

For Office Use Only

ADNR File No: _____

DATE STAMP:

ADF&G No: _____



Alaska Aquatic Farm Program Joint Agency Application – Amendment Request

This form is for use in amending the aquatic farm lease and operation permit authorizations.

The project location is in: Southeast Alaska Southcentral Alaska
 Kodiak Alaska Peninsula Other

A. Applicant Information

Name

ADNR Lease ADL No.

Business Name (If Applicable)

ADF&G AFOP No.

Mailing Address (PO Box or Street Address)

City State Zip

Email Address

Home/Office Phone Cell Phone

B. Proposed Amendment

Check Modifications That Apply

Information Required for Review

Modify aquatic farm site boundaries/locations

Section C

Section D including Maps and Diagrams

AND

Increased Area

Reduced Area

Move Farm Boundaries

-
- | | |
|--|--|
| <input type="checkbox"/> Add or significantly ¹ modify support facility | <input type="checkbox"/> Section E (If floating facility) |
| | <input type="checkbox"/> Sections E & F (If upland facility) |
| | <input type="checkbox"/> Section D-3 c (Site Plan Map with facility) |
| | <input type="checkbox"/> Section D-3 d (Cross Sectional Diagram of facility) |
| | <input type="checkbox"/> Section D-3 e (Detailed Drawing of facility) |
-

Other² _____ Dependent on amendment request

¹Significant modifications include changes that increase obstructions to navigation or to other public uses.

²Other includes production changes or species added if associated with changes to farm site boundary/location.

C. Amendment Description

In the space provided below, please provide a general description of your proposed changes to your aquatic farm site and operations. This should be a narrative of your amendment request that includes changes to your project location or size, new overall size including any hardening areas, 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 a section does not apply to your proposed amendment, please state so. If additional space is necessary, **please attach a separate document labeled "AMENDMENT DESCRIPTION"**. **Example information for project narrative can be found in Attachment I.**

Company Name *(if being changed)*

Site Location Modifications

New Site Dimensions, Acres for Each Parcel *(New Dimensions and calculated area in acres for each parcel being amended and total area in acres of farm after amendment)*

New Support Facilities *(List any new support facilities, i.e. caretaker, storage, processing facilities, work rafts, etc.)*

Construction Materials of New Support Facilities and Equipment *(Note: All floating raft structures should use non-treated wood supported by closed cell expanded polystyrene or equivalent material)*

Species You Intend to Farm (for New Parcels or Changes to Species) *[Include scientific and common species name]*

For New Parcels or Changes to Culture Methods *[Describe operation activities to be done onsite such as outplanting of seedstock, husbandry techniques to be used (culling, sorting, washing, etc.), maintenance and monitoring activities, management of fouling organisms and incidental species, predator control measures, and schedule of activities such as timing of outplanting seeded lines or adding seedstock into trays, etc. Describe what methods you plan to use based on the definition in [5 AAC 41.400\(6\)](#). "Culture" means to use or the use of methods to manipulate the biology and the physical habitat of a desired species to optimize survival, density, growth rates, uniformity of size, and use of the available habitat, and to efficiently produce a product suitable for a commercial market.]*

For New Parcels or Changes to Culture Gear and Equipment (Type, Size, Number, Configuration, Material, and Anchoring System) *[If more than one parcel, indicate what parcel specific gear will be located on. If more than one species, indicate gear to be used for each. Gear includes any structure that holds or protects the organism like trays, tiers of lantern nets, Vexar bags, OysterGro system, grow-out submerged longlines, predator netting, longlines, buoys, depth control systems, etc. Include approximate installation schedule, or if and what gear will remain installed year-round etc.]*

Other *(Anything else that may change from the original project due to the amendment request proposal)*

D. REQUEST FOR SITE BOUNDARY/LOCATION MODIFICATIONS (if applicable)

1. Coordinates

If this amendment request involves modifying the farm site boundaries, please provide new latitude and longitude coordinates for each corner of each parcel at the farm site you are requesting to modify. Parcel designations (number and name) must be the same as in the original lease/permit if modifying existing parcels. Identify each parcel to be used. For example, Parcel 1 - growing area, Parcel 2 - hardening area, etc. Latitude and longitude coordinates must be in **NAD83 datum using degrees and decimal minutes format to the nearest .001 minute (Example: Longitude -133° 17.345)**, obtained using a Global Positioning System (GPS). If you are applying for more than three parcels or your proposed parcels have other than four corners, please provide those coordinates in your project description or on a separate sheet.

Parcel 1: _____
(e.g. Grow-out Area)

NE Corner	No. 1: Latitude _____	Longitude _____
SE Corner	No. 2: Latitude _____	Longitude _____
SW Corner	No. 3: Latitude _____	Longitude _____
NW Corner	No. 4: Latitude _____	Longitude _____

Parcel 2: _____
(e.g. Hardening Area)

NE Corner	No. 1: Latitude _____	Longitude _____
SE Corner	No. 2: Latitude _____	Longitude _____
SW Corner	No. 3: Latitude _____	Longitude _____
NW Corner	No. 4: Latitude _____	Longitude _____

Parcel 3: _____
(e.g. Support Facility Area)

NE Corner	No. 1: Latitude _____	Longitude _____
SE Corner	No. 2: Latitude _____	Longitude _____
SW Corner	No. 3: Latitude _____	Longitude _____
NW Corner	No. 4: Latitude _____	Longitude _____

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.

- 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**.
- Divide the area (sq. ft) of Parcel 1 by 43,560, to convert the area from sq. ft to acres.
- Repeat for each separate Parcel of your proposed amended farm site.
- Add the acreage of each Parcel to get the total tideland acreage for your proposed amended farm site.
- Write the Total Acreage on the line where indicated.
- 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) _____ 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 many total acres of state-owned tidelands are you applying for (add all parcel acres): _____

(Total Acreage)

If you are also applying for state owned uplands for support facilities, how many 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

<https://mapper.dnr.alaska.gov/>

Alaska Ocean Observing System Mariculture Map

<https://mariculture.portal.aos.org/>

NOAA Nautical Charts

www.charts.noaa.gov

ShoreZone Mapping System

<https://www.fisheries.noaa.gov/alaska/habitat-conservation/alaska-shorezone>

Catalog of Anadromous Streams

<https://www.adfg.alaska.gov/sf/sarr/awc/>

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

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

a. **General Location Map** - This map is a larger scaled map showing larger surrounding area with less detail (See 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. Use a National Oceanic and Atmospheric Administration (NOAA) navigational chart and label it "Detailed Location Map" and show the following information:

- NOAA Chart No. _____
- Boundaries of each farm area parcel and clearly label all corners (NE, SE, SW, and NW)
- Directional arrow identifying North
- Scale on map
- Legend box (example on previous page)
- If uplands area is proposed:
 - Location and type of use (e.g. housing, storage shed, etc.)

- c. **Site Plan Map** - Draw an overhead view of the new or adjusted farm area parcel(s) and surrounding area. Label it "Site Plan Map" 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 new support facilities, equipment, and gear showing their placement and anchoring systems. Note that more than one diagram may be required. Label it "Cross-Sectional Diagram" 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 new support facilities, equipment, and gear. 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. REQUEST FOR SUPPORT FACILITIES (if applicable)

1. Your proposed floating personnel/caretaker housing is located on (check one) a lease site or new acreage
2. The proposed personnel/caretaker housing size (in feet) will be: _____ (width) _____ (length) _____ (height)
3. What would be the maximum number of people housed per day? _____
4. Will there be any sewage discharge from any of the personnel/caretaker housing? **Yes** **No**
(Note: To ensure that your growing area can meet water quality standards and be classified by Alaska Department of Environmental Conservation (ADEC) no sewage discharge from a facility will be allowed within 300 feet from the boundary of a ADEC classified growing area. All other discharges will be evaluated separately by ADEC.

Annual rent for associated housing facilities will be determined by fee schedule, reviewed every two years by the Department of Natural Resources Appraisals Section to comply with the two-year age provision of AS 38.05.840. You may stay a maximum of 14 consecutive days at your site on state-owned uplands or tidelands without applying for personnel/caretaker housing.

F. REQUEST FOR NEW UPLAND PROPERTY (if applicable)

1. If you are applying for new state-owned uplands for support facilities, how many total upland acres are you applying for? _____
2. Do you currently lease upland property adjacent to, or near, the current farm site in conjunction with your proposal? **Yes** **No**
3. If you are the adjacent upland owner, are you applying for a preference right under 11 AAC 63.040(f)? **Yes** **No**
4. Are you proposing to use an outhouse and septic systems on the upland property? **Yes** **No**
Outhouse and septic systems must maintain a minimum 100-foot horizontal separation distance from surface waters and a minimum of 4-foot vertical separation distance from the high ground water table. Additional information may be required by DEC depending on the type and complexity of the wastewater system proposed. Please contact the DEC Shellfish Program Coordinator at (907) 269-7636 with any questions.

G. AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the sale or use of state land and resources. 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. 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.

H. APPLICATION SIGNATURE BLOCK

AQUATIC FARM AMENDMENT 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 amendment application fee required under 11 AAC 05.230(d)(3)(A)(E)(i)-(ii)

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 grow-out 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).

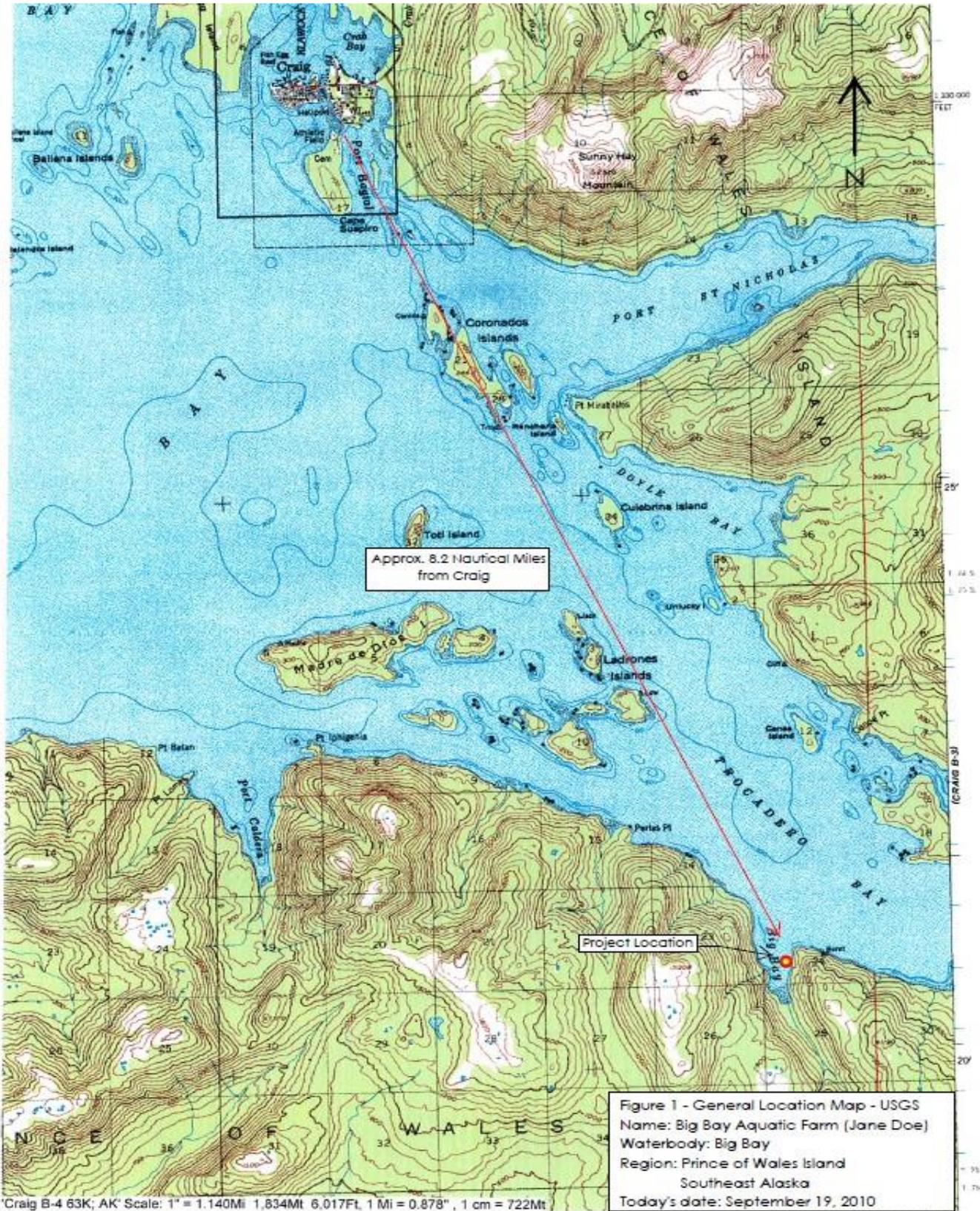
Parcel 2 will be used for hardening and defouling of Pacific oysters, using Aquamesh trays measuring 22 inches wide by 22 inches long by 6 inches deep (Attachment 11).

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)

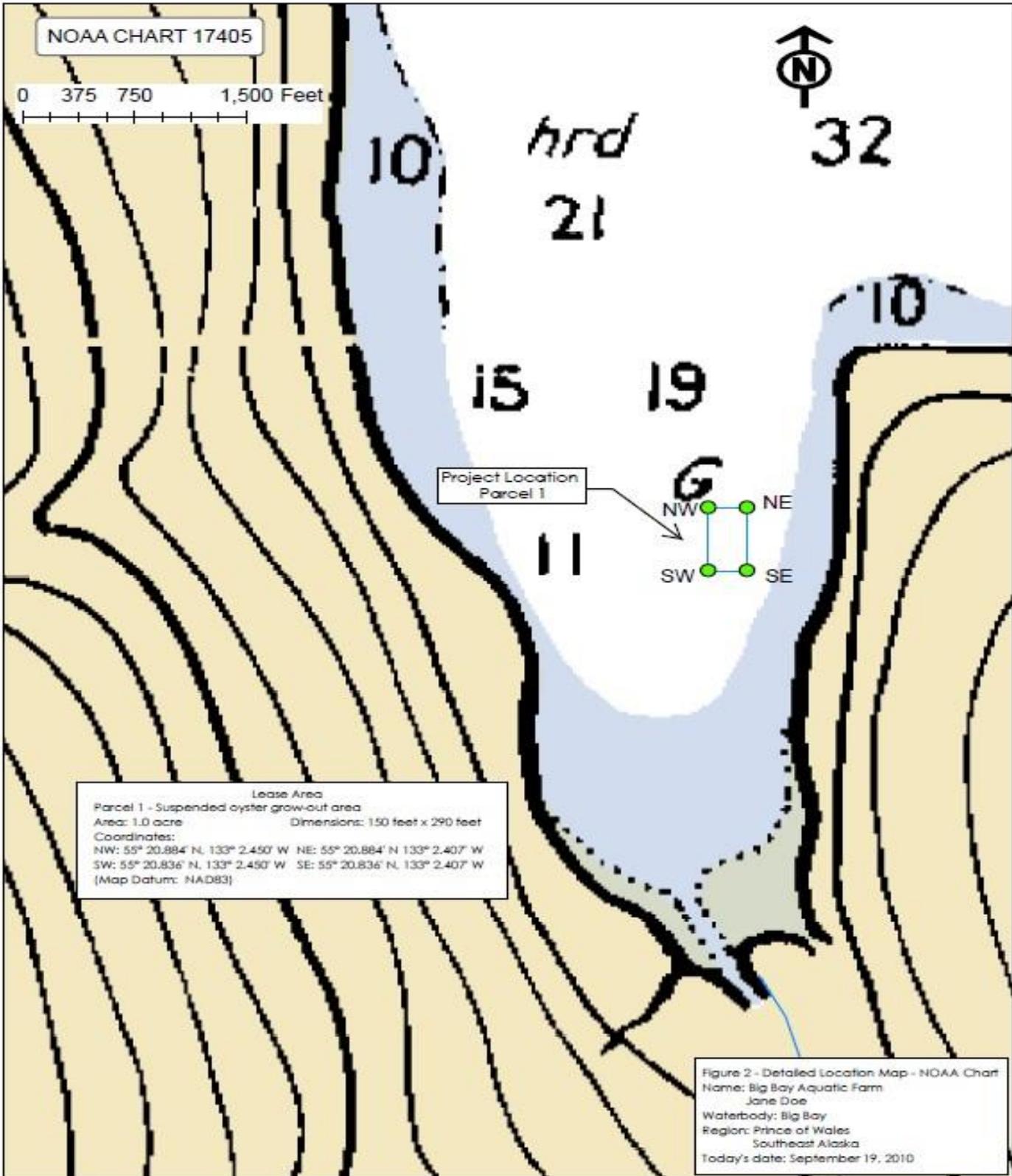
Parcel 4 will contain 20 – 400 ft longlines for culture of aquatic plants. Submerged longlines will be installed seasonally in October. Each line will be suspended 7 feet below the surface with depth-control systems with dropper weights and buoys. Harvest will occur in May and all culture gear removed.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

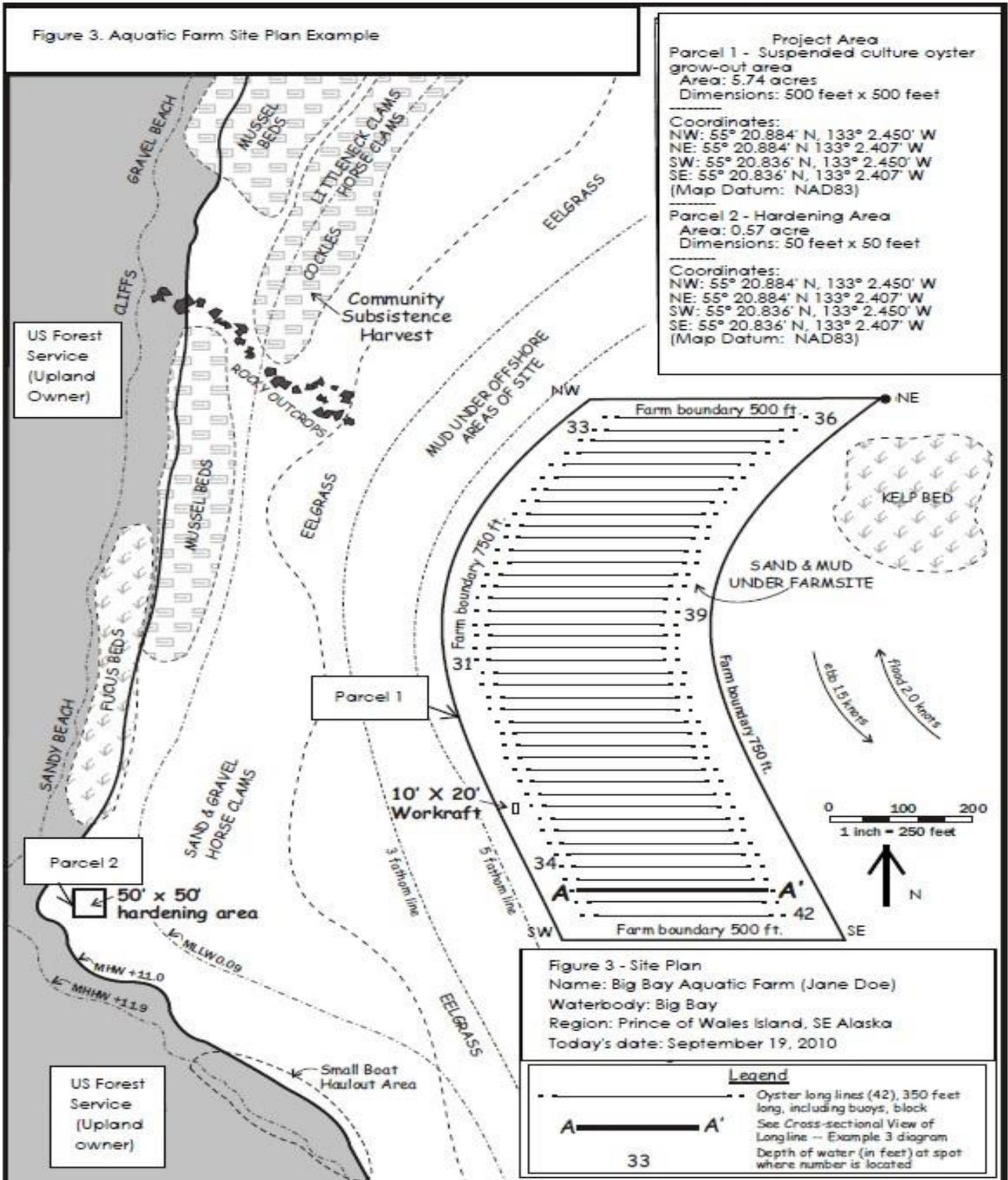
Attachment 2
Figure 1
Example General Location Map



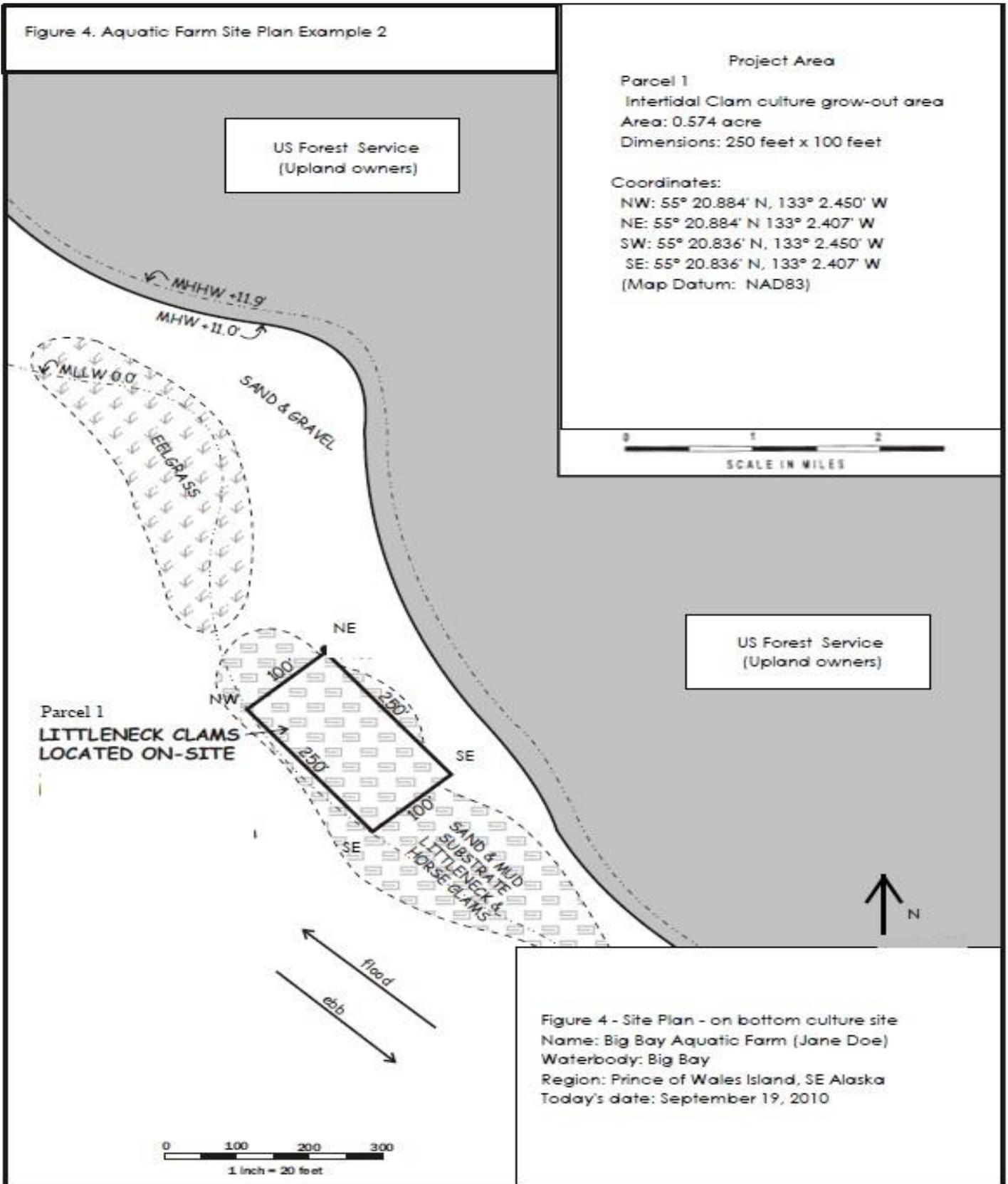
Attachment 2
 Figure 2
 Example Detailed Location Map



Attachment 2
 Figure 3
 Example Site Plan Map



Attachment 2
 Figure 4
 Example Site Plan Map

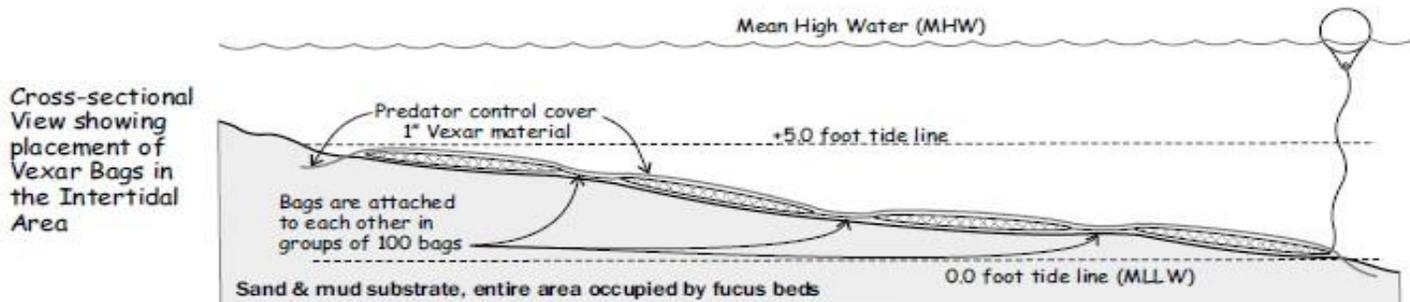
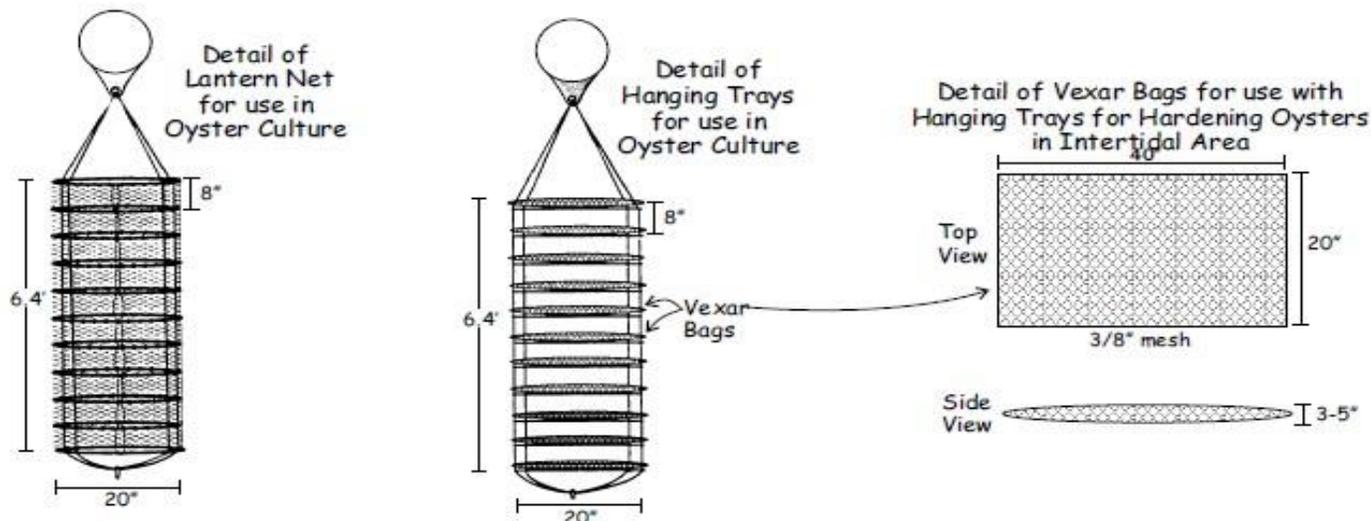


Attachment 2

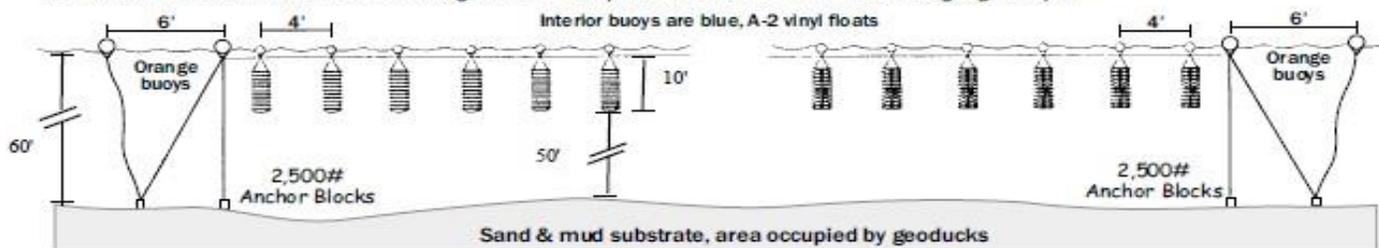
Figure 5

Example Cross Sectional Diagram and Detailed Drawing

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



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



Cross-sectional View of Hardening Site

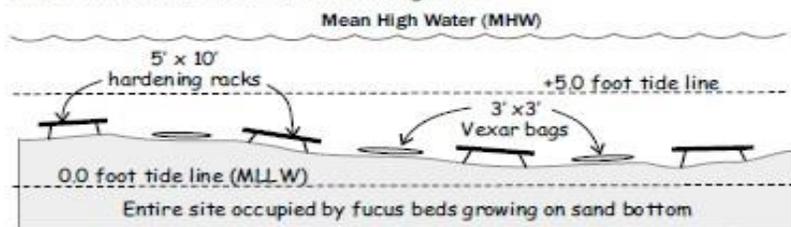


Figure 5 - Detailed Cross-sectional Diagrams and Drawings
 Name: Big Bay Aquatic Farm (Jane Doe)
 Waterbody: Big Bay
 Region: Prince of Wales Island, SE Alaska
 Today's date: September 19, 2010