

**STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND AND WATER
SOUTHCENTRAL REGION LAND OFFICE**

**PRELIMINARY BEST INTEREST FINDING
AQUATIC FARMSITE LEASE**

**APPLICANT: Anthony Lindoff
ADL #108091
DBA: Coho Properties, LLC**

LOCATION: PORT FREDERICK

The Department of Natural Resources is accepting public comment on the following preliminary decision document for an aquatic farm site lease proposal. **Written comments must be received on or before 5:00 p.m., Thursday, September 15, 2011.**

PROPOSED ACTION: The applicant is requesting the approval of 3 separate growing areas totaling 14.88 acres located in Port Frederick near the community of Hoonah, Alaska. The proposed sites will use the raft and tray (suspension system) method. The rafts will be constructed of non-treated lumber and connected via longlines; the tray will be made of wire mesh. Each site will need four anchors (two on either end of the longline). There will be no hardening area or any use of the intertidal area. Access to and from the sites will be by skiff only.

In the first year, each site will have one oyster raft and one work raft. In year two, site 1 will add two more rafts and sites two and three will add one more raft. Collectively, the sites will have a total of five oyster rafts and two works rafts. By year five the sites are projected to produce in excess of 325,000 oysters.

Parcel #1, located at Fred Point, approximately one mile north of Burnt Point is proposed to be 430 ft. x 500 ft. utilizing suspended oyster gear for a total of 4.94 acres.

Parcel #2, located approximately one mile north of Burnt Point is proposed to be 269 ft. x 800 ft. for suspended oyster gear for a total of 4.94 acres.

Parcel #3, located in North Bight is proposed to be 500 ft. 435 ft. for suspended oyster gear for a total of 5.0 acres.

Note: The applicant made modifications on August 10, 2011, to reduce Parcel 3 from 20 acres to 5 acres due too the possible Dungeness crab harvests near the area detected by ADFG.

The total combined acreage of the sites will be 14.88 acres, more or less.

The farm site locations are only accessible by boat or floatplane. A location map is attached to this decision.

AUTHORITY: AS 38.05.035; AS 38.05.070; AS 38.05.075; AS 38.05.083; AS 38.05.127;
AS 38.05.128; 11 AAC 63.020

This decision addresses and is based on those issues under the authority of the Department of Natural Resources (DNR) under Title 38. While other issues may be addressed that are not within the scope of DNR's

responsibilities, this decision's purpose is to determine whether or not to issue a DNR lease and does not make any determinations whatsoever on the issuance of other agency authorizations that are necessary for aquatic farming activities. Information included in the original preliminary decision document may not be included in this document if conditions have not been altered. Original preliminary decisions for this lease can be obtained by contacting the aquatic farm program manager for the DNR in Anchorage.

ADMINISTRATIVE RECORD: The administrative record for this renewal application is **ADL 108091**

LOCATION:

USGS MAP COVERAGE: Juneau (A-5)

NAUTICAL CHART: 17302

LEGAL DESCRIPTION:

Township 44 South, Range 61 East, Copper River Meridian,
and more specifically described as:

Section 12: SW ¼, east of Fred Point in Port Frederick, encompassing an area measuring 430 ft. x 500 ft. for shellfish grow-out;

Section 23: N ½, east of Grassy Rock and just north of Burnt Point, encompassing an area measuring 269 ft. x 800 ft. for shellfish grow-out;

Section 19: S ½, located in the northeast portion of North Bight, encompassing an area measuring 500 ft. x 1,742 ft for shellfish grow-out, according to the drawings attached to this document and labeled as Attachment B, containing approximately 4.88 acres, more or less.

Parcel 1 – Suspended Oysters Culture Area – 430 ft. x 500 ft. = 4.94 acres

NE Corner: Latitude 58° 3.823' N Longitude 135° 32.030' W
SE Corner: Latitude 58° 3.753' N Longitude 135° 32.025' W
SW Corner: Latitude 58° 3.750' N Longitude 135° 32.180' W
SE Corner: Latitude 58° 3.821' N Longitude 135° 32.185' W

Parcel 2 – Suspended Oyster Culture Area - 269 feet x 800 feet = 4.94 acres

NE Corner: Latitude 58° 2.704' N Longitude 135° 33.071' W
SE Corner: Latitude 58° 2.661' N Longitude 135° 33.053' W
SW Corner: Latitude 58° 2.632' N Longitude 135° 33.296' W
SE Corner: Latitude 58° 2.675' N Longitude 135° 33.314' W

Parcel 3 – Suspended Oyster Culture Area - 500 feet x 435 feet = 4.88 acres

NE Corner: Latitude 58° 2.068' N Longitude 135° 39.473' W
SE Corner: Latitude 58° 1.996' N Longitude 135° 39.544' W
SW Corner: Latitude 58° 2.127' N Longitude 135° 40.024' W
SE Corner: Latitude 58° 2.200' N Longitude 135° 39.953' W

Lands are located in the Sitka Recording District.

GEOGRAPHIC: The proposed farm site is located on state-owned tide and submerged lands in Port Frederick south of the community of Hoonah, Alaska.

POLITICAL INFORMATION:

BOROUGH/MUNICIPALITY: The proposed aquatic farm sites are located in the Hoonah-Angoon Borough.

REGIONAL CORPORATION: Sealaska Corporation

FISH AND GAME ADVISORY COMMITTEES: Pelican Fish and Game Advisory Committee.

Scott Crass/Shannon Stone
PO Box 115526
Juneau, AK 99811
Phone: (907) 465-4110
Fax: (907) 465-6094

PLANNING AND CLASSIFICATION:

LAND MANAGEMENT PLAN: Northern Southeast Area Plan, Southern Region, Chichagof Island Area, Port Frederick, adopted October 15, 2002.

SURFACE CLASSIFICATION: The Northern Southeast Area Plan designates state owned tidelands in the Chichagof Island Area, Port Frederick surrounding proposed parcels 1 and 2 as General Use (Gu) and Parcel 3, located in North Bite as Habitat (Ha) and Harvest (Hv)

Area Plan Designation Definitions:

Gu - General Use. This designation can be assigned to both uplands and tidelands. When applied to tidelands this would include tidelands, shorelands and submerged lands not designated for specific habitat, harvest, economic, or recreation functions. This does not mean that the tideland or submerged land lacks value, but the appropriateness of whether and how a tideland parcel is to be used will be decided through formal state and federal permitting procedures.

Ha – Habitat. This designation applies to areas of varied size for fish and wildlife species during a sensitive life-history state where alteration of the habitat or human disturbance could result in a permanent loss of a population or sustained yield of a species. This designation applies to uplands, tidelands and submerged lands.

Hv – Harvest. Fish and wildlife harvest areas are subsistence, recreational and/or community harvest of varied size where alteration of habitat could permanently limit sustained yield to traditional users; or are areas of intense harvest where the level of harvest has reached, or is projected to reach, the harvestable surplus for the resource. This designation applies to uplands, tidelands and submerged lands.

SURFACE MINERAL ORDERS: The proposed site is closed to mineral entry.

SURVEY AND APPRAISAL:

SURVEY: A survey is not required by law before issuing a 10-year negotiated lease. However, the department has the right to require one in the future, at the applicant's expense, if boundary conflicts or disputes over acreage arise.

APPRAISAL: The Division of Mining, Land and Water has approved an administrative lease fee schedule for aquatic farm sites that meet the conditions listed within the schedule. The most current lease fee schedule will be used to establish the fair market rental each lessee must pay. The applicant has the option to have a site-specific appraisal done, at the applicant's expense, before the lease is issued, if he or she does not wish to use the fee schedule. If an applicant opts for a site-specific appraisal, the division-approved appraisal will establish the rental for the lease and the fee schedule will no longer be an option.

PUBLIC/AGENCY NOTICE AND COMMENTS: Public notice of the proposal has been sent to various newspapers, post offices, agencies, boroughs/cities, native corporations, , Fish and Game Advisory committees, etc. Public and agency comments are welcome during the comment period and will be considered in the final best interest finding. Only those who provide written comments during the comment period or who testify at a public hearing will be sent a copy of the final best interest finding and will be eligible to appeal. The final best interest finding will include an explanation of the appeal process. The public comment period begins on August 17, 2011 and will end at 5:00 p.m. on Thursday, September 15, 2011.

The preliminary best interest finding is subject to public comments received during the comment period. The final best interest finding will consider and address any comments related to the subject proposal and will be available on or about October 10, 2011. If significant changes occur to this decision as a result of public comments received, additional notice will be sent to those who provided comments, either in writing or by testifying at a public hearing.

Evaluation by the Alaska Department of Fish and Game

I. Physical and Biological Characteristics: Based on the information provided by the applicant on the site physical and biological characteristics, the proposed sites appear capable of supporting the farm activities proposed. Details follow below.

Protection from Oceanographic and Atmospheric Extremes: The physical exposure notes from Alaska ShoreZone imagery mapped data¹ shows the area as "protected" defined as a maximum effective fetch of < or = to 10 km. The proposed suspended culture gear has a sound configuration and anchoring system and are comparable to existing farm gear used in Southeastern Alaska that can withstand ocean and atmospheric conditions.

Sufficient Environmental Conditions: The proposed aquatic farm operation project is in an area that appears to have sufficient water exchange, water temperatures, currents, salinity, and primary production to support an aquatic farm and maintain healthy environment for other marine organisms.

Sufficient Water Depth: Based on information provided by the applicant, the suspended culture gear extends down 15 to 20 ft and water depth at all parcels is approx. 60 ft which is more than sufficient to prevent gear from grounding and impacting the benthos under floating structures.

¹ NOAA (National Oceanic and Atmospheric Administration), Fisheries, National Marine Fisheries Service. Alaska ShoreZone: Coastal Mapping and Imagery. <http://akr-mapping.fakr.noaa.gov/szflex/> (Accessed July 2011).

Elgrass and Kelp Beds Maintained: Based on the information provided by the applicant, there does not appear to be any eelgrass in the proposed project area. The exact locations and extent of kelp beds is not well documented in the area. If health and the abundance of kelp beds in the area are not properly maintained within the proposed aquatic farm site, project modifications to the aquatic farm operations permit will be made to correct the condition.

Anadromous Fish Streams: The proposed project site is not located within 300 feet of the mouth of an anadromous fish stream catalogued by ADF&G for various salmon species². The proposed farm gear structures will not significantly affect fish rearing habitats for salmonids and other marine fishes in the area and will allow adequate fish passage for salmonid adults (chum, coho, and pinks) that may be milling or migrating through the area.

II. Existing Uses not Significantly Altered: The proposed aquatic farm site will not significantly alter an established use defined in regulations as a commercial fishery, sport fishery, personal use fishery, or subsistence fishery except for Parcel 3. See details below.

Commercial Fisheries: The proposed aquatic farm is located in ADF&G Commercial Fisheries Division statistical area sub-district 114-31 and 114-33 (Figure 1). The proposed aquatic farm site project is not expected to cause significant alterations to the existing commercial fishery uses in the area for Parcel 1 and 2. However, Parcel 3 is expected to cause significant alterations to an established use (5 AAC 41.240). See below for details on each commercial fishery.

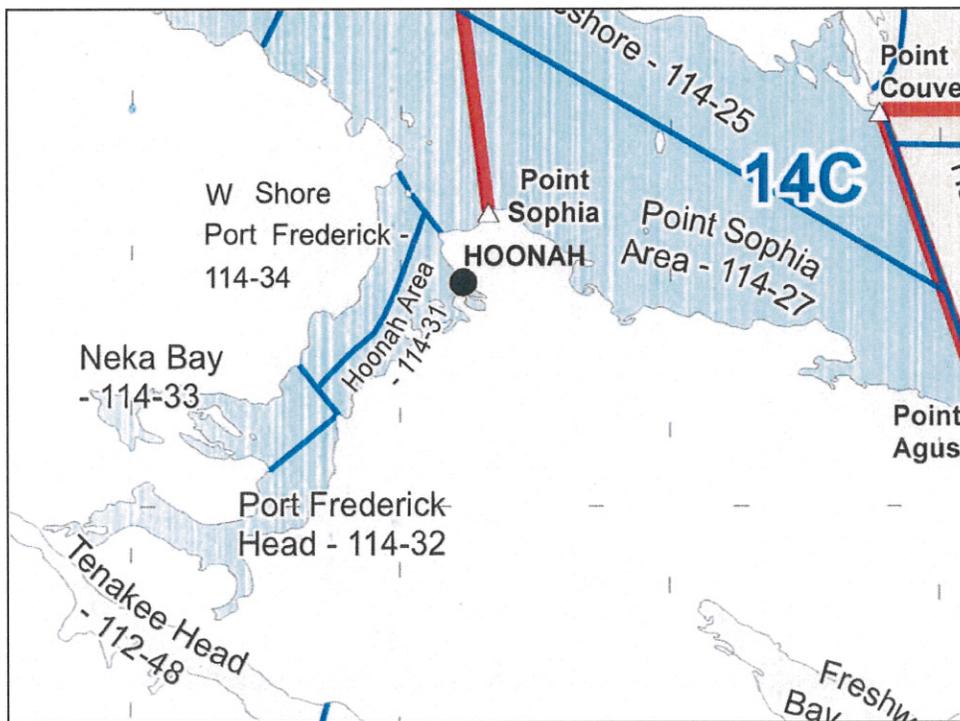


Figure 1. Port Fredrick Statistical Areas in Vicinity of Proposed Linhoff parcels.

Geoducks: No commercial geoduck dive fishery takes place at the site.

²Johnson, J. and K. Klein. 2009. Catalog of waters important for spawning, rearing, or migration of anadromous fishes – Southcentral Region, Effective June 1, 2009. Alaska Department of Fish and Game, Special Publication No. 09-03, Anchorage.

Sea cucumber: No commercial sea cucumber dive fishery takes place at the site.

Red Sea Urchins: No commercial red sea urchin dive fishery takes place at the site.

Salmon: Commercial salmon harvest took place in the statistical area 114-31 in 2010 using hand trolling (Chinook) and power trolling (Chinook, coho, and chum). Commercial salmon landings took place in the statistical area 114-33 in 2010 using hand trolling (Chinook, pink, and coho) and power trolling (Chinook and coho).

No salmon set netting, salmon trolling, seining, or gillnet salmon fishery occurs at the site.

Herring: No commercial herring fishery occurs in this area.

Dungeness crab: The proposed farm site lies within statistical areas 114-31 (Parcels 1 and 2) and 114-33 (Parcel 3). Harvest data from statistical area 114-31 and 114-33 show consistent commercial Dungeness harvest. Dungeness harvest (lbs), permits fished, and landings made from statistical areas 114-31 and 114-33 for the past ten seasons are shown in Tables 6 and 7.

SEASON	HARVEST	PERMITS FISHED	LANDINGS
2001/02	*	*	*
2002/03	*	*	*
2003/04	*	*	*
2004/05	30,486	4	18
2005/06	20,569	4	17
2006/07	*	*	*
2007/08	26,354	3	27
2008/09	33,750	8	32
2009/10	24,136	7	40
2010/11	22,533	5	39
TOTALS	198,088	12	249

* Confidential data, fewer than three permits fished.

SEASON	HARVEST	PERMITS FISHED	LANDINGS
2001/02	11,143	3	21
2002/03	19,333	3	32
2003/04	24,557	3	28
2004/05	38,951	6	32
2005/06	51,680	7	24
2006/07	*	*	*
2007/08	83,839	4	41
2008/09	91,477	8	42
2009/10	77,734	7	56
2010/11	102,140	6	52
TOTALS	**	17	349

* Confidential data, fewer than three permits fished.

** Confidential where harvests totals can be used to derive confidential data.

Aerial surveys of the Dungeness grounds in central and northern Southeast are conducted every June after the commercial fishery opens. An aerial survey of the area conducted in June of 2011 noted the presence of 5 pots between Burnt Point and Fred Point, and 160 pots were observed in North Bight. This is 33% of the total 460 pots observed in all of Port Frederick in 2011.

It is likely that this proposed farm site at Parcels 1 and 2 will have a negligible impact on commercial and personal use Dungeness fisheries, or on Dungeness habitat in the project area. The size of Parcels 1 and 2 is relatively small – each being 4.9 acres, the growing area is subtidal and suspended, and the bottom type is listed as steeply sloping in the application.

However, based on the most recent aerial Dungeness crab survey data, Parcel 3 is likely to have a significant impact on commercial, as well as subsistence and personal use Dungeness crab fisheries in North Bight. It is thought that users in commercial fishery will be displaced if a suspended aquatic farm goes in this area. Parcel 3 was added by the applicant after the application was submitted and totaled 5 acres. The applicant did not provide a narrative in the project description or a site plans for Parcel 3.

Parcel 3 is located in the statistical area (114-33) for Neka Bay which comprised 66% of Dungeness crab fishery harvest of the total harvest in all of Port Frederick in 2010/2011 (Table 8). Of the permits that fished in Port Frederick in the 2010/2011 season, all of them had some amount of gear or effort in statistical area, 114-33. Of the landings that occurred in Port Frederick in the 2010/2011 season, 93% of the landings contained crabs harvested from the statistical area, 114-33. Refer to Table 8 for cumulative data for Port Frederick statistical areas 114-31, 114.32, 114-33, 114-34.

Table 8: Dungeness harvest (lbs), permits, and landings from four Port Frederick statistical areas (114-31, 114-32, 114-33, 114-34).			
SEASON	HARVEST	PERMITS FISHED	LANDINGS
2010/11	155,404	6	56

ADF&G opposes the permitting of Parcel 3 as the proposed aquatic farm project at this parcel will significantly alter an established use (5 AAC 41.240) that is documented for Dungeness fishery effort in Neka Bay statistical area (114.33). It is recommended that Parcel 3 be moved to another location closer to Parcels 1 and 2, somewhere between Burnt Point and Game Point, as this area is less used by this fishery based on the most recent aerial survey data.

Sport Recreational Fishery: The area is not a significant site for Sport Anglers. It is likely that the project area is used by personal use Dungeness fishers. Since no permit system is in place for the personal use fisheries, the amount of effort and harvest in the area would be difficult to gauge. The Statewide Harvest Survey does tally Dungeness personal use harvest in Southeast but summarizes these data on a wider scale than district or statistical area.

Due to their design, oyster farms have not seemed to have significant negative impact on anglers and personal use fishers. The proposed aquatic farm site is not expected to cause any significant alterations to the existing sport recreational fishery use.

Subsistence Use: There is no customary and traditional use finding for Dungeness in this statistical area, so subsistence fishing for Dungeness isn't allowed in Hobart Bay. The proposed aquatic farm site is not expected to cause any significant alterations to the existing subsistence use.

Anchorage: This area is not known to have any critical vessel anchorages.

III. Compatible with Fish and Wildlife Resources: The proposed aquatic farm site is compatible with fish and wildlife resources in the area.

Predator and Pest Control Methods: Predator exclusion devices to be used at the proposed site are expected to be utilized in a manner that minimizes impacts on non-targeted fish and wildlife resources in the area.

Sensitive Wildlife: The proposed aquatic farm site is not expected to adversely impact seabird colonies, sea lion haulouts and rookeries, seal haulouts and pupping areas, and walrus haulouts.

Sea Bird Colonies: There are no sea bird colonies identified within 1 mile of the proposed sites.³

Eagle Nest: There are no eagle nests within 330 ft of the proposed project site parcels⁴

Sea Mammal Habitat: There are no sea mammal haul outs within 1 mile of the proposed sites⁵.

³ U.S. Fish and Wildlife Service, (current year). Beringian Seabird Colony Catalog -- computer database. U.S. Fish and Wildlife Service, Migratory Bird Management, Anchorage, Alaska 99503.

⁴ U.S. Fish and Wildlife Service, Migratory Bird Management. Alaska Bald Eagle Nest Atlas-computer database. 2008.

⁵ Analysis completed by NOAA Fisheries Service, Alaska Region, Protected Resources Division. Specifically, the data used to complete this analysis were provided by researchers from NOAA Fisheries Service, Alaska Fisheries Science Center, and National Marine Mammal Laboratory.

Endangered species: The proposed aquatic farm site will not adversely impact endangered and threatened species recovery and habitat efforts.

IV. Operation and Development Plan:

Increase Productivity: The operation and development plan for this project sufficiently describes how the operation will improve the productivity of the species intended for culture above what would occur in natural conditions using approved methods. Approved methods include predator exclusion, reduction of competing species, destiny manipulation, import of naturally-produced seed, import of hatchery produced seed, programming harvest to optimize growth and shellfish condition, and habitat improvements.

Maintenance: The operation and development plan for this project indicates that support facilities and culture gear and anchoring system will be installed with sufficient anchors and maintained.

Rotation Schedule: The projected rotation schedule is consistent with the life history of the species intended for culture.

V. Species to be Cultured and Site Suitability

The department has not conducted a site suitability study for this site. Based on information provided by the applicant, the proposed site is capable of supporting the activities proposed. The proposed parcels in this aquatic farm operation project are located in an area that is thought to be suitable for suspended oyster culture.

VI. Request for Additional Information:

The applicant needs to provide the following information:

- 1) an updated Operation and Development Plan, Part B with
 - a. data for the projected equipment and gear type numbers for all years, and
 - b. updated data in all columns to reflect projected operations, development, and production for all parcels (Parcel 1-3).
- 2) a site plan for Parcel 3
- 3) diagrams of the grow-out trays to be used with dimensions.

ENVIRONMENTAL RISK ASSESSMENT: The applicant has submitted a signed environmental risk questionnaire. The questionnaire asks for information on potentially hazardous materials, such as plans for onsite storage of fuel or chemicals. The applicant has indicated that no on-site use, storage, transport, disposal, or otherwise, of any petroleum products will be used during the course of the proposed activities.

BONDING AND INSURANCE:

BONDING: Bonding, or another form of security, is required under AS 38.05.083 and 11 AAC 63.080. The bond must cover the costs of site cleanup and restoration, any associated cleanup costs after termination of the lease, including any unpaid rentals or other obligations accruing until site restoration is complete. The regulations require the minimum security amount of \$2,500 (or \$1,250 with an association bond) for an aquatic farm lease. Factors such as location and amount of improvements at the site are taken into consideration when the bond amount is determined. Please refer to the Recommendation section at the end of this decision for the bond amount that was

determined appropriate for this proposal.

INSURANCE: At this time the DNR does not require this type of activity to have general liability insurance. General liability insurance may be required in the future depending on the aquatic farming operations and the procedures of the department at the time changes are made to the lease or a renewal lease is issued. The lessee is responsible for acquiring other types of insurance, such as Workman's Compensation Insurance that may be required under other local/state/federal laws.

POTENTIAL CONFLICTS/PENDING INTERESTS: There are no known pending interests at the location of the proposal.

TRADITIONAL USE FINDING: The proposed aquatic farm should cause no known disruption of traditional and/or existing uses of the area, such as commercial and sport fishing, subsistence activities, boat travel, and recreation. Through agency and public input, more traditional and existing use information may surface. If such information becomes available, any potential and/or existing conflicts will be addressed in the final best interest finding.

NORTHERN SOUTHEAST AREA PLAN INFORMATION SPECIFIC TO THIS PROPOSAL: This farm site lies within the Southern Region of the Northern Southeast Area Plan and more specifically within the Chichagof Island Area, Port Frederic. State tidelands and submerged lands are managed to protect waterfowl/shorebird and bear concentrations areas, Pacific herring overwintering areas, and anadromous streams.

UPLAND OWNER/MANAGEMENT: The uplands adjacent to the proposed aquatic farm sites 1 and 2 are Native Owned. The U.S. Forest Service (Tongass National Forest) is the upland owner of lands adjacent to the aquatic farm proposal in North Bite.

CONSIDERATIONS: The following criteria, set out in 11 AAC 63.050(b), has been considered and represents what is known at this time:

Land Management: There are no known land management policies or designations, other than those in the Northern Southeast Area Plan, and potentially the Tongass Land and Resource Management Plan that may impact this proposal. Measures taken to mitigate impacts on the resources identified in the above-mentioned plans are listed below.

Pending/Existing Uses:

1. The Northern Southeast Area Plan notes that Burnt Point, where Parcel 2 is proposed to be placed is designated as a small anchorage area. The surface area available for anchorage is approximately 30 acres. Aquatic farm parcel 2 is proposed to be 4.94 acres. This will leave approximately 25 acres available for anchorage.
2. There are no other known pending use conflicts or potential negative impacts to nearby communities or residential land due to the placement of this farm at the proposed location.
2. Information available suggests the aquatic farm will not disrupt traditional and existing uses of the site for use as a subsistence, anchorage, commercial and sport fishing, recreation, and tourism.
3. There are no historic and cultural resources known to exist in the area.
4. There are no commercial or industrial facilities known to exist in the area.

Public Access: Public access has been and will be protected in accordance with 11 AAC 63.050(b)(6) and 11 AAC 53 and will be addressed in any resultant lease agreement.

Public Trust Doctrine: Any resultant lease agreement is subject to the principles of the Public Trust Doctrine in order to protect the public's right to use navigable waters and the land beneath them for navigation, commerce, fishing, and other purposes.

Mitigation Measures: In addition to the mitigation measures identified above under Pending/Existing Uses, paragraph 2, any resultant lease may include additional stipulations necessary to mitigate conflicts identified during the public/agency comment period

Social, Economic, and Environmental Concerns: There are no known significant social, economic, and environmental effects that may come about from the proposed aquatic farm lease.

Surface Area: The proposal does not encumber more than a third of the surface area of a bay, bight, or cove in accordance with 11 AAC 63.050(c).

ADVANTAGES/DISADVANTAGE: The advantage of issuing this lease on state owned tide and submerged lands is the potential local employment opportunities as well as any secondary jobs created or increased from businesses involved in marketing, transport or sale of the farmed products and will help diversify the economy of the state by utilizing state tide and submerged lands for an aquatic farm.

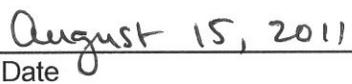
There seems to be no obvious disadvantages of allowing this activity on state owned tide and submerged lands. The public should be aware that access through the site, as well as access to any of the common property resources not being cultured at the site are public uses that remain intact. Therefore, and as mentioned above, any resultant lease would stipulate the requirement that signs be posted informing the public of their rights at the aquatic farm site.

RECOMMENDATION: Considering the information known at this time and described within this decision, it appears to be in the state's best interest to issue the lease for approximately 11.88 acres more or less to the applicant for intertidal culture. The ADFG will not issue a permit for Parcel 3, therefore the DNR will not be able to include Parcel 3 in the lease.

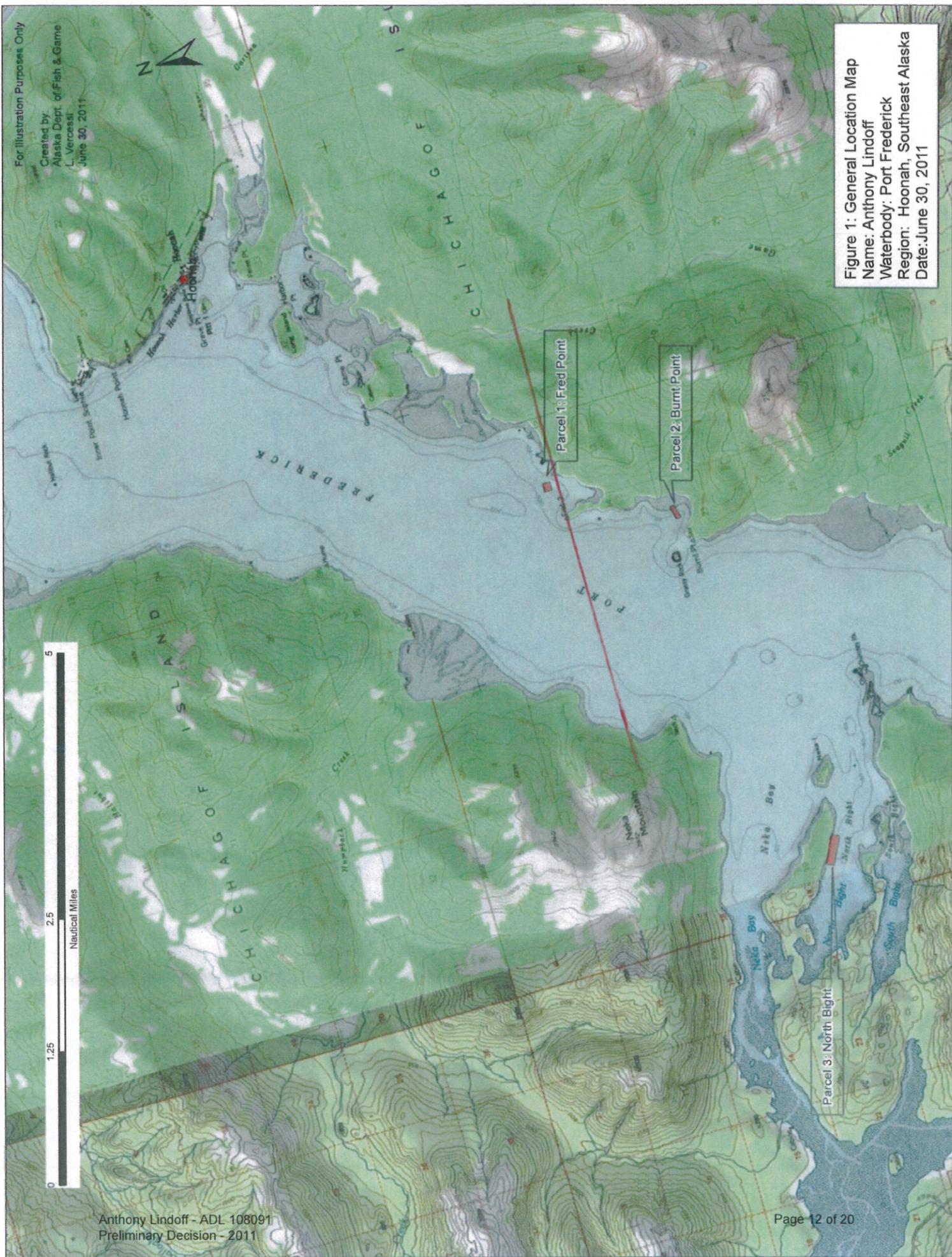
Any resultant lease will include stipulations that may be identified as a result of public comments. Approval of the application is recommended with a security bond set at \$2,500 or \$1250 with an association bond.



John S. Thiede, Aquatic Farm Program Manager



Date



For Illustration Purposes Only
 Created by
 Alaska Dept. of Fish & Game
 L. Vercaasli
 June 30, 2011

Figure 1: General Location Map
 Name: Anthony Lindoff
 Waterbody: Port Frederick
 Region: Hoonah, Southeast Alaska
 Date: June 30, 2011

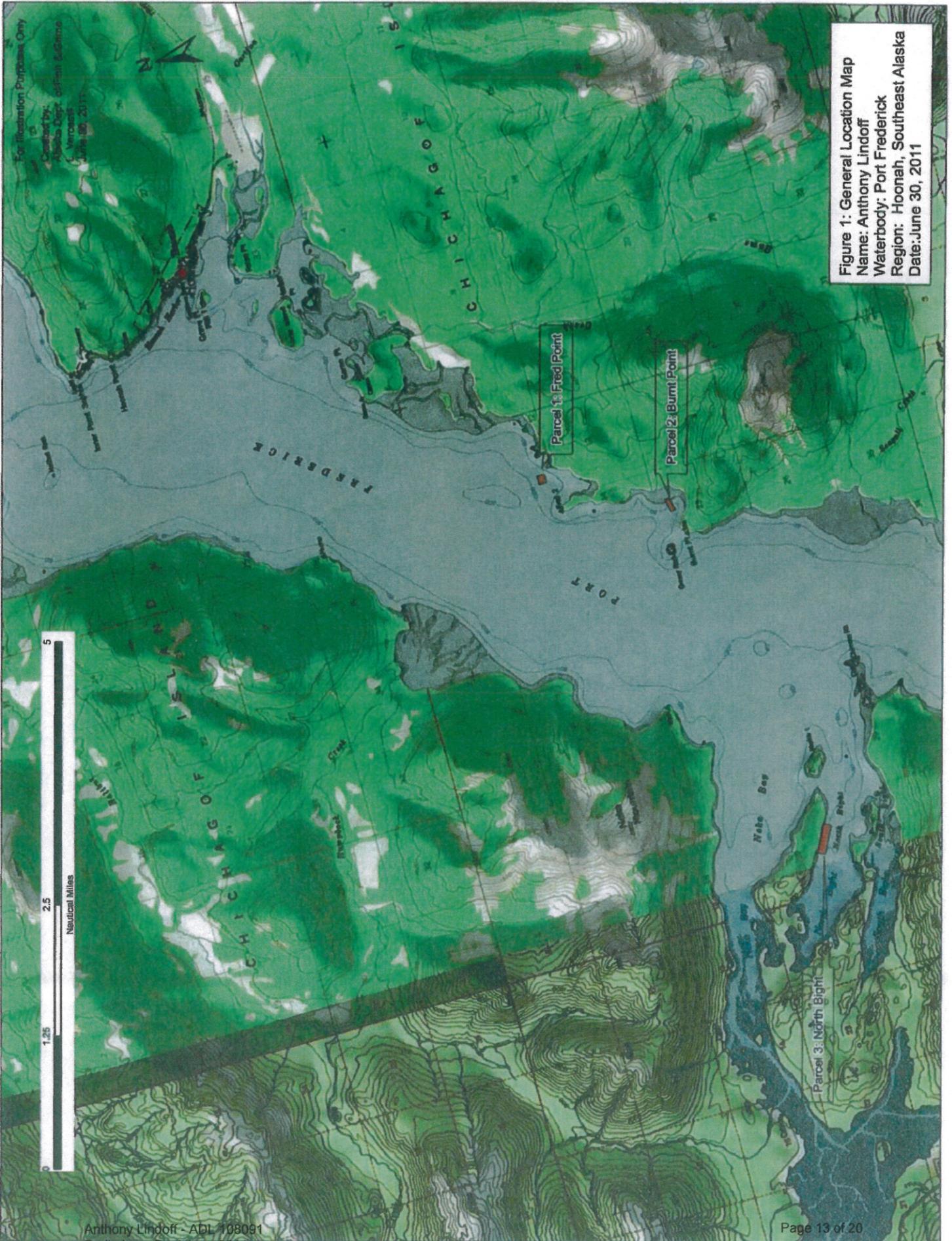
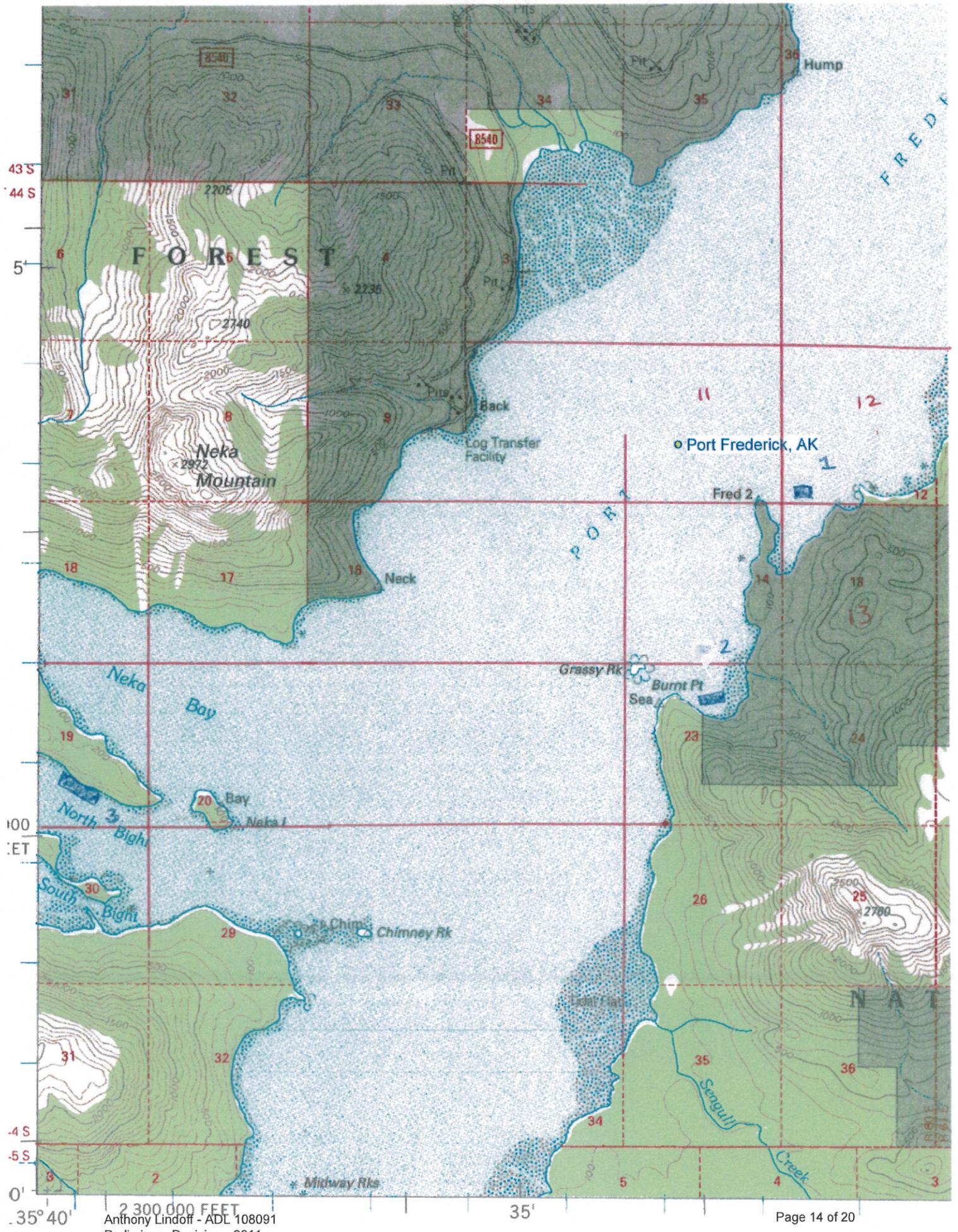


Figure 1: General Location Map
 Name: Anthony Lindoff
 Waterbody: Port Frederick
 Region: Hoonah, Southeast Alaska
 Date: June 30, 2011



PARCEL COORDINATES (NAD83)

Parcel 1: Suspended Grow-out

430 ft x 500 ft = 4.94 acres

NE Corner 1 – 58° 3.823' N and 135° 32.030' W

SE Corner 2 – 58° 3.753' N and 135° 32.025' W

SW Corner 3 – 58° 3.750' N and 135° 32.180' W

NW Corner 4 – 58° 3.821' N and 135° 32.185' W

Parcel 2: Suspended Grow-out Area

269 ft x 800 ft = 4.94 acres

NE Corner 1 – 58° 2.704' N and 135° 33.071' W

SE Corner 2 – 58° 2.661' N and 135° 33.053' W

SW Corner 3 – 58° 2.632' N and 135° 33.296' W

NW Corner 4 – 58° 2.675' N and 135° 33.314' W

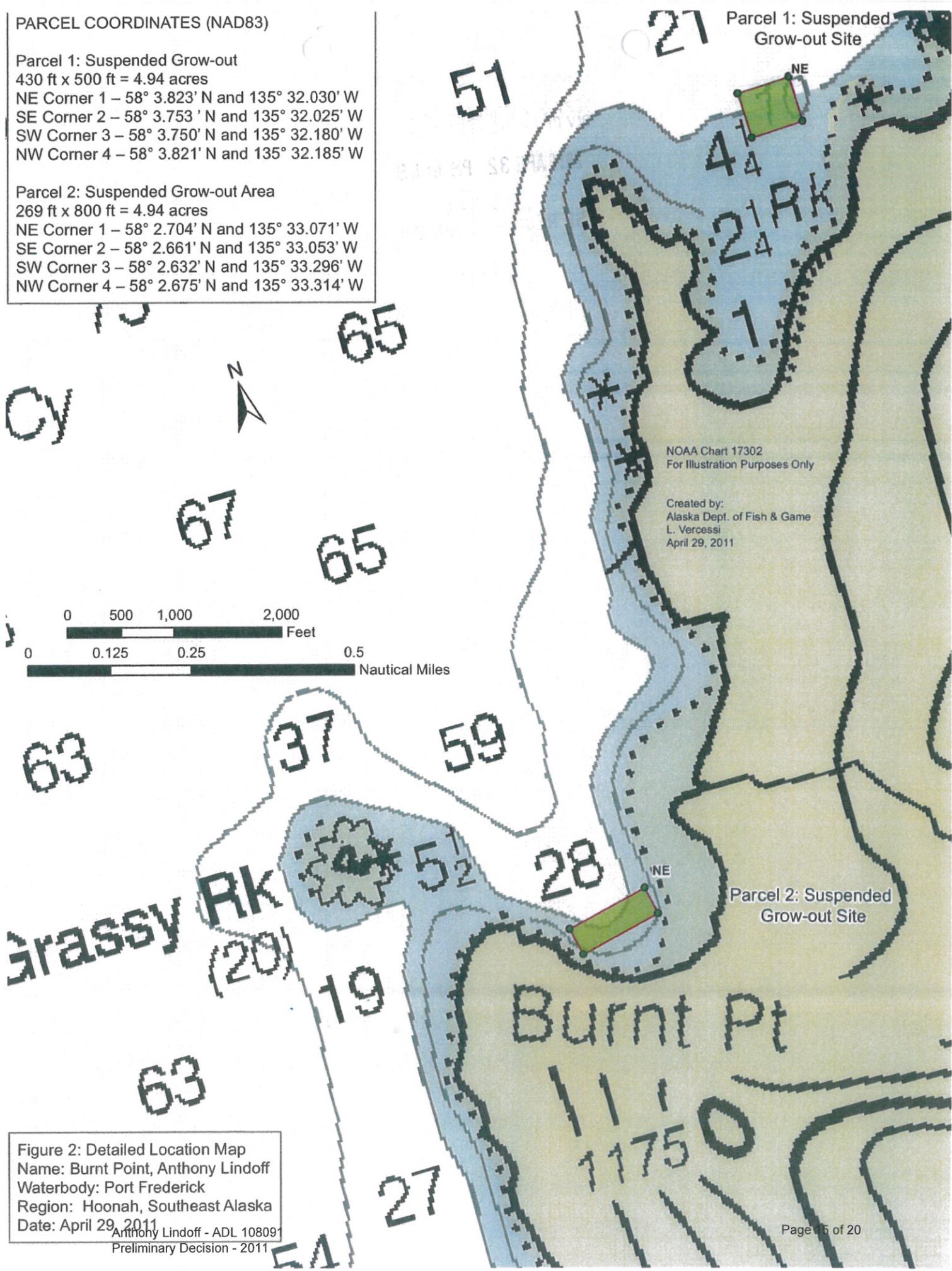


Figure 2: Detailed Location Map

Name: Burnt Point, Anthony Lindoff

Waterbody: Port Frederick

Region: Hoonah, Southeast Alaska

Date: April 29, 2011

Anthony Lindoff - ADL 10809
Preliminary Decision - 2011

Figure 3: Site Plan
 Name: Coko Properties
 Waterbody: Port Frederick
 Region: Hoonah, Southeast AK
 Today's Date: May 2, 2011

PARCEL COORDINATES (NAD83)	
Parcel 1: Suspended Grow-out	
430 ft x 500 ft = 4.94 acres	
NE Corner 1	- 58° 3.823' N and 135° 32.030' W
SE Corner 2	- 58° 3.753' N and 135° 32.025' W
SW Corner 3	- 58° 3.750' N and 135° 32.180' W
NW Corner 4	- 58° 3.821' N and 135° 32.185' W
Parcel 2: Suspended Grow-out Area	
269 ft x 800 ft = 4.94 acres	
NE Corner 1	- 58° 2.704' N and 135° 33.071' W
SE Corner 2	- 58° 2.661' N and 135° 33.053' W
SW Corner 3	- 58° 2.632' N and 135° 33.296' W
NW Corner 4	- 58° 2.675' N and 135° 33.314' W

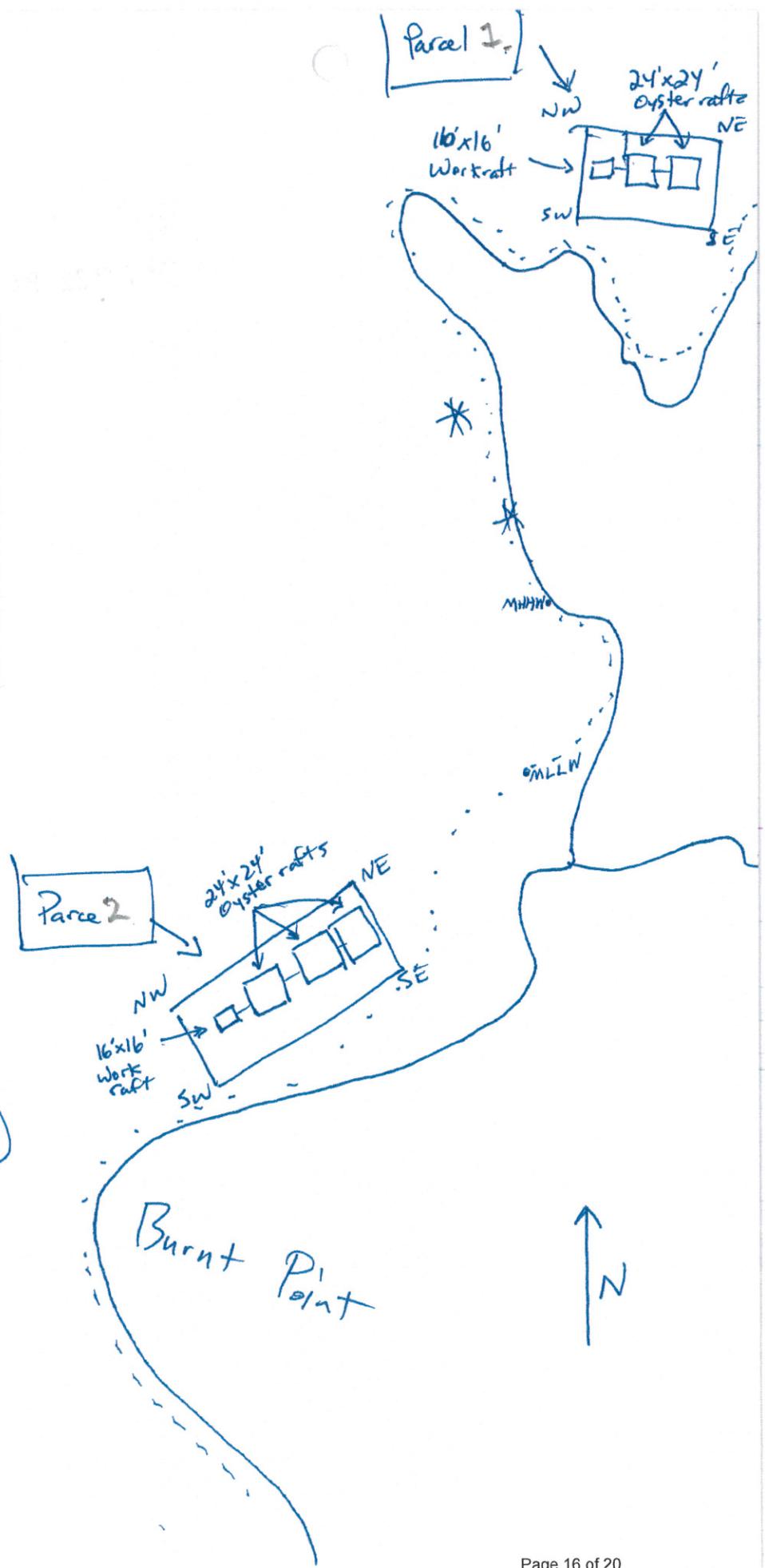
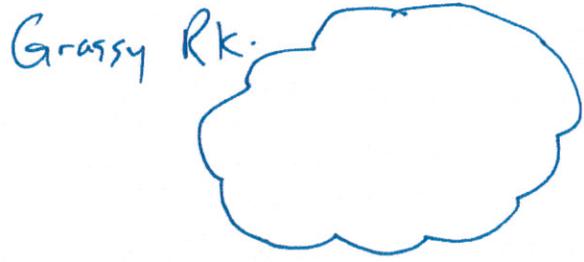
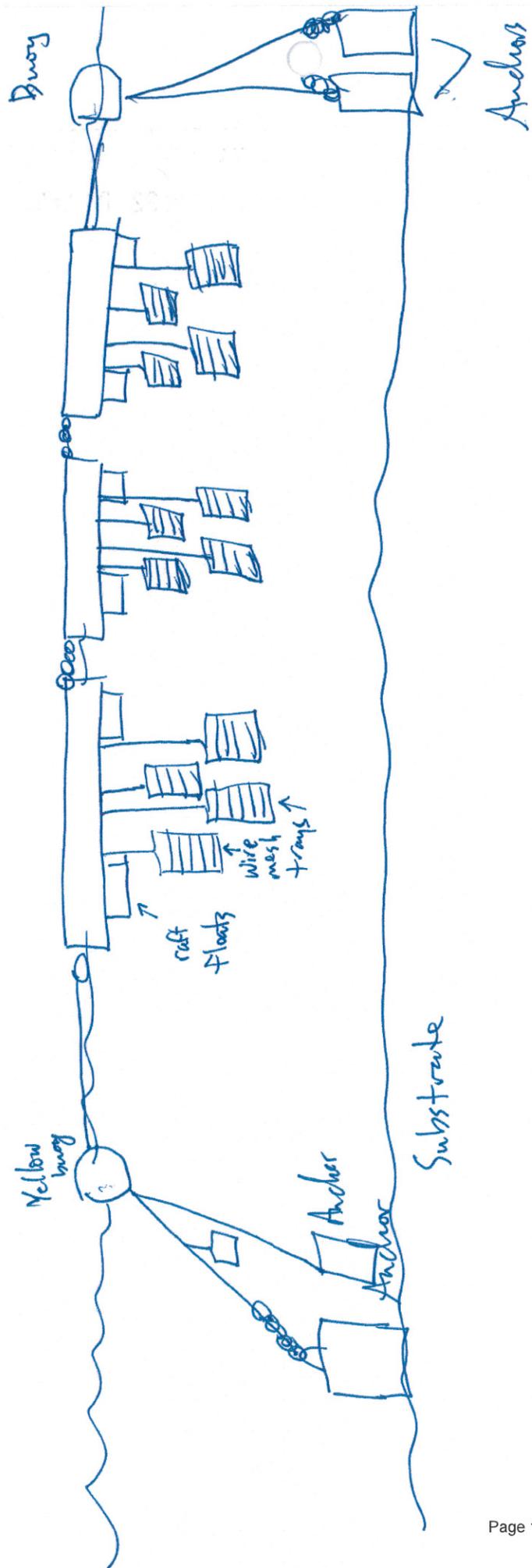


Figure 5. Aquatic Farm Cross-Sectional Diagram



PARCEL COORDINATES (NAD83)
Parcel 3: North Bight, suspended grow-out
500 ft x 1742 ft = 20.0 acres
NE Corner 1 - 58° 2.068' N and 135° 39.473' W
SE Corner 2 - 58° 1.996' N and 135° 39.544' W
SW Corner 3 - 58° 2.127' N and 135° 40.024' W
NW Corner 4 - 58° 2.200' N and 135° 39.953' W

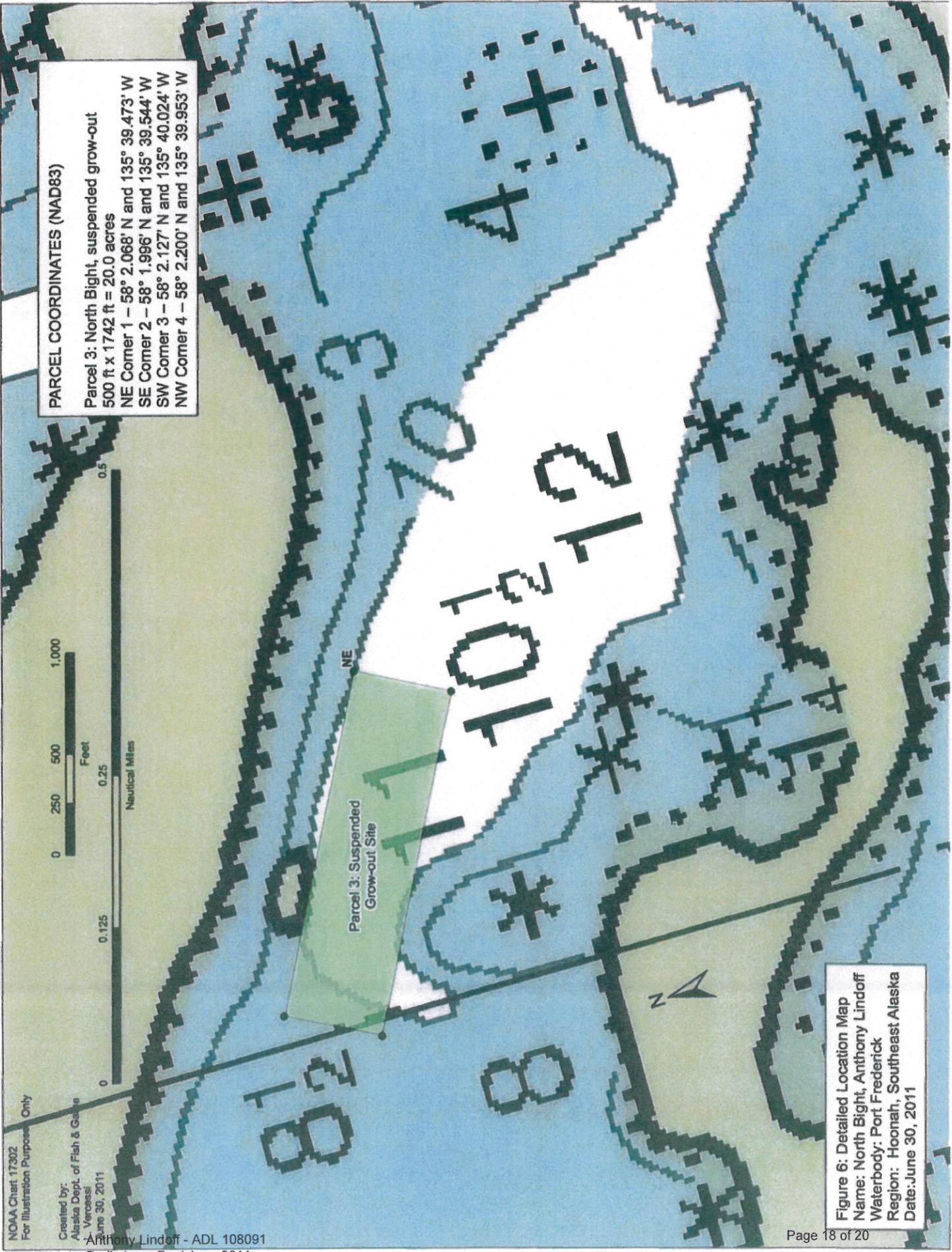
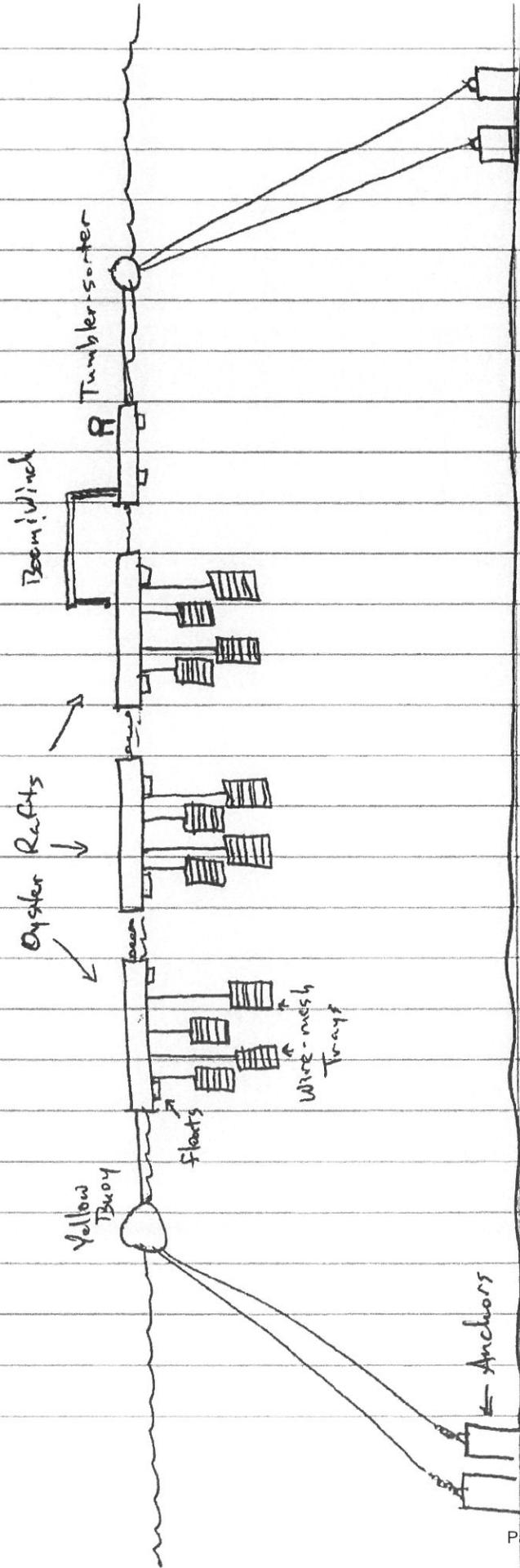


Figure 6: Detailed Location Map
Name: North Bight, Anthony Lindoff
Waterbody: Port Frederick
Region: Hoonah, Southeast Alaska
Date: June 30, 2011

Parcel 3 - North Bight
Cross Sectional Diagram



PARCEL COORDINATES (NAD83)

Parcel 3: North Bight, suspended grow-out
500 ft x 1742 ft = 20.0 acres
NE Corner 1 - 58° 2.068' N and 135° 39.473' W
SE Corner 2 - 58° 1.996' N and 135° 39.544' W
SW Corner 3 - 58° 2.127' N and 135° 40.024' W
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Parcel 3 - North Bight

