For Office Use Only	ADNR File No:	DATE STAMP:
	ADF&G No:	







Alaska Aquatic Farm Program Joint Agency Application – Part II

You are encouraged to submit a completed application as early in the filing period as possible. The current application form must be used and properly completed before state agencies can process your project. **An incomplete application will not be processed.** A checklist is included to assist you in meeting this requirement. The best way to facilitate the review of your application is to schedule a pre-application meeting with ADNR and ADF&G to discuss your project. The original application including attachments and all required fees must be delivered and present in the Alaska Department of Natural Resources office no later than April 30th.

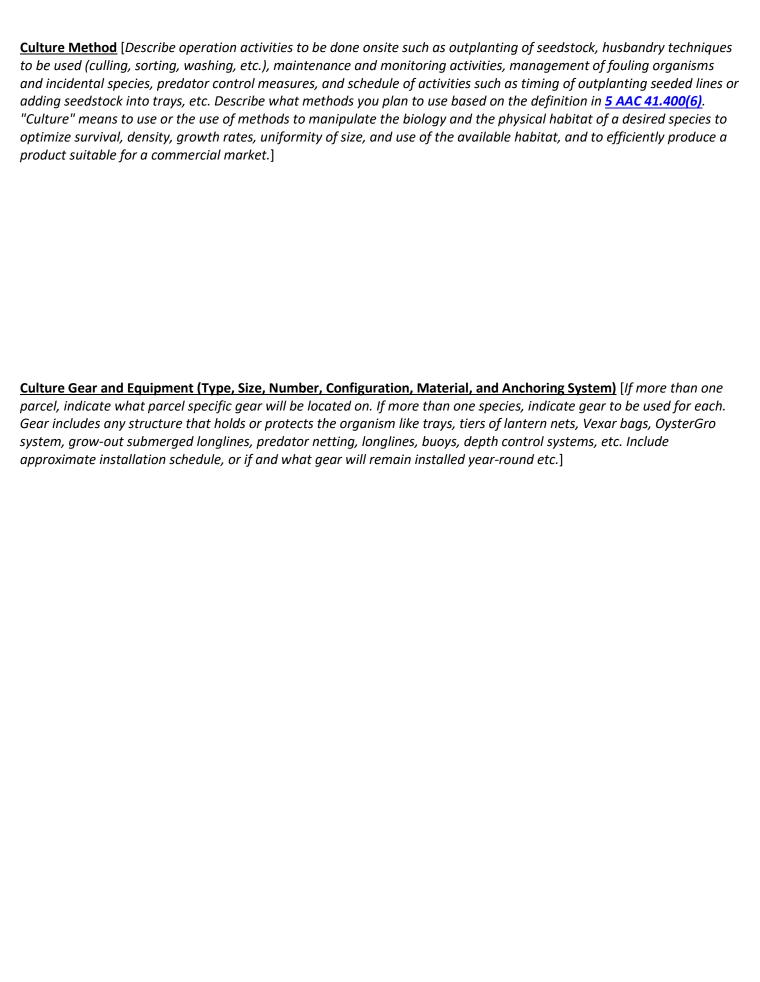
The project location is in:	☐ Southeast Alaska	☐ Southcentral Alaska			
	☐ Kodiak	☐ Alaska Peninsula ☐ Other			
This project is:	First Time Application	☐ Renewal Applicat	tion		
A. APPLICANT INFORMATION	DN				
Name		Contact Name			
Business Name (If Applicable	e)	Contact Phone Number			
Mailing Address (PO Box or S	Street Address)	Business Partner Name (If applicable)			
City State Zip Business Partner Email Address (If					
Email Address		Business Partner Phone (If applicable)			
Home/Office Phone	Cell Phone				

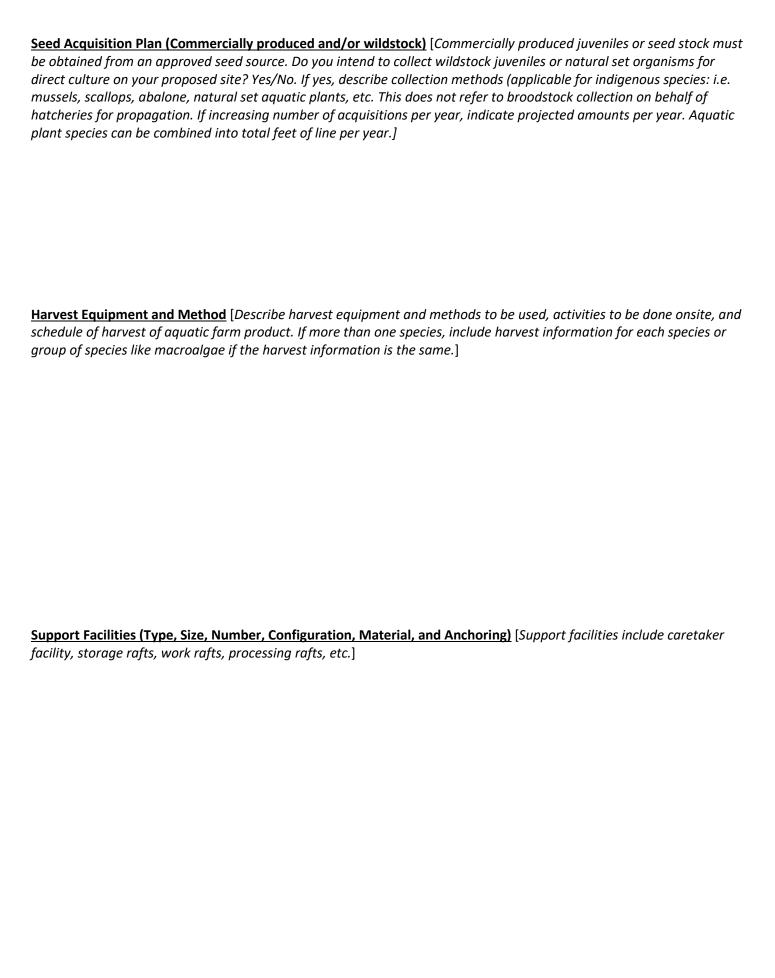
B. PROJECT DESCRIPTION

In the space provided below, please provide a general description of your proposed aquatic farm site and operations. This should be a narrative of your proposal that includes where your project will be located, overall size including any hardening area, all species you intend to culture, type of farm gear, equipment, support facilities, and associated housing to be used including size, number, and construction materials. Your narrative should match the rest of the application information you provide. If additional space is necessary, please attach a separate document labeled "PROJECT DESCRIPTION". Example information for project narrative can be found in Attachment I.

PROJECT DESCRIPTION

DATE SUBMITTED:
Company Name
Site Location [Include water body, distance from nearest community, any landmarks, general region of Alaska, and whether on state tidal and/or submerged lands or private. Provide enough information to understand where it is located.]
Site Dimensions, Acres for Each Parcel
Total Acres of All Parcels
Species You Intend to Farm [Include scientific and common species name]





	cess th]	to and from Site [Include nearest community, transportation type used and how many times traversing back and
Sto	orage	e Location of Equipment and Gear When Not in Use [Include whether on private lands and nearest community]
c.	PRO	JECT OPERATION PLAN
1.		w will support facilities, culture gear and anchoring systems be maintained? How often, in days per month, do you intend to monitor your site for things such as adequate anchoring, disease, exotic species settlement, fouling, gear drift, snow load, wind damage, vandalism, etc.?
	b.	Growing season (days/month) Off months (days/month) How will you keep the gear and shellfish free of fouling organisms (hot-dip, air dry, pressure washing, etc.)?
	c.	How will you manage reduction of competing species over the course of operations (relocate sea stars, grow-out cages, or other possible protection from competing species)?
	d.	If you intend to use predator netting, how long will you keep netting over your product? (months)
	e.	If using predator netting, how will you minimize impacts on non-target species, including seabirds, seals, sealions, walrus and whales?
2.	Pro a.	ijected Harvest Rotation Consistent with Life History How often do you intend to harvest your product by species?
	b.	Do you plan on utilizing density manipulation by culling or redistribution?

3.	Acquisition of hatchery or v	vild seed	
	a. Will you use a certified	or approved shellfish seed source(s)? Yes	; □ No □
	b. Will you use an Alaska k	elp hatchery? Yes \square No \square	
	c. How do you intend to co invertebrates, etc.)	ollect wild seed? (Applicable for indigenor	us species: i.e. clams, natural set kelp,
4.	covered by the previous qu	estions (examples: predator exclusion, re listribution, importing natural or hatche	
	PROJECT LOCATION Coordinates		
pa co Lo	orcel to be used. For example, ordinates must be in NAD83 ongitude -133° 17.345), obtain	Parcel 1 - growing area, Parcel 2 - harden datum using degrees and decimal minute	es format to the nearest .001 minute (Example: S). If you are applying for more than three
<u>de</u>	escription or on a separate she	eet.	
Pa	arcel 1:	NE Corner No. 1: Latitude	Longitude
(e.	.g. Grow-out Area)	SE Corner No. 2: Latitude SW Corner No. 3: Latitude NW Corner No. 4: Latitude	Longitude
Ра	arcel 2:	NE Corner No. 1: Latitude SE Corner No. 2: Latitude	Longitude
(e.	.g. Hardening Area	SW Corner No. 3: Latitude	
		NW Corner No. 4: Latitude	
Dэ	arcel 3:	NE Corner No. 1: Latitude	
. a		SE Corner No. 2: Latitude	
(e.	.g. Support Facility Area)	SW Corner No. 3: Latitude	
		NW Corner No. 4: Latitude	

c. What techniques will be used to optimize growth or condition of product?

2. Site Size

Please use the following formula to compute area. For more complex parcel shapes, you may wish to use the Measure Area tool in Alaska Mapper found at https://mapper.dnr.alaska.gov/. If you are applying for more than three parcels or your parcels are not rectangular, you may provide this information in the project description or on a separate sheet.

- 1. To compute the total area (sq. ft), multiply the width (ft) by the length (ft) of Parcel 1. The outside length and width of the Parcel must include your anchors and anchoring system plus any scope.
- 2. Divide the area (sq. ft) of Parcel 1 by 43,560, to convert the area from sq. ft to acres.
- 3. Repeat for each separate Parcel of your proposed farm site.
- 4. Add the acreage of each Parcel to get the total tideland acreage for your proposed farm site.
- 5. Write the Total Acreage on the line where indicated.
- 6. Note that the number of acres must correspond to your farm site maps and drawings.

Parcel 1:	: feet (x)		feet =		square feet (÷) 43,560 = _	
	(Width of Parcel 1)	(Length of Parcel 1)	(Area)		(Acres)
Parcel 2	: feet (x)	1	feet =		square feet (÷) 43,560 = _	
	(Width of Parcel 2)	(Length of Parcel 2)	(Area)		(Acres)
Parcel 3	: feet (x)		feet =		square feet (÷) 43,560 = _	
	(Width of Parcel 3)	(Length of Parcel 3)	(Area)		(Acres)
How ma	ny total acres of state-owr	ned tidelands are yo	ou applying t	or (add all _l	parcel acres):	
						(Total Acreage)
If you ar	e also applying for state ov	ned uplands for su	pport facilit	ies , how ma	ny total upland acres?	
					(Total	Upland Acreage

3. Maps and Diagrams

Provide copies of maps and diagrams including general and detailed location maps, site plan map (an overview), cross-sectional diagram and detailed drawings. If the project has multiple parcels, you must provide maps of each parcel. Copies of the maps and drawings should be no larger than 8½" x 11" (standard letter size). Examples are provided at the end of the application.

A list of mapping resources is provided below:

Alaska Mapper
Alaska Ocean Observing System Mariculture Map

https://mapper.dnr.alaska.gov/
https://mariculture.portal.aoos.org/

NOAA Nautical Charts www.charts.noaa.gov

ShoreZone Mapping System https://www.fisheries.noaa.gov/alaska/habitat-

conservation/alaska-shorezone

<u>Catalog of Anadromous Streams</u> <u>https://www.adfg.alaska.gov/sf/sarr/awc/</u>

FORMATTING

Figure No. and Title
Applicant Name (Business Name)
Waterbody
Area/Region
Today's Date

LEGEND BOX EXAMPLE

Figure 1 Detailed Location Map Alaska's Best Oysters Jerryton Bay East of Prince of Wales Island, Southeast AK March 30, 2012

^{*}Be sure to include a legend box on all maps and diagrams you provide with your application with the following information:

а.	Attachment 2, Figure 1). Use a USGS Topographic quadrangle map (scale: 1" = one mile (1:63,360)) and label it "Figure 1" and show the following information:
	 USGS Map Name (e.g. Craig B-4) General location of the farm site Distance (in nautical miles), and direction (arrow) of the site from the nearest community A directional arrow identifying North Scale Legend box (example on previous page)
b.	Detailed Location Map - This map is a smaller scaled map showing more detail (See Attachment 2, Figure 2). Use a National Oceanic and Atmospheric Administration (NOAA) navigational chart and label it "Figure 2" and show the following information:
	 NOAA Chart No
C.	Site Plan Map - Draw an overhead view of the farm area parcel(s) and surrounding area (See Attachment 2, Figures 3 and 4). Label it "Figure 3" and show the following information: All in-water structures and anchoring systems (All anchoring systems and anchor scope have to be inside the farm parcel boundary) All equipment and support facilities with dimensions (in feet) Areas of eelgrass beds (intertidal zone) Areas of kelp beds (subtidal zone) Fuel and chemical storage Nearby anadromous streams (fish) Distance between all facilities, gear or equipment on the proposed farm site Legend box (example on previous page)
d.	Cross-Sectional Diagram(s) - Provide Cross-Sectional Diagram(s) of all support facilities, equipment, and gear showing their placement and anchoring systems (See Attachment 2, Figure 5). Note that more than one diagram may be required. Label it "Figure 5" (and so on) and show the following information: Distance from bottom of gear to ocean bottom at mean lower low tide If suspended or on-bottom culture: water depth at low tide major on-bottom physical features (sand, mud, silt, clay, bedrock, cobble, shells, rockweed, algae/seaweed) and contours Dimensions of the anchoring configuration and poundage Scale Legend box (example on previous page)
e.	 Detailed Drawing(s) - Provide Detailed Drawing(s) of all support facilities, equipment, and gear (See Attachment 2, Figure 5). Note that more than one diagram may be required. Label and show the following information: □ Draw and label the dimensions (length/width/height) of all proposed gear and equipment □ Legend box (example on previous page)

E. SITE SUITABILITY – PHYSICAL AND BIOLOGICAL CHARACTERISTICS

1.	Is the proposed location protected from severe storms, strong currents, winter ice, etc. and if not, is the farm designed for extremes?
	Yes No Additional Information
2.	Does your site have suitable water exchange for species of culture? Yes \square No \square
3.	Are water temperatures suitable for proposed species of culture? Yes $\ \square$ No $\ \square$
	(Note: temperatures > 60° and < 31° F may pose problems such as Vibrio bacteria contamination or icing.)
4.	Is there any significant freshwater influence near the farm? Yes $\ \square$ No $\ \square$
	(Note: freshwater may impact shellfish growth and/or survival or carry fecal coliform or other pollutants)
5.	Is the salinity concentration at your proposed farm site appropriate for species of culture? Yes $\ \square$ No $\ \square$
6.	Have you monitored the phytoplankton (microalgae) abundance and types during the main grow-out season?
	Yes □ No □ If yes, findings:
	(Note: shellfish depend on phytoplankton for food, but harmful phytoplankton can prevent harvest/sales.)
7.	Have you monitored suspended sediments or turbidity (e.g. water clarity/transparency using a secchi disc) at
	your proposed farm site? Yes No If yes, findings:
	(Note: This is used as rough check for microalgae densities, run-off, and glacial silt (milky- grey color).)
8.	For on-bottom culture, are the bottom characteristics suitable for the proposed species? Yes \square No \square
•	
0	Substrate and vegetation?For on-bottom culture, how will bottom characteristics be made suitable if not already?
9.	For on-bottom culture, now will bottom characteristics be made suitable it not already?
10.	For suspended culture, is the water depth sufficient to prevent gear from grounding and impacting the benthos
	under floating structures? Depth of Gear (in ft): Water depth at low tide (in ft):
	Is your proposed site more than 300 ft from an anadromous fish stream? Yes \Box No \Box
12.	Are you aware of any eelgrass or kelp beds on or near your proposed farm site? Yes \Box No \Box If yes, describe:
13.	For farming using on-bottom culture methods, is there insignificant wild stock of the species to be cultured on
	the proposed farm site? (Reference 5 AAC 41.235) Yes No O Additional information
14.	Are there existing uses near your proposed farm site such as boat traffic, existing fisheries or a sensitive area as
	listed in section C of Part 1, etc. that may be impacted by the farm operation? Yes \square No \square If yes, describe
	how your farm can be sited to mitigate conflicting uses?

F. KNOWN EXISTING USES

		le of the proposed farm site. Indicate the loc own (refer to page 8, Section 3c).	atio	ns of these existing uses on the Site Plan Map if specific locations
	mir	ning		other aquatic farm projects
	tim	ber harvest or transfer		commercial fishing
	res	idential use		sport fishing
	har	bor development		salmon hatcheries
	she	ltered boat anchorage		hunting
	sea	plane landing		seafood processing plant
	cor	nmercial lodges		upland access route(s) areas, bear trails, etc.
	_	ntseeing		wildlife use, (e.g. shorebirds, sea mammal haul-outs)
	rec	reation		subsistence; list species and frequency
	tou	ırism		
	his	torical/cultural/archaeological site		
	nav	rigational channels:		
	oth	er; list		
	O Ci i			
G.	SUP	PORT FACILITIES		
	1.	<u>Personnel/Caretaker Housing</u> (additional ar Are you proposing any personnel/caretaker		• • • • •
		If yes, the proposed size will be: (Wide Please attach diagrams/drawings with label	-	(Length) (Height) early showing the Personnel/Caretaker housing.
		Note: you may stay a maximum of 14 conseapplying for personnel/caretaker housing.	cuti	ve days at your site on state-owned uplands or tidelands without
	2.	Enclosed Processing Facility Are you proposing any enclosed processing	faci	lity? Yes □ No □
		If yes, the proposed size will be: (Wide Please be sure the processing facilities are in Diagrams section above.	-	(Length) (Height) ded in the maps and diagrams described in the Maps and
	3.		-	adjacent to, or near, the proposed farm site that you plan to use If yes, attach a copy of ownership deed or lease.
		If you are the adjacent upland owner, are years \square No \square	ou a	pplying for a preference right under 11 AAC 63.040(f)?

Please check the boxes below, to indicate existing human and/or wildlife uses observed or known to exist at or within

H. CITY AND BOROUGH CONTACTS

_	
1.	City/Borough Authorization
	If you are applying within a city or borough, please contact the appropriate authority as additional
	authorizations may be required from them. Please provide the name, address, and telephone number of the
	person(s) you contacted and list any required authorizations.

	person(s) you contacted and list any required authorizations.		
	CITY/BOROUGH	<u>PHONE</u>	CONTACTED?
	☐ City of Cordova	907-424-6220	Yes \square No \square
	☐ City of Klawock	907-755-2261	Yes \square No \square
	☐ City and Borough of Wrangel	907-874-2381	Yes \square No \square
	☐ City of Craig – Planning & Zoning	907-826-3275	Yes \square No \square
	☐ City and Borough of Juneau – Permit Center	907-586-5252	Yes \square No \square
	☐ City and Borough of Sitka – Planning & Community Development	907-747-1814	Yes \square No \square
	☐ City of Thorne Bay	907-828-3380	Yes \square No \square
	☐ City and Borough of Yakutat – Planning & Zoning Commission	907-784-3323	Yes \square No \square
	☐ Kenai Peninsula Borough – Land Management Division	907-714-2205	Yes \square No \square
	☐ Kodiak Island Borough – Community Development	907-486-9363	Yes \square No \square
	☐ Lake and Peninsula Borough – Community Development	907-246-3421	Yes \square No \square
	☐ Aleutians East Borough – Permitting	907-383-2699	Yes \square No \square
	☐ Ketchikan Gateway Borough – Planning & Community Development	907-228-6610	Yes \square No \square
	☐ Haines Borough	907-766-6401	Yes \square No \square
1. WA	TER QUALITY INFORMATION – Department of Environmental Conservation Do you plan to use a boat on your farm site? Yes No If yes, indicate device.		e sanitation
2.	If you plan to have personnel housing or caretaker facilities: Will wastewater be discharged from these facilities? Yes \square No \square If yes	•	
	average discharge volumes? Maximum Average _		
3.	Were there any sources of past pollution at the site, such as a shore-based facility, industrial facility, oil spill contamination, or town or village? Yes If yes , identify: a. The type of previous use (e.g. mine, village, seafood processor, oil spill	□ No □ Unknown	-
	b. The last known date of use.c. The distance from site previously used to your proposed site.		

4.	out Ye s	e you aware of any current potential sources of human or industrial pollution in the area? (e.g. sewage stalls, oil contamination, industrial transfer facilities upland operations, boar harbors, etc.) Solution If yes, describe: The type of discharge(s).
	b.	The location and distance from your site.
	c.	The name of the discharger(s), if known.
5.		e you aware of any other planned development in the general area of your proposed site? \square No \square If yes , describe the planned development.
6.	AD	EC may request that you provide a map for certain projects to show the following information:
	a.	areas of wastewater disposal systems, including both sewage and grey water discharge points (grey water means domestic wastewater from laundry, kitchen, etc., which does not contain human waste)
	b.	location of drinking water, including drinking water wells or other drinking water system sources (fresh water and salt water), within 200 feet of any proposed or existing wastewater disposal systems
	c.	location of solid waste storage and disposal sites (Note: you are encouraged to use existing permitted sites for the disposal of solid wastes. If there are not any existing permitted disposal sites in the area and they are necessary in your operation, you must contact the ADEC for authorization)
	d.	areas used for fuel and chemical storage

J. APPLICATION SIGNATURE BLOCK

AQUATIC FARM APPLICATION SIGNATURE AND PROGRAM CERTIFICATION STATEMENT

The information contained in this aquatic farm application is true and complete to the best of my knowledge and I certify that the proposed activity complies with and will be conducted in a manner consistent with all State and Federal Agency policies and regulations. I understand that modifications to the proposed activity may require additional review and that I may need to apply for additional authorizations.

This certification statement does not provide authorization necessary to sell my product. I understand I must separately apply for and hold a Growing Area Certification and a Shellfish Harvester or Shellfish Dealer Permit from the Department of Environmental Conservation.

Printed Name	
Signature of Applicant	Date
Printed Name	
Signature of Applicant	Date
☐ I have enclosed the application fee required under 11 AAC 05.230(d)(3)(A)	

In submitting this form, the applicant certifies that he or she has not changed the original text of the form or any attached documents provided by the Division. This information is made a part of the state public land records and becomes public information under AS 40.25.110 and 40.25.120 (unless the information qualifies for confidentiality under AS 38.05.035(a)(8) and confidentiality is requested, AS 43.05.230, or AS 45.48). Public information is open to inspection by you or any member of the public. A person who is the subject of the information may challenge its accuracy or completeness under AS 44.99.310, by giving a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit are punishable under AS 11.56.210. In submitting this form, the applicant agrees with the Department to use "electronic" means to conduct "transactions" (as those terms are used in the Uniform Electronic Transactions Act, AS 09.80.010 - AS 09.80.195) that relate to this form and that the Department need not retain the original paper form of this record: the department may retain this record as an electronic record and destroy the original.

Attachment 1 Example Project Description

SAMPLE INFORMATION TO INCLUDE IN PROJECT DESCRIPTION OUTLINE

The proposed aquatic farm site is composed of four separate parcels located on state-owned tidal and submerged lands, totaling about 6.82 acres. Parcels include:

- growing area measuring 292 ft x 546 ft (3.66 acres) for subtidal suspended culture of Pacific oysters using growout raft and cage system (Parcel 1);
- intertidal area measuring 60 ft x 154 ft (0.21 acre) for hardening and defouling (Parcel 2);
- support facility area measuring 46 ft x 190 ft (0.20 acre) for a dock and storage (Parcel 3);
- Seasonal growing area measuring 200 ft x 600 ft (2.75 acres) for submerged growing lines for culture of ribbon and sugar kelp (Parcel 4).

The proposed aquatic farm is located about 24.7 nautical miles south-southwest of Wrangell near Rocky Bay, a small bay near the mouth of Mosman Inlet on Etolin Island in southeastern Alaska. (Attachments 1-5)

Parcel 1 will hold eight (8) - 16 ft by 20 ft oyster grow-out rafts. Each grow-out raft will use 100 to a maximum of 300 Aquamesh cages stacked 10-high. Each cage will measure 22 inches wide x 22 inches long x 6 inches deep, manufactured of 1- inch by 1-inch PVC coated wire mesh. The 6 ft stacks of cages would hang 8 ft under the water's surface. In addition, in the southwestern portion of the parcel, a 40 ft x 40 ft processing float with one 16 ft x 16 ft work shed, a covered area, and two 20 ft x 4 ft work platforms on each side will be used to accommodate oyster grow-out rafts during processing. The anchor system for all rafts would consist of floating anchor lines from each corner secured using 300 lb concrete anchors in water 60 ft deep. All rafts are constructed of untreated local wood with floatation made of closed cell (extruded) expanded polystyrene (Attachments 6 – 10).

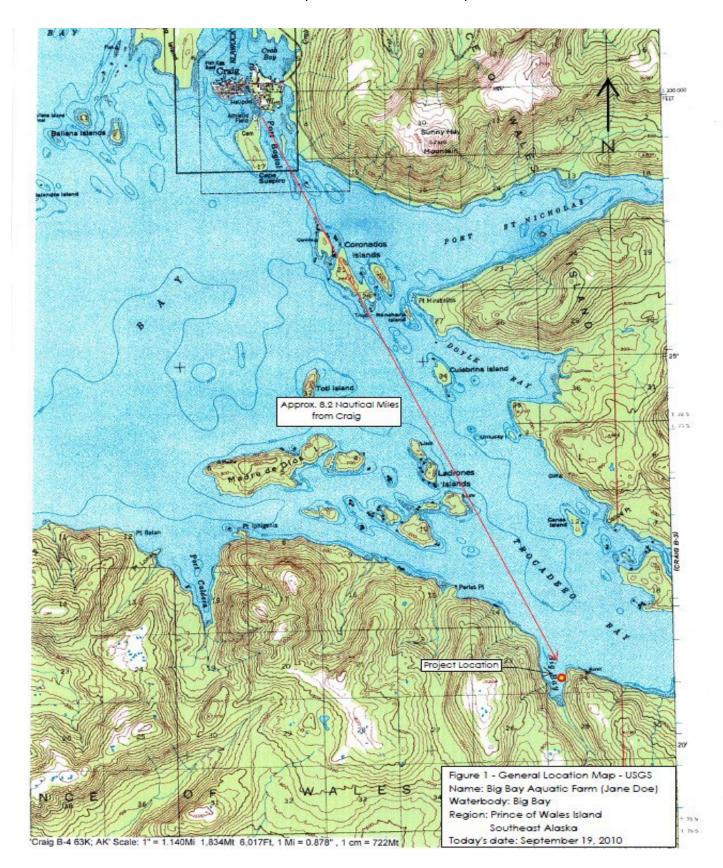
Parcel 2 will be used for hardening and defouling of Pacific oysters, using Aquamesh trays measuring 22 inches wide by 22 inches long by 6 inches deep (Attachment 11).

Parcel 3 will be for support facilities. A dock measuring 20 ft x 30 ft will be anchored on this parcel for storage of gear. Two 100-pound Danforth anchors and chain will be installed on year 2 and remain year-round. (Attachment 12)

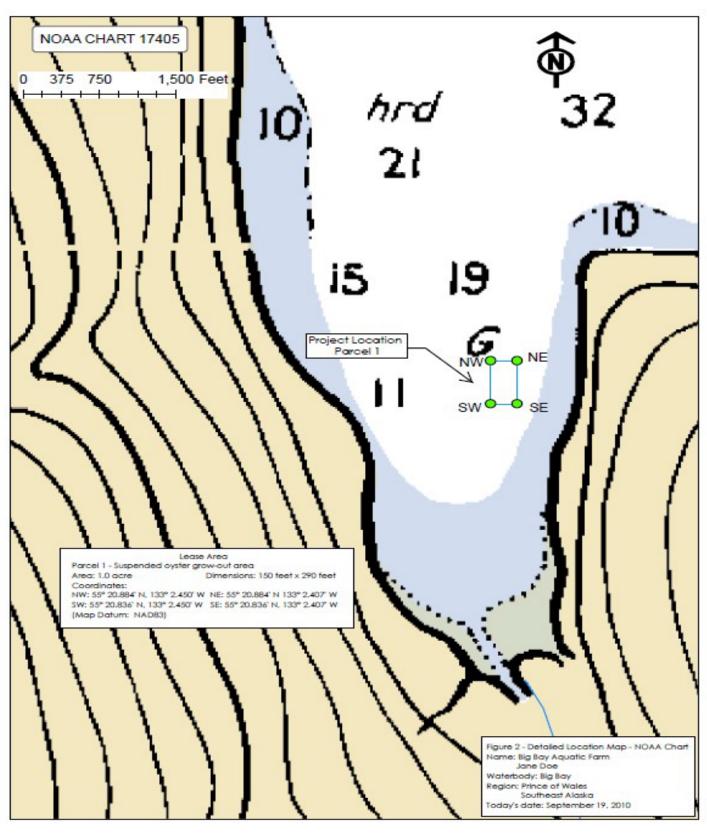
Parcel 4 will contain 20 – 400 ft longlines for culture of aquatic plants. Submerged longlines will be installed seasonally in October. Each line will be suspended 7 feet below the surface with depth-control systems with dropper weights and buoys. Harvest will occur in May and all culture gear removed. Anchors and mooring buoys will remain onsite year-round.

Upland facilities and support structures are located on National Forest Service lands adjacent to the farm site. Access to the site is by skiff from the adjacent uplands. Equipment and gear storage will be located on the permitted uplands or in Ketchikan.

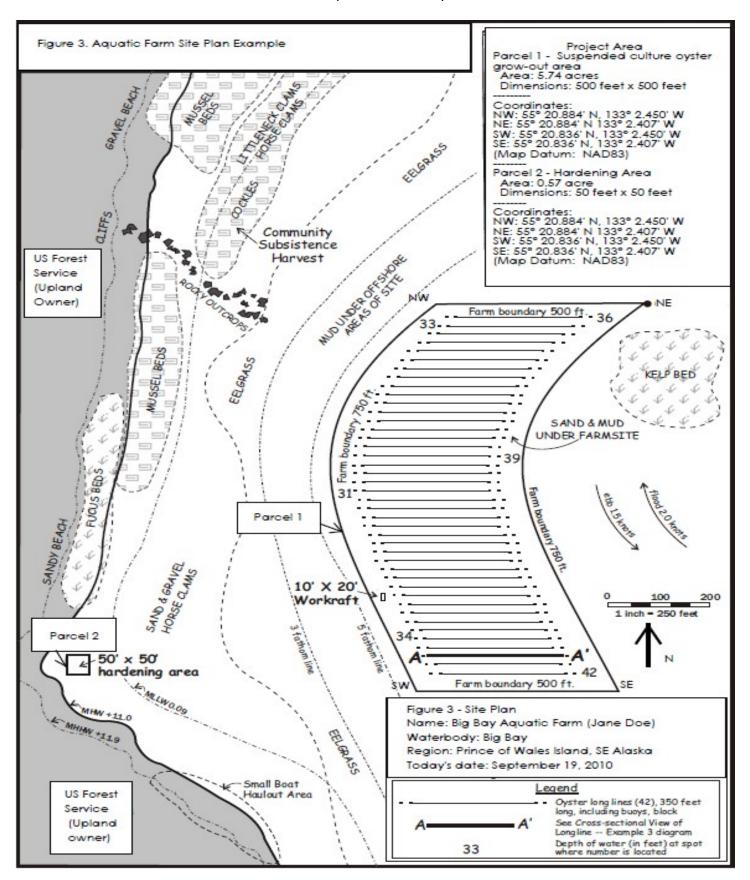
Attachment 2
Figure 1
Example General Location Map



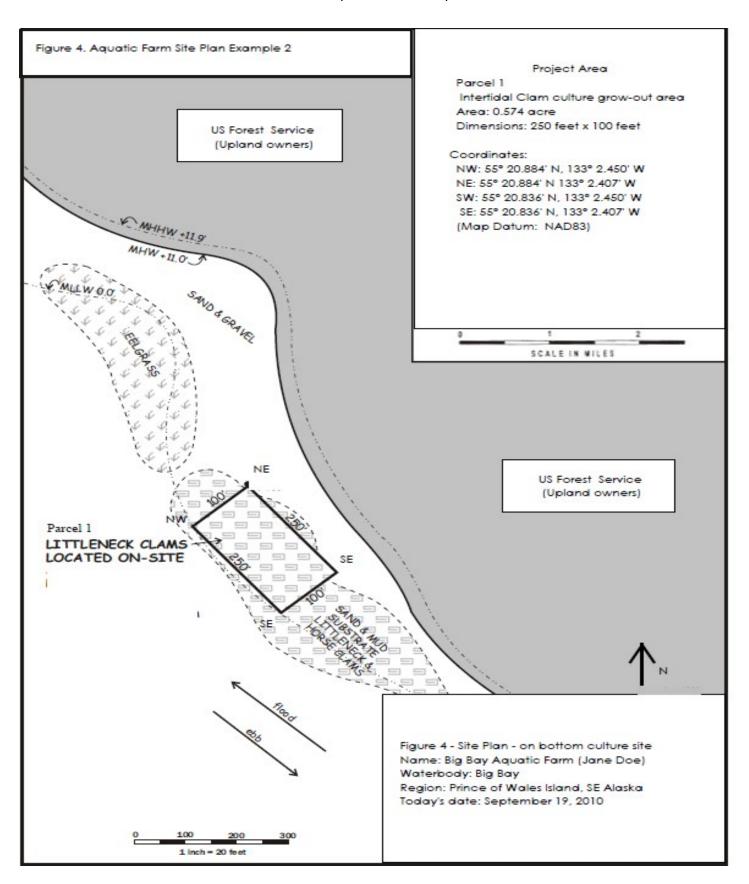
Attachment 2
Figure 2
Example Detailed Location Map



Attachment 2 Figure 3 Example Site Plan Map

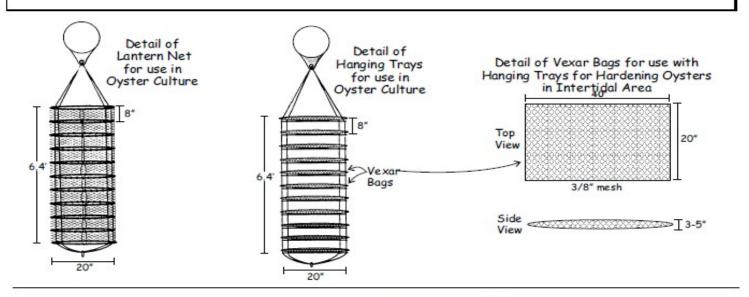


Attachment 2 Figure 4 Example Site Plan Map

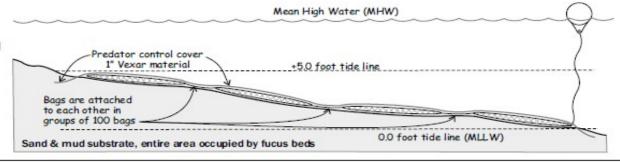


Attachment 2 Figure 5 Example Cross Sectional Diagram and Detailed Drawing

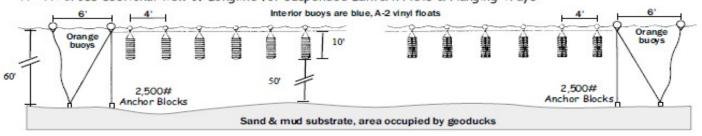
Figure 5. Aquatic Farm Cross-Sectional Diagrams and Drawings Examples



Cross-sectional View showing placement of Vexar Bags in the Intertidal Area



A - A': Cross-sectional view of Longline for suspended Lantern Nets & Hanging Trays



Cross-sectional View of Hardening Site

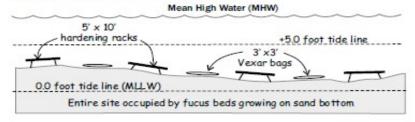


Figure 5 - Detailed Cross-sectional Diagrams and Drawings

Name: Big Bay Aquatic Farm (Jane Doe)

Waterbody: Big Bay

Region: Prince of Wales Island, SE Alaska Today's date: September 19, 2010