnstone Passage, somewhat shallow</p> <p><u>Subsistence:</u> cockle & clam gathering (disease concern), deer hunting, highly preferred waterfowl site. Waterfowl are easily disturbed by boats.</p> <p><u>Commercial:</u> highest concentration of Dungeness crab in bay along with #26. Juvenile crab rearing area.</p> <p><u>Recreation/tourism:</u></p> <p><u>Aesthetics:</u> med-high</p> <p><u>Cultural:</u></p> <p><u>Habitat:</u> mostly eel grass</p> <p><u>Other:</u></p>	<p>■ Minimize impacts to navigation and aesthetic values.</p>
20 B (8b-1)	<p>West Dolgoi Island (east)</p> <p>Possible consideration for closure to aquatic farming</p>	<p><u>Navigation:</u> salmon trolling near Hatchet Pass, trollers anchor there in the summer.</p> <p><u>Subsistence:</u> relatively high; crab, seal, fish, waterfowl & geese, very good hunting for waterfowl (especially at north end)</p> <p><u>Commercial:</u> south end is one of top trolling areas, crabbing in summertime, commercial set nets 500 feet from streams</p> <p><u>Recreation/tourism:</u> trolling in south half in summertime. Too shallow for trolling in north half.</p> <p><u>Aesthetics:</u> med-high</p> <p><u>Cultural:</u></p> <p><u>Habitat:</u> some eel grass, high level of herring spawning, coho streams come in on east shore</p> <p><u>Other:</u> Native allotment on northwest shore (?)</p>	<p>■ Carefully site to avoid impacts to significant fish and wildlife harvest, recreation, and aesthetic qualities.</p>
21 (8b-1)	<p>Broken Oar Cove</p> <p>sensitive to very sensitive</p>	<p><u>Navigation:</u> used for loading large ships (log transfer)</p> <p><u>Subsistence:</u> relatively moderate, some shrimp pots, low to moderate tanner & king crab, preferred for seal hunting</p> <p><u>Commercial:</u> trolling</p> <p><u>Recreation/tourism:</u> possible lodge on uplands, some locals keep skiffs here, kayak launching, recreational trolling</p> <p><u>Aesthetics:</u></p> <p><u>Cultural:</u></p> <p><u>Habitat:</u> low to moderate herring spawning on south shore & tip of cove</p> <p><u>Other:</u> road accessible from town, only log transfer facility for Yakutat forelands</p>	<p>■ Avoid adverse impacts to log transfer. Minimize impacts to subsistence and recreation/tourism.</p>

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Unit 8B: Existing Uses, Potential Conflicts, and Possible Mitigation by Site

No.	Name	Existing Uses and Potential Conflicts	Possible Mitigation
22 (8b-1)	Puget Cove extremely sensitive	<p><u>Navigation:</u> heavily used offshore to 35 feet</p> <p><u>Subsistence:</u> highly used for crab, fishing - may be heaviest used subsistence waters along with the Ankau entrance</p> <p><u>Commercial:</u> fishing, some crabbing</p> <p><u>Recreation/tourism:</u> high use potential. Currently used for sport trolling, shore casting.</p> <p><u>Aesthetics:</u> forested slopes hide the logging on the bench lands further inland. Excellent westward views of islands and Mt. St. Elias</p> <p><u>Cultural:</u></p> <p><u>Habitat:</u> a few coho spawning streams, moderate herring spawning, eel grass at head of cove</p> <p><u>Other:</u> area is heavily used. Road from town approaches close to the cove.</p>	<p>■ Avoid impacts to navigation, fish and shellfish harvest, recreation, settlement. Area may be candidate for closure due to significant conflicts.</p>
23 (8b-1)	Redfield Cove Extremely sensitive Possible consideration for closure to aquatic farming.	<p><u>Navigation:</u> 200 feet deep close to shore</p> <p><u>Subsistence:</u> prime for seal hunting, shrimping, crabbing, clams, & cockles; almost guaranteed to catch fish</p> <p><u>Commercial:</u> trolling, especially along north shore over a 10 fathom trench, one of best troll drags in Yakutat Bay. Fishermen troll the entire cove because it is deep from bank to bank.</p> <p><u>Recreation/tourism:</u></p> <p><u>Aesthetics:</u> some logging visible from water.</p> <p><u>Cultural:</u></p> <p><u>Habitat:</u> herring concentration but little spawning.</p> <p><u>Other:</u> uplands owned by Kwaan</p>	<p>■ Avoid impacts to commercial trolling and subsistence activities.</p>
24 (8b-1)	Hatchet Pass (locally called Canoe Pass) Prohibitively sensitive	<p><u>Navigation:</u> main route, narrow, top spot for navigation to inner bay</p> <p><u>Subsistence:</u> fishing, seal hunting, crabbing, shrimp, clam & cockle gathering in pass & in small cove</p> <p><u>Commercial:</u> fish trolling all winter (preferred [possibly top] commercial trolling site) crab, shrimp. This is a top troll drag: the #1 spot in Yakutat Bay.</p> <p><u>Recreation/tourism:</u> fish trolling all winter</p> <p><u>Aesthetics:</u></p> <p><u>Cultural:</u></p> <p><u>Habitat:</u> spawning stream enters cove; major annual herring spawning, continuous eel grass on south shore</p> <p><u>Other:</u></p>	<p>■ Avoid impacts to navigation and salmon trolling.</p>

Table F.1

Unit 8B: Existing Uses, Potential Conflicts, and Possible Mitigation by Site

No.	Name	Existing Uses and Potential Conflicts	Possible Mitigation
25 (8b-1)	Southwest Johnstone Pass	<p><u>Navigation:</u> shallow; 30 feet deep <u>Subsistence:</u> moderate Dungeness crabbing; a little waterfowl hunting <u>Commercial:</u> <u>Recreation/tourism:</u> low fishing <u>Aesthetics:</u> <u>Cultural:</u> <u>Habitat:</u> coho stream <u>Other:</u></p>	<ul style="list-style-type: none"> ■Aquatic farming is acceptable with standard mitigation. ■Size of area might limit size of farm.
26 (8b-1)	Crab Island Extremely sensitive Possible consideration for closure to aquatic farming	<p><u>Navigation:</u> common route to Yakutat Bay <u>Subsistence:</u> relatively heavy use, berries, clams, fishing, (waterfowl?), as valuable as Ankau <u>Commercial:</u> <u>Recreation/tourism:</u> adjacent to boat travel route, camping on spit, picnicking, local recreation <u>Aesthetics:</u> med-high <u>Cultural:</u> historic use documented <u>Habitat:</u> low herring spawning <u>Other:</u></p>	<ul style="list-style-type: none"> ■This may be an area to close to aquatic farming due to significant conflicts. Avoiding adverse impacts may essentially make siting impossible. ■Don't allow caretaker facility.
27 (8b-2)	Ankau #27 Somewhat sensitive	<p><u>Navigation:</u> shallow, some narrow passages <u>Subsistence:</u> shellfish - clams & cockles, waterfowl. Full range of subsistence activities. <u>Commercial:</u> <u>Recreation/tourism:</u> <u>Aesthetics:</u> med-high <u>Cultural:</u> culture camp 2-3 weeks in summer, May - July. <u>Habitat:</u> <u>Other:</u> possible clam growing; accessible by road from town, seniors go there</p>	<ul style="list-style-type: none"> ■May be area of Ankau system with less conflict. ■Avoid impacts to navigation. ■Minimize impacts to visual qualities, subsistence activities.
28 (8b-2)	Ankau #28 Sensitive	<p><u>Navigation:</u> narrow passages, shallow, almost dry at low tide <u>Subsistence:</u> crab(?), waterfowl <u>Commercial:</u> <u>Recreation/tourism:</u> access to Kardy Lake <u>Aesthetics:</u> med-high <u>Cultural:</u> <u>Habitat:</u> <u>Other:</u></p>	<ul style="list-style-type: none"> ■Avoid impacts to navigation.

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Unit 8B: Existing Uses, Potential Conflicts, and Possible Mitigation by Site

No.	Name	Existing Uses and Potential Conflicts	Possible Mitigation
29 (8b-1)	Prince Shoal not too sensitive	<u>Navigation:</u> <u>Subsistence:</u> clams, cockles, waterfowl hunting <u>Commercial:</u> <u>Recreation/tourism:</u> <u>Aesthetics:</u> <u>Cultural:</u> <u>Habitat:</u> low level herring spawning along shore & reef <u>Other:</u> exposed to rough weather	■Aquatic farming is acceptable with standard mitigation.
30 (8b-1)	Yakutat Roads Sensitive	<u>Navigation:</u> common route <u>Subsistence:</u> crabbing, clamming on tidal reefs in south <u>Commercial:</u> Dungeness crabbing, trolling (moderate to low) <u>Recreation/tourism:</u> <u>Aesthetics:</u> <u>Cultural:</u> <u>Habitat:</u> regular herring spawning in south <u>Other:</u>	■Aquatic farming is acceptable with standard mitigation. Avoid impacts to navigation.
31 (8b-1)	Canoe Pass North (local name Hatchet Pass) southern shore and cove are very sensitive	<u>Navigation:</u> common route: deep water (30 fathoms) <u>Subsistence:</u> cove is highly used for crabbing, clamming along point <u>Commercial:</u> king & tanner crab <u>Recreation/tourism:</u> cove is used for recreational fishing <u>Aesthetics:</u> <u>Cultural:</u> <u>Habitat:</u> coho runs in cove, cove is used for herring spawning <u>Other:</u>	■Aquatic farming is acceptable with standard mitigation. Avoid impacts to navigation. ■Do not want onshore facilities. Coves are close to town and operators can commute.
32 (8b-1)	Southeast Johnstone Pass (Shaw's Cove) Main channel is deep (200 - 250 feet) and less sensitive	<u>Navigation:</u> common boat traffic; cove is shallow <u>Subsistence:</u> relatively high use in cove, low use for set netting in spring for king salmon. Seals, eels also harvested. <u>Commercial:</u> trolling & set netting (low use) along shore, relatively low crab fishing in the cove. <u>Recreation/tourism:</u> <u>Aesthetics:</u> <u>Cultural:</u> <u>Habitat:</u> cove is used for herring spawning; best herring spawning in bay; anadromous streams <u>Other:</u>	■Do not want onshore facilities. Coves are close to town and operators can commute.

Table F.1**Unit 8B: Existing Uses, Potential Conflicts, and Possible Mitigation by Site**

No.	Name	Existing Uses and Potential Conflicts	Possible Mitigation
33 (8b-1)	North Puget Cove	<u>Navigation:</u> common boat traffic <u>Subsistence:</u> seal hunting, some clamming on reefs <u>Commercial:</u> Dungeness crab, moderate trolling <u>Recreation/tourism:</u> moderate trolling <u>Aesthetics:</u> <u>Cultural:</u> <u>Habitat:</u> <u>Other:</u>	<ul style="list-style-type: none"> ■ Avoid impacts to navigation. ■ Do not want onshore facilities. Coves are close to town and operators can commute. ■ Standard mitigation.
34 (8b-1)	East Dolgoi	<u>Navigation:</u> exposed <u>Subsistence:</u> <u>Commercial:</u> important troll area <u>Recreation/tourism:</u> <u>Aesthetics:</u> <u>Cultural:</u> <u>Habitat:</u> <u>Other:</u>	<ul style="list-style-type: none"> ■ Avoid impacts to commercial trolling.
35 (8b-1)	North west shore of Dolgoi and smaller islands	<u>Navigation:</u> <u>Subsistence:</u> excellent clamming on reefs <u>Commercial:</u> <u>Recreation/tourism:</u> <u>Aesthetics:</u> <u>Cultural:</u> <u>Habitat:</u> <u>Other:</u>	<ul style="list-style-type: none"> ■ Standard mitigation.
36 (8b-4 & 8b-5)	Saltchuck (near the boat harbor) Somewhat sensitive	<u>Navigation:</u> <u>Subsistence:</u> sea cucumbers, sea urchins <u>Commercial:</u> <u>Recreation/tourism:</u> <u>Aesthetics:</u> <u>Cultural:</u> <u>Habitat:</u> <u>Other:</u> important use area by less mobile residents	<ul style="list-style-type: none"> ■ Avoid impacts to subsistence activities.