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ADF&G No: _____

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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☐ OtherThis project is: ☐ First Time Application☒ Renewal Application

A. APPLICANT INFORMATION

Kaawu Shellfish Co. LLC

Name

dba Kaawu Oyster Co. LLC

Business Name (If Applicable)

P.O. Box 206

Mailing Address (PO Box or Street Address)

Hoonah AK 99829

City State Zip

Email Address

n/a

Home/Office Phone

Cell Phone

Anthony Lindoff

Contact Name

Contact Phone Number

n/a

Business Partner Name (If applicable)

Business Partner Email Address (If applicable)

Business Partner Phone (If applicable)

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: 4/1/2024

Company Name

Kaawu Oyster Co. LLC (Anthony Lindoff, sole proprietor) is applying for an aquatic farm lease consisting of two separate 5 acre submerged tidelands parcels and one 0.06 acre hardening beach area located at Burnt Point in Port Frederick, 6.5 miles SW of the community of Hoonah in SE Alaska. The uplands owner is Sealaska Corporation. The farm is located on state of Alaska inter-tidal and submerged lands. Parcel 2 (original aquatic farm lease site) is closest to Grassy Rock at Burnt Point and will be using the surface culture lingline system to farm Pacific oysters. Parcel 1 and Parcel 3 are located less than 1/2 mile NE from Parcel 2, and being better protected from wind, will be utilizing the raft and tray growout method. A floating 25 ft x 50 ft work barge will farm's primary work station where all of the tumbling, sorting, cleaning, and culling and other farm duties will take place.
(See more detailed in Attachment 1- Project Description)

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.]*

Waterbody: Burnt Point, Port Frederick, six nautical miles from Hoonah, Southeast Alaska

Parcel 1: Work barge and raft & tray growout system

NE Corner 1: 58° 3.0538' N and 135° 32.7607'; SE Corner 2: 58° 2.9652' N and 135° 32.7607'

SW Corner 3: 58° 2.9652' N and 135° 32.8856'; NW Corner 4: 58° 3.0538' N and 135° 32.8856'

Parcel 2: Floating bag array

NE1: 58° 2.704' N and 135° 33.071' W; SE2: 58° 2.661' N and 135° 33.053' W; SW3: 58° 2.632' N and 135° 33.296' W;

NW4: 58° 2.675' N and 135° 33.314' W

Parcel 3: Hardening area, NE Corner 1: 58° 3.060' N and 135° 32.766' W, SE2: 58° 3.042' N and 135° 32.748' W; SW3:

58° 3.042' N and 135° 32.760' W; NW4: 58° 3.060' N and 135° 32.772' W

Site I, Acres for Each Parcel

Parcel 1 rectangular: 350'x620'= 4.98 acres

Parcel 2

Dimensions (rectangular): 269 ft. x 800 ft.= 4.94 acres

Parcel 3 (hardening beach): 100'x30' = .06 acres

Total (P1+P2+P3) = 9.98 acres

Total Acres of All Parcels

P1, P2, and P3 Total acres = 9.98 acres

Species You Intend to Farm *[Include scientific and common species name]*

1. Pacific Oyster (*crassostrea gigas*)

No other species, only wish to farm oysters at present.

Culture Method [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.]

Kaawu will continue to utilize the deep-water suspension method, deploying both the raft and tray and floating basket culture methods. The farm will have a wooden barge that'll serve as its main work platform, in which all of the tumbling, sorting, washing, culling, and outplanting of new oyster seed will take place. Outplanting occurs 1 to 2 times per year, ideally at the beginning of summer and beginning of fall. Starfish and other fouling organisms will be promptly returned to the water surrounding the barge.

Kaawu will use the floating vexar mesh bags for outplanting oyster seed and shaping for the first year before transferring the oysters to the wire mesh trays for final grow-out on the rafts. Upon reaching commercial size, the oysters will be transferred to the intertidal zone (+0' to +3' tide line) for beach hardening for a minimum of two weeks before being harvested. No gear needed for hardening, simply utilizing vexar mesh bags and placed on beach.

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.]

The grow-out rafts will be made of non-treated lumber and rotomolded dock floats, connected via longline, while the trays are vexar mesh oyster bags are manufactured by Aqua-Pacific Wire & Mesh. Kaawu will use Vexar mesh bags for both oyster surface culture longline and beach hardening stage. Beach hardening doesn't require gear other than vexar mesh bags; upon saleable size the oysters will be counted and placed into mesh bags (10 dozen per bag) and into intertidal area directly behind the work barge.

The work barge and grow-out rafts will be made of the same material and components: non-treated lumber, rotomolded plastic dock floats and galvanized hardware.

Parcel 1 is where most of the husbandry (tumbling, sorting, cleaning, culling, etc.) will take place, as it's the most protected from the weather and best suitable for grow-out rafts and the work barge. one Work barge with yurt and two!grow rafts will utilize 4 anchors and two buoys for its anchoring system.

Parcel 2 is where the floating tray array system will be deployed, requiring 2 anchors and 2 bouys on either end of the array. Parcel 3 is vexar bags placed on the beach for hardening process.

Seed Acquisition Plan (Commercially produced and/or wildstock) *[Commercially produced juveniles or seed stock must be obtained from an approved seed source. Do you intend to collect wildstock juveniles or natural set organisms for direct culture on your proposed site? Yes/No. If yes, describe collection methods (applicable for indigenous species: i.e. mussels, scallops, abalone, natural set aquatic plants, etc. This does not refer to broodstock collection on behalf of hatcheries for propagation. If increasing number of acquisitions per year, indicate projected amounts per year. Aquatic plant species can be combined into total feet of line per year.]*

Kaawu will continue to purchase oyster seed on an annual basis from Blue Starr Nursery in Token Cove. Upon receiving approved Shellstock Transport Permit (STP), we will outplant oyster seed at 1-2 times throughout the growing season (May-October).

Harvest Equipment and Method *[Describe harvest equipment and methods to be used, activities to be done onsite, and schedule of harvest of aquatic farm product. If more than one species, include harvest information for each species or group of species like macroalgae if the harvest information is the same.]*

Kaawu will utilize its work barge as its primary work platform, where it will perform husbandry and harvesting methods, as well as a work center to build and repair grow-out gear and common farm maintenance activities. The work barge has a 25' tall mast and 20' aluminum boom that helps lift stacks of trays from the growout rafts onto to barge for husbandry activities, primarily tumbling and sorting of oysters. Oysters will be run through QuickTube tumbler sorter and back into designated growout system (raft or floating bag). Once oysters are deemed saleable, they'll be placed into vexar mesh bags, 10 dozen oysters per bag, and onto the beach for minimum two weeks. No gear or floats required for hardening stage—simply mesh bags for safe holding. When time to harvest, oysters will be washed down with water pump and hose, placed in plastic commercial fish tote/cooler, and then immediately taken to Icy Strait Point Commissary for boxing and storing until ready for shipment to customers.

Support Facilities (Type, Size, Number, Configuration, Material, and Anchoring) *[Support facilities include caretaker facility, storage rafts, work rafts, processing rafts, etc.]*

25'x50' non-treated wooden work barge (with rotomolded billets for flotation), complete with yurt, QuickTube tumbler-sorter, and mast and boom for picking stacks of oysters. Work barge shares anchoring system as grow out rafts: two anchors in rear and two anchors in front, with two buoys.

Access to and from Site [Include nearest community, transportation type used and how many times traversing back and forth]

Primary access to and from the sites will be by skiff, and upon occasion via motor vehicle. Hoonah is the nearest community, 6.5 miles by skiff or 45 minute truck drive via road system. We expect to travel to farm minimum 3-4 days per week during the year (slightly more frequently during the growing season and less frequently in the winter months).

Storage Location of Equipment and Gear When Not in Use [Include whether on private lands and nearest community]

The work barge will store most grow-out gear and equipment, and personal property located in Hoonah will store excess gear and equipment.

C. PROJECT OPERATION PLAN

1. How will support facilities, culture gear and anchoring systems be maintained?

- a. 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.?

Growing season 20 (days/month) **Off months** 14 (days/month)

- b. How will you keep the gear and shellfish free of fouling organisms (hot-dip, air dry, pressure washing, etc.)?
Kaawu will use the air dry method to keep gear free fouling organisms, and tumble, sort, and wash oysters.

- 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)?
Upon discovery, sea stars will be promptly returned to their natural environment (tossed overboard). Other biofouling measures will be accomplished by air drying.

- d. If you intend to use predator netting, how long will you keep netting over your product?
0 (months)

- e. If using predator netting, how will you minimize impacts on non-target species, including seabirds, seals, sealions, walrus and whales?
n/a

2. Projected Harvest Rotation Consistent with Life History

- a. How often do you intend to harvest your product by species?

Once per week during the harvest/growing season (May-October).

- b. Do you plan on utilizing density manipulation by culling or redistribution?
No.

- c. What techniques will be used to optimize growth or condition of product?
The use of the floating basket array coupled with tumbling and sorting during final grow out will optimize growth and quality.

3. Acquisition of hatchery or wild seed

- a. Will you use a certified or approved shellfish seed source(s)? Yes * ☒ No ☐
- b. Will you use an Alaska kelp hatchery? Yes ☐ No ☒
- c. How do you intend to collect wild seed? (Applicable for indigenous species: i.e. clams, natural set kelp, invertebrates, etc.)
n/a

4. Describe how operation of the aquatic farm will improve the productivity of species intended for culture not covered by the previous questions (examples: predator exclusion, reduction of competing species, density manipulation by culling/redistribution, importing natural or hatchery seed, program harvest to optimize growth/condition and habitat improvement)?

We will purchase premium oyster seed from a reputable seed nursery (Blue Starr, Token Cove). Also, such great access to allows for more days on the farm. Floating bag array system greatly reduces starfish/sea star predation, allowing oysters to grow in stress-free environment as well as providing much labor savings.

D. PROJECT LOCATION

1. Coordinates

Please provide latitude and longitude coordinates for each corner of each parcel at the proposed farm site. 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: Work Barge and Rafts (e.g. Grow-out Area)	NE Corner No. 1: Latitude	58 3.0538 " N	Longitude	135° 32.7607 ' W
	SE Corner No. 2: Latitude	58 2.9652 " N	Longitude	135° 32.7607 ' W
	SW Corner No. 3: Latitude	58 2.9652 " N	Longitude	135° 32.8856 " W
	NW Corner No. 4: Latitude	58 3.0538 " N	Longitude	135° 32.8856 " W
Parcel 2: Floating bag array (e.g. Hardening Area)	NE Corner No. 1: Latitude	58° 2.704 " N	Longitude	135° 33.071 " W
	SE Corner No. 2: Latitude	58° 2.661 " N	Longitude	135° 33.053 " W
	SW Corner No. 3: Latitude	58° 2.632 " N	Longitude	135° 33.296 " W
	NW Corner No. 4: Latitude	58° 2.675 " N	Longitude	135° 33.314 " W
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.

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:	350	feet (x)	620	feet =	217,000	square feet (÷)	43,560 =	4.98
	(Width of Parcel 1)		(Length of Parcel 1)		(Area)			(Acres)
Parcel 2:	269	feet (x)	800	feet =	215,200	square feet (÷)	43,560 =	4.94
	(Width of Parcel 2)		(Length of Parcel 2)		(Area)			(Acres)
Parcel 3:	30	feet (x)	100	feet =	3000	square feet (÷)	43,560 =	.06
	(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):								9.98
								(Total Acreage)

If you are also applying for state owned uplands for support facilities, how many total upland acres? 0
(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.aoo.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: Juneau A-5
 - ☐ 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. US4AK5Q1
 - ☐ 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 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 Previous site is direct hit of NW storm/current; new site is well protected.
2. Does your site have suitable water exchange for species of culture? **Yes** ☐ **No** ☐
3. Are water temperatures suitable for proposed species of culture? **Yes** ☐ **No** ☐
(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** ☐ **No** ☐
(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** ☐ **No** ☐
6. Have you monitored the phytoplankton (microalgae) abundance and types during the main grow-out season?
Yes ☒ **No** ☐ **If yes, findings:** Secchi disc only, proven abundant and productive waters for oysters and shellfish
(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** ☐ **No** ☐
Substrate and vegetation? yes, however on-bottom is more susceptible to starfish predation.
9. For on-bottom culture, how will bottom characteristics be made suitable if not already?
N/A, I'm not proposing any on-bottom culture of oysters or any other species.
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): 12 Water depth at low tide (in ft): 40
11. Is your proposed site more than 300 ft from an anadromous fish stream? **Yes** ☐ **No** ☐
12. Are you aware of any eelgrass or kelp beds on or near your proposed farm site? **Yes** ☐ **No** ☒ If yes, describe:
My proposed area is free of eelgrass and kelp beds.
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** ☒ Additional information
N/A
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** ☐ **No** ☒ If yes, describe how your farm can be sited to mitigate conflicting uses?
My proposed site is tucked away and doesn't impede or get in way of boat traffic or existing fisheries. Dungeness crab fishermen set gear all around Port Frederick and Burnt Point and haven't had any issues with commercial fisheries/fishermen, or subsistence users.

F. KNOWN EXISTING USES

Please check the boxes below, to indicate existing human and/or wildlife uses observed or known to exist at or within one mile of the proposed farm site. Indicate the locations of these existing uses on the Site Plan Map if specific locations are known (refer to page 8, Section 3c).

- | | |
|--|---|
| ☐ mining | ☐ other aquatic farm projects |
| ☐ timber harvest or transfer | ☒ commercial fishing |
| ☐ residential use | ☒ sport fishing |
| ☐ harbor development | ☐ salmon hatcheries |
| ☐ sheltered boat anchorage | ☒ hunting |
| ☐ seaplane landing | ☐ seafood processing plant |
| ☐ commercial lodges | ☒ upland access route(s) areas, bear trails, etc. |
| ☐ sightseeing | ☐ wildlife use, (e.g. shorebirds, sea mammal haul-outs) |
| ☒ recreation | ☒ subsistence; list species and frequency |
| ☒ tourism | sport fishermen, clam and cockle harvesting, sea asparagus |
| ☐ historical/cultural/archaeological site | located at Burnt Point too. |

☐ navigational channels: site is located out of way of navigational channels, and is marked with large buoy.

☐ other; list My oyster farm has existed in Burnt Point for 8 years continuously with zero conflicts with other users.

G. SUPPORT FACILITIES

1. Personnel/Caretaker Housing (additional annual fees apply)

Are you proposing any personnel/caretaker housing? **Yes** ☐ **No** ☒

If yes, the proposed size will be: _____ (Width) _____ (Length) _____ (Height)

Please attach diagrams/drawings with labels clearly showing the Personnel/Caretaker housing.

Note: you may stay a maximum of 14 consecutive days at your site on state-owned uplands or tidelands without applying for personnel/caretaker housing.

2. Enclosed Processing Facility

Are you proposing any enclosed processing facility? **Yes** ☐ **No** ☒

If yes, the proposed size will be: _____ (Width) _____ (Length) _____ (Height)

Please be sure the processing facilities are included in the maps and diagrams described in the Maps and Diagrams section above.

3. Upland Property

Do you currently own or lease upland property adjacent to, or near, the proposed farm site that you plan to use in conjunction with your proposal? **Yes** ☐ **No** ☒ **If yes**, attach a copy of ownership deed or lease.

If you are the adjacent upland owner, are you applying for a preference right under 11 AAC 63.040(f)?

Yes ☐ **No** ☒

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.

CITY/BOROUGH	PHONE	CONTACTED?
☐ City of Cordova	907-424-6220	Yes ☐ No ☐
☐ City of Klawock	907-755-2261	Yes ☐ No ☐
☐ City and Borough of Wrangel.....	907-874-2381	Yes ☐ No ☐
☐ City of Craig – Planning & Zoning.....	907-826-3275	Yes ☐ No ☐
☐ City and Borough of Juneau – Permit Center	907-586-5252	Yes ☐ No ☐
☐ City and Borough of Sitka – Planning & Community Development	907-747-1814	Yes ☐ No ☐
☐ City of Thorne Bay.....	907-828-3380	Yes ☐ No ☐
☐ City and Borough of Yakutat – Planning & Zoning Commission	907-784-3323	Yes ☐ No ☐
☐ Kenai Peninsula Borough – Land Management Division	907-714-2205	Yes ☐ No ☐
☐ Kodiak Island Borough – Community Development	907-486-9363	Yes ☐ No ☐
☐ Lake and Peninsula Borough – Community Development.....	907-246-3421	Yes ☐ No ☐
☐ Aleutians East Borough – Permitting	907-383-2699	Yes ☐ No ☐
☐ Ketchikan Gateway Borough – Planning & Community Development	907-228-6610	Yes ☐ No ☐
☐ Haines Borough	907-766-6401	Yes ☐ No ☐

Type of Authorization required by City or Borough: Contacted City of Hoonah (not in a Borough); no Auth. req'd,

I. WATER QUALITY INFORMATION – Department of Environmental Conservation

- Do you plan to use a boat on your farm site? Yes ☐ No ☒ If yes, indicate the type of marine sanitation device. on boat honey bucket (5 gallon plastic)
- If you plan to have personnel housing or caretaker facilities:
Will wastewater be discharged from these facilities? Yes ☐ No ☒ If yes, what are the daily maximum and average discharge volumes? Maximum _____ Average _____
- Were there any sources of past pollution at the site, such as a shore-based seafood processor, log transfer facility, industrial facility, oil spill contamination, or town or village? Yes ☐ No ☒ Unknown ☐
If yes, identify:
 - The type of previous use (e.g. mine, village, seafood processor, oil spill).
 - The last known date of use. _____
 - The distance from site previously used to your proposed site. _____

4. Are you aware of any current potential sources of human or industrial pollution in the area? (e.g. sewage outfalls, oil contamination, industrial transfer facilities upland operations, boat harbors, etc.)

Yes ☐ **No** ☒ **If yes, describe:**

a. The type of discharge(s).

b. The location and distance from your site.

c. The name of the discharger(s), if known.

5. Are you aware of any other planned development in the general area of your proposed site?

Yes ☐ **No** ☒ **If yes, describe the planned development.**

6. ADEC 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
-

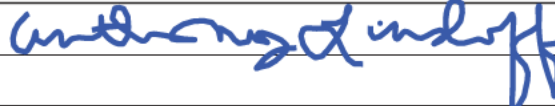
J. APPLICATION SIGNATURE BLOCK

**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 Anthony Lindoff

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

PROJECT DESCRIPTION

Kaawu Oyster Co-Anthony Lindoff

6.4.2025

The proposed oyster farm will consist of three separate parcels located on state-owned submerged lands, totaling about 9.98 acres. Parcels include:

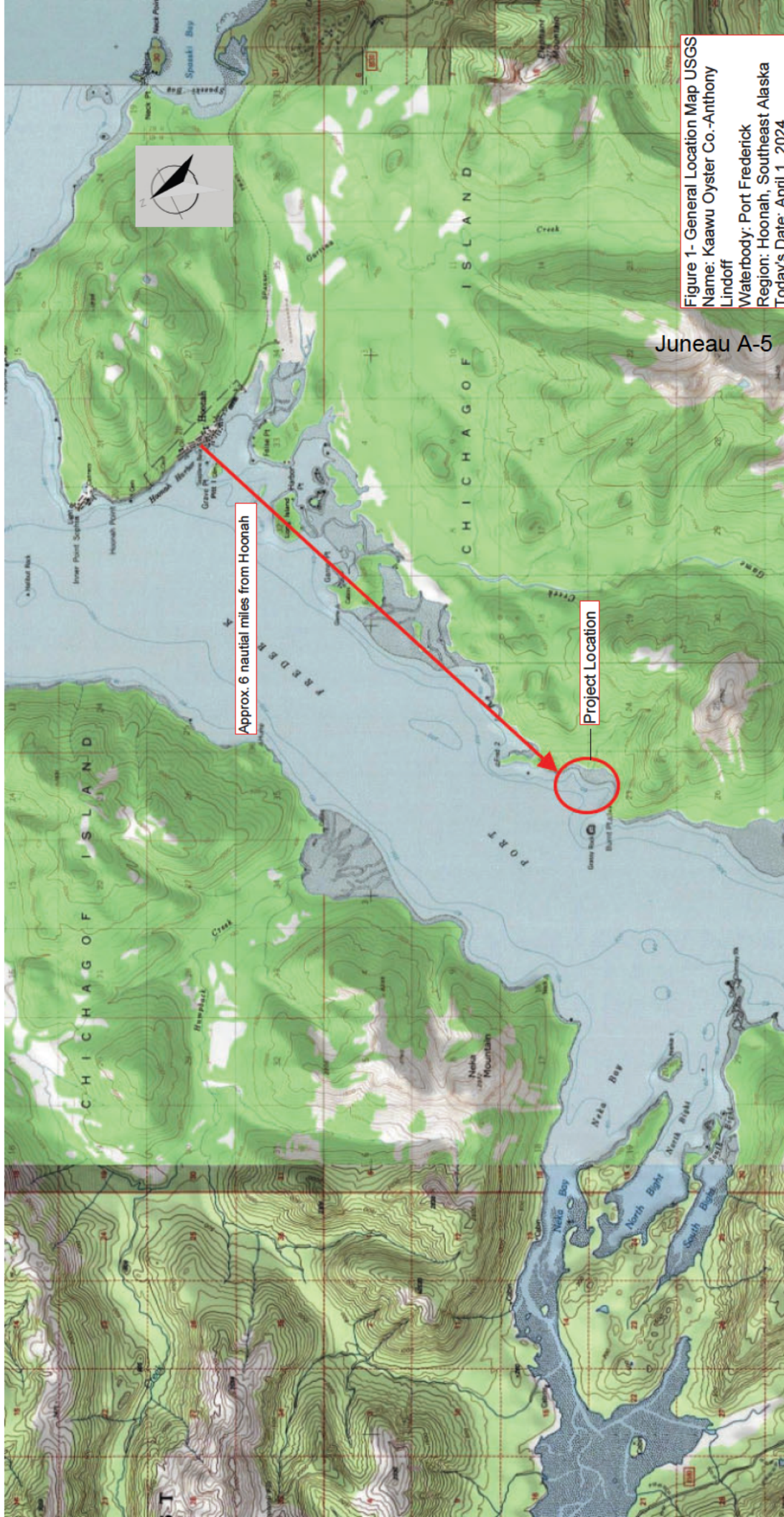
- Growing area measuring 350 ft x 620 ft (4.98 acres) for subtidal suspended culture of Pacific oysters using grow-out raft and cage system (Parcel 1).
- Secondary growing area measuring 269 ft x 800 ft (4.94 acres) for surface culture of Pacific oysters using floating bag system (Parcel 2)
- Hardening beach 30ft x 100 ft (0.06 acres) for vexar bags placed in intertidal zone (Parcel 3)

The proposed aquatic farm is located about 6.5 miles south of the community of Hoonah near Burnt Point, a small, protected cove in Port Frederick near Grassy Rock. (Attachment 2 and 3)

Parcel 1 will hold the work barge (25 ft x 50 ft) and two (2) 24 ft x 24 ft oyster grow-out rafts. Each grow-out raft will use 200 to a maximum of 800 Aquamesh cages stacked 10 high. Each cage measures 24 inches x 24 inches x 5 inches deep, manufactured of 1 inch by 1 inch PVC coated wire mesh. The 5ft-6ft stacks of cages will hang 4ft to 6ft under the water's surface. The anchor system for Parcel 1 would consist of floating anchor lines from each corner secured using four (4) 300 lb concrete anchors in water ranging from 30 ft deep to 60 ft deep, attached to large buoy on either end. All rafts are constructed of non-treated local wood with flotation made of closed cell (extruded) rotomolded dock floats. (Attachment 4)

Parcel 2 is closest to Grassy Rock and will be used exclusively for pacific oyster surface culture longline grow-out system, using vexar mesh bags and floats. The floating bag system will consist of 100 to a maximum 400 floating bags, with one buoy on either end. Each end of the longline system will be secured using two (2) 300 lb concrete anchors, attached to buoys on either end (Attachment 5-7).

Parcel 3 is located less than 600 ft directly behind Parcel 1 and work barge. It will be used as a hardening beach where vexar bags are placed in the intertidal zone. Its dimensions are 30 ft x 100 ft (0.06 acres).



Juneau A-5

Figure 1- General Location Map USGS
Name: Kaawu Oyster Co.-Anthony
Lindoff
Waterbody: Port Frederick
Region: Hoonah, Southeast Alaska
Today's Date: April 1, 2024

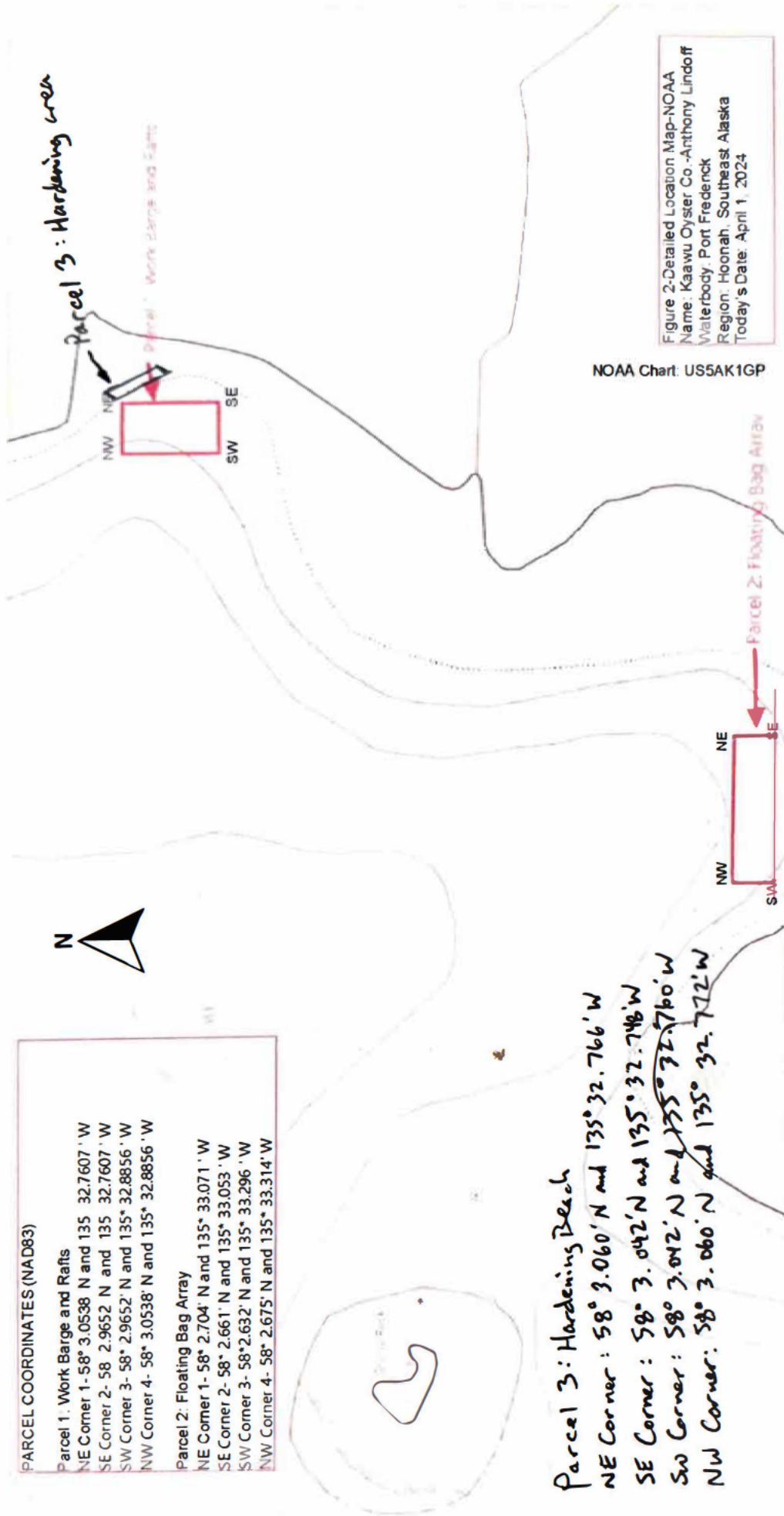
PARCEL COORDINATES (NAD83)

Parcel 1: Work Barge and Rafts

NE Corner 1- $58^{\circ} 3.0538' N$ and $135^{\circ} 32.7607' W$
 SE Corner 2- $58^{\circ} 2.9652' N$ and $135^{\circ} 32.7607' W$
 SW Corner 3- $58^{\circ} 2.9652' N$ and $135^{\circ} 32.8856' W$
 NW Corner 4- $58^{\circ} 3.0538' N$ and $135^{\circ} 32.8856' W$

Parcel 2: Floating Bag Array

NE Corner 1- $58^{\circ} 2.704' N$ and $135^{\circ} 33.071' W$
 SE Corner 2- $58^{\circ} 2.661' N$ and $135^{\circ} 33.053' W$
 SW Corner 3- $58^{\circ} 2.632' N$ and $135^{\circ} 33.296' W$
 NW Corner 4- $58^{\circ} 2.675' N$ and $135^{\circ} 33.314' W$



Parcel 3: Hardening Beach

NE Corner : $58^{\circ} 3.060' N$ and $135^{\circ} 32.766' W$
 SE Corner : $58^{\circ} 3.042' N$ and $135^{\circ} 32.748' W$
 SW Corner : $58^{\circ} 3.042' N$ and $135^{\circ} 32.760' W$
 NW Corner : $58^{\circ} 3.060' N$ and $135^{\circ} 32.772' W$

Figure 2-Detailed Location Map-NOAA
 Name: Kaa'u Oyster Co.-Anthony Lindoff
 Waterbody: Port Frederick
 Region: Hoonah, Southeast Alaska
 Today's Date: April 1, 2024

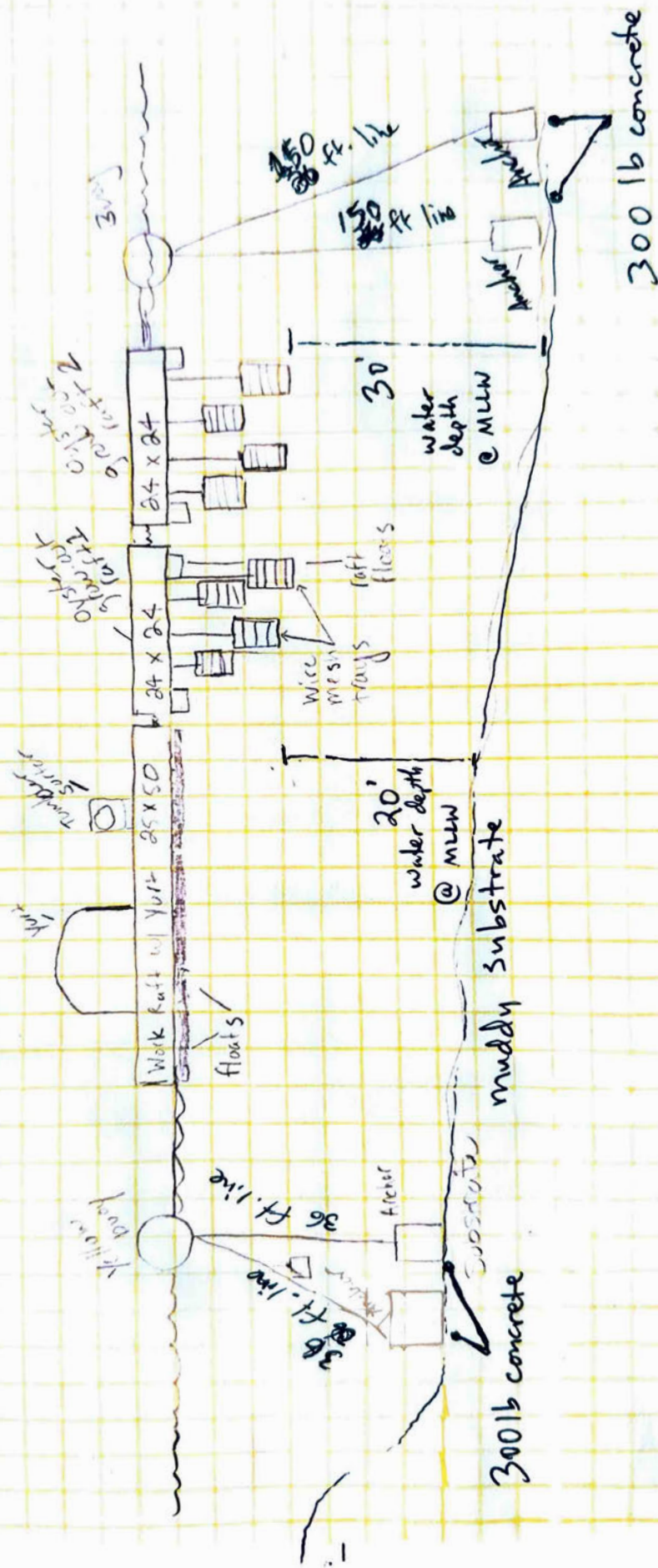
NOAA Chart: US5AK1GP

A hand-drawn map on yellow grid paper showing a coastal area. At the top, a wavy line represents the shoreline, labeled "Fred Point". Below the shoreline, a rectangular area is outlined. The top-left corner of this rectangle is labeled "NW" and "620ft". The bottom-left corner is labeled "SW" and "620ft". The left side of the rectangle is labeled "350ft". Inside the rectangle, there are three small squares in a row, with a circle to the right of the middle square. To the right of the rectangle, a line extends from the top-right corner, labeled "Non encumbrances". Further right, there are two labels: "Parcel 1 Work Barge and two 21x24 oyster grow ra" and "Parcel 3 Hardening beach". A line labeled "1100 ft" points from the "Parcel 1" area towards the rectangle. Another line labeled "1100 ft" points from the "Parcel 3" area towards the rectangle. A line labeled "350 ft" points from the "Parcel 1" area towards the rectangle. A line labeled "350 ft" points from the "Parcel 3" area towards the rectangle. A line labeled "350 ft" points from the "Parcel 1" area towards the rectangle. A line labeled "350 ft" points from the "Parcel 3" area towards the rectangle.

Burnt
Point

Figure 3- Site Plan M
Name: Kaawu Oyster Co
Water body: Port Frederic
Region: Hoonah, South
April 1, 2024

Figure 4 - Parcel 1
 Name: Kaawu Oyster (Anthony Lindoff)
 Waterbody: Port Frederick
 Region: Hoonah, Southeast AK
 April 1, 2024



Attachment 5 - Parcel 2

Kaawu Oyster Co.

Waterbody: Port Frederick

Region: Hood Canal, SOG 2000

Date: 4/1/24

Figure 2a Cross-sectional view Alaskan Pacific Oyster Surface Culture Longline (grower fill in G)

(not to scale)



D (longline section of 200 bags)

B

C

600 ft.

E

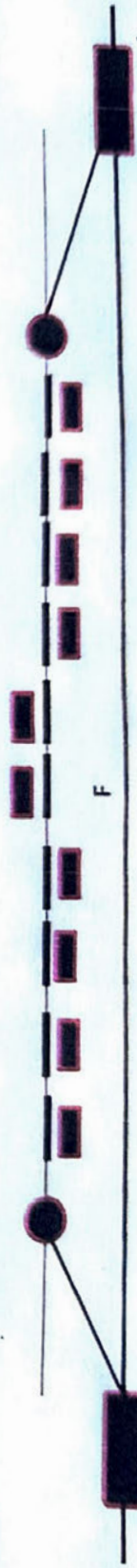
A

G 36 feet

300 lb concrete anchor weights

300 lb concrete anchor weights

- A. Mooring (grower fill out in Figure 2d)
- B. Surface mooring ball 18 inch diameter 100 lb. displacement
- C. 3/8 inch oyster longline with floating mesh bags or baskets clipped in with longline clips
- D. Longline with oyster bags or oyster baskets (See Figure 2c for details)
- E. Grower fill out in Figure 2d - mooring rope (3/1 scope typical)
- F. Alternate cross-sectional view of oyster baskets G. Water depth at low tide



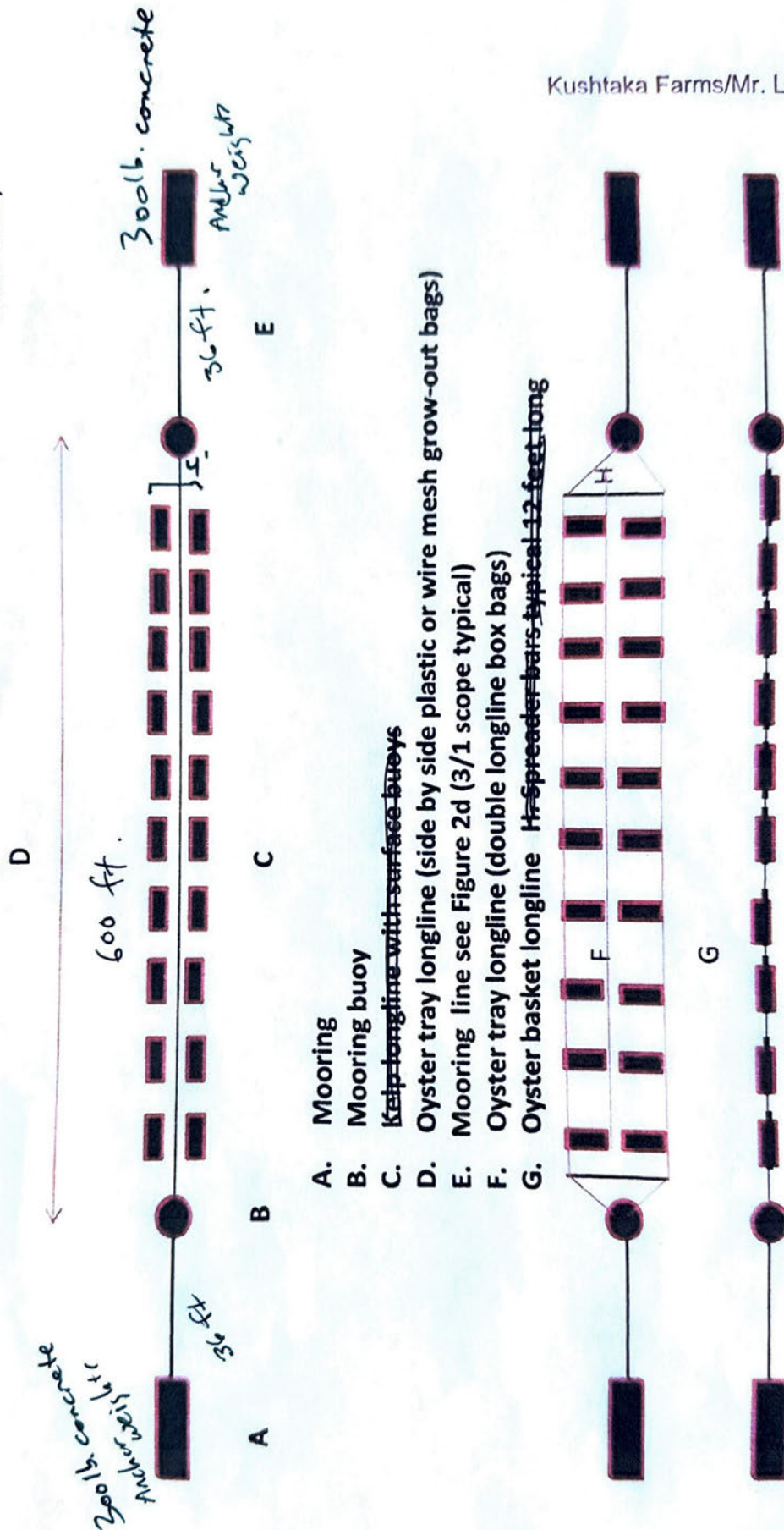
Rocky substrate

silt & mud substrate

Figure 6 - Parcel 2
 Name: Kaawu Oyster (Anthony Lindoff)
 Waterbody: Port Frederick
 Region: Hoonah, Southeast AK
 April 1, 2024

Plan view Alaskan Oyster Surface Culture Longline

(not to scale)



- A. Mooring
- B. Mooring buoy
- C. ~~Keel longline with surface buoys~~
- D. Oyster tray longline (side by side plastic or wire mesh grow-out bags)
- E. Mooring line see Figure 2d (3/1 scope typical)
- F. Oyster tray longline (double longline box bags)
- G. Oyster basket longline ~~H=spreader bars typical 12 feet long~~

Kushtaka Farms/Mr. Lindoff

Figure 7: Detailed Drawing

Name: Kaawu Oyster (Anthony Lindoff)

Waterbody: Port Frederick

Region: Hoonah, Southeast AK

April 1, 2024

1. Detail on individual oyster trays (A. vexar pouch with foam floats on top), double trays (B. vexar box with foam floats on side 3 lines), side by side double trays (C. vexar pouch with foam floats on top, one line).

