

**EXPERIMENTAL LEASE APPLICATION**

Application 1

**1. APPLICANT CONTACT INFORMATION**

Applicant	JDL Fisheries LLC
Contact Person	David Osier
Address	291 Medomak Road
City	Bremen
State, Zip	Maine, 04551
County	Lincoln
Telephone	(207) 380-6744
Email	dosier117@gmail.com
Payment Type	<input checked="" type="checkbox"/> Check (included) <input type="checkbox"/> Credit Card

*Note: The email address you list here will be the primary means by which we will contact you. Please provide an email address checked regularly. If you do not use email, please leave this blank.*

**2. PROPOSED LEASE SITE INFORMATION**

Location of Proposed Lease Site	
Town	Bremen
Waterbody	Muscongus Bay
General Description (e.g. south of B Island)	East of Hog Island Ledge
Lease Information	
Total acreage (4-acre maximum) and lease term (3-year maximum) requested	4 acres, 3 years
Type of culture (check all that apply)	<input type="checkbox"/> Bottom (no gear) <input checked="" type="checkbox"/> Suspended (gear in the water and/or on the bottom) <input type="checkbox"/> Net Pen (finfish)
How many pending experimental lease applications (including this one) do you have pending?	<input type="checkbox"/> One (1) <input checked="" type="checkbox"/> Two (2) <i>Note: An applicant may have no more than two pending experimental leases at any time.</i>
Do you have a legal interest in any entity that has a pending experimental application?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" provide the name of the applicant(s): _____
Is any portion of the proposed lease site above mean low water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>Note: If you selected "Yes", you need to complete the steps outlined in the section titled: "Landowner/Municipal Permission Requirements".</i>

### 3. GROWING AREA DESIGNATION

**Directions:** Information for growing area designations can be found here:

<https://www.maine.gov/dmr/shellfish-sanitation-management/closures/index.html>

Growing Area Designation (e.g. "WL"):	WS
Growing Area Section (e.g. "A1"):	A

**Note:** If you are proposing to grow molluscan shellfish in waters classified as anything other than open/approved, you will need to contact the Bureau of Public Health to discuss your plans at the following email: [DMRPublicHealthDiv@maine.gov](mailto:DMRPublicHealthDiv@maine.gov)

### 4. GENERAL LEASE INFORMATION

A. Please complete the table below and add additional rows as needed.

Name of species to be cultivated (include both common and scientific names):	Name and address of the source of seed stock or juveniles	Maximum number (or biomass) of organisms you anticipate on the site at any given time
<b>Kelps</b>		
1. Sugar Kelp ( <i>Saccharina latissima</i> )	Atlantic Sea Farms 20 Pomerleau St. Biddeford, ME 04093	75,000 lbs
2. Skinny Kelp ( <i>Saccharina angustissima</i> )	Atlantic Sea Farms 20 Pomerleau St. Biddeford, ME 04093	75,000 lbs
3. Winged Kelp ( <i>Alaria esculenta</i> )	Atlantic Sea Farms 20 Pomerleau St. Biddeford, ME 04093	10,000 lbs
4. Horsetail Kelp ( <i>Laminaria digitata</i> )	Atlantic Sea Farms 20 Pomerleau St. Biddeford, ME 04093	10,000 lbs
5. Shotgun Kelp ( <i>Agarum clathratum</i> )	Atlantic Sea Farms 20 Pomerleau St. Biddeford, ME 04093	10,000 lbs
<b>Red Seaweeds</b>		
6. Irish Moss ( <i>Chondrus crispus</i> )	Atlantic Sea Farms 20 Pomerleau St. Biddeford, ME 04093	5,000 lbs
7. Dulse ( <i>Palmaria palmata</i> )	Atlantic Sea Farms 20 Pomerleau St. Biddeford, ME 04093	5,000 lbs
<b>Green Seaweed</b>		
8. Sea Lettuce ( <i>Ulva lactuca</i> )	Atlantic Sea Farms 20 Pomerleau St. Biddeford, ME 04093	5,000 lbs

**B. Do you intend to possess, transport, or sell whole or roe-on scallops?**  Yes  No

If you answered “Yes” please contact the Bureau of Public Health to discuss your plans at the following email: [DMRPublicHealthDiv@maine.gov](mailto:DMRPublicHealthDiv@maine.gov)

**Note:** If you are proposing to grow molluscan shellfish, this application also serves as your written operational plan as required in the National Shellfish Sanitation Program (NSSP) Model Ordinance Chapter 2 and must be maintained in your files. If you wish to submit an operational plan separate from this application, please contact: [DMRPublicHealthDiv@maine.gov](mailto:DMRPublicHealthDiv@maine.gov).

## 5. VICINITY MAP

**Note:** If you attach the map, please label it: ‘Vicinity Map’.

**Directions:** Using a NOAA Chart or USGS topographic map, show the area within a minimum of one-half mile of the proposed lease site.

The map needs to display the following:

- The waters, shore lands, and lines of mean high and mean low water within the general area of the lease
- An arrow indicating true north
- A scalebar
- The approximate lease boundaries
- A 1,000 foot radius buffer around each corner

See **Figure 1. Vicinity Map** on page 17.

## 6. BOUNDARY DRAWING

**Note:** If you attach a drawing, please label it ‘Boundary Drawing’.

**Directions:** Depict the boundaries of the proposed lease site. Provide a drawing with all corners, directions, and distances labeled. Provide coordinates for each corner as follows:

- Coordinate Description  
Provide geographic coordinates for each corner of the lease site in latitude and longitude in decimal degrees (e.g., 43.123456 N, -69.123456 W). Identify the datum from the map, chart, or GPS unit used to develop these coordinates. The datum will be shown on the map or chart you are using. The Coordinate Description may be provided separately from the Boundary Drawing.

See **Figure 2. Boundary Drawing** on page 18.

## 7. RESEARCH PROGRAM AND OPERATIONS

**Directions:** If you are cultivating more than one species, you will need to provide the below information for each species. Please attach a separate page if needed.

A. Type of study (check one):  Scientific Research  Commercial Research

**Please note:**

a) Product grown on experimental leases for scientific research cannot be sold. Results of scientific research are not kept confidential.

b) Experimental leases for commercial research are not renewable. Results of commercial research are kept confidential.

B. What is the purpose of the study? If scientific, please include a detailed study design.

The purpose of this study is to trial the viability of a commercial-scale seaweed farm east of Hog Island Ledge.

C. Describe the general culture process for each species proposed.

The site will be active from no earlier than October 15<sup>th</sup> to May 31<sup>st</sup>. Kelp will be outplanted on lines no earlier than October 15<sup>th</sup>, but more commonly between late October and early December. Red and green seaweeds will be outplanted between December and March. Exact species and ratios will be determined by availability and demand. Lines with seeded seaweeds will be suspended approximately 7 feet underwater and will be spaced a minimum of 10 feet apart. Farm site will be monitored from seeding until harvest to ensure gear integrity and crop quality. Harvesting will occur between late April and May 31<sup>st</sup>. During harvest seeded lines will be removed from the water and crop will be harvested into bags or crates. The site will be out of operation from June 1<sup>st</sup> to October 14<sup>th</sup> each year. During this period only the state-required lease markers, moorings, and associated mooring lines and chains will be on site. Mooring lines and chains will be connected and sunk to the seafloor during the off season. All gear removed from the site during the off season will be stored on my private property.

D. What months will the proposed activities (i.e. seeding, tending, and harvesting) occur?

**Seeding:** Kelp will be outplanted on lines no earlier than October 15<sup>th</sup>, but more commonly between late October and early December. Red and green seaweeds will be outplanted between December and March.

**Tending:** Tending and maintenance will take place from the end of seeding to the start of harvest, approximately December to the end of May.

**Harvesting:** Harvesting will occur between late April and May 31<sup>st</sup>.

**E. How often will you be at the site during seeding and harvesting periods?**

**Seeding:** Kelp seeding will take 1-3 days. It will take an additional 1-2 days to seed the green and red seaweeds.

**Harvesting:** Harvesting will take 5-10 days.

**F. How frequently will you visit/tend the site for routine maintenance (i.e. flipping cages, etc.)?**

The site will be visited at least every other week to tend to equipment and monitor for growth and fouling. Additional time will be spent on site after any major storm, to mend any damage, and in the spring, to add weight or buoyancy to the longlines, as needed.

**G. Describe the harvesting techniques you will use. If you plan on using a drag, please provide the dimensions.**

Seeded lines will be hauled onto my boat using the deck mounted hauler. Crew will cut the seaweed from the line by hand and pack it into bags or crates. At the time of harvest grow lines, crosslines, and depth control lines will be removed from the water.

**H. Describe any overwintering or "off season" plans for the site. For example, will you remove gear from the site and/or deploy gear in different areas within the proposed site? Please include where gear or product will be located if moved from the site.**

The site will be out of operation from June 1st to October 14th each year. During this period only the state-required lease markers, moorings, and associated mooring lines and chains will be on site. Mooring lines and chains will be connected and sunk to the seafloor during the off season. All gear removed from the site during the off season will be stored on my private property.

**I. What type of machinery (e.g. generator, drag, grading equipment, etc.) will you be using on the site? When and how often will the machinery be used?**

A deck mounted hauler will be used during seeding for a couple of hours for 1-3 days to tension lines and daily during harvest (5-10 days total) to haul seeded lines out of the water. Noise will be very minimal and no greater than noise associated with commercial fishing in the area.

**J. Please provide details on any predator control techniques you plan to employ.**

No predator control techniques will be employed at this site.

**K. Suspended culture gear can attract birds that roost on the gear and defecate, potentially creating a pollution source impacting shellfish held within the gear. In order to comply with the National Shellfish Sanitation Program (NSSP) Model Ordinance (MO), DMR is requiring that applications for the suspended culture of shellfish include a description of mitigation or deterrent measures to minimize the potential pollution impacts of birds at the proposed site. If appropriate, include sketches or photos that clearly depict those measures put into practice.**

Examples may include:

- Submerging suspended gear and associated product at a depth sufficient to deter roosting for two weeks before harvest
- Attaching physical deterrents (i.e. zip ties) to gear
- The site is proposed for the culture of seed only
- The site is proposed for the culture of adductor-only scallops (i.e. no other shellfish species would be grown on the site)
- Proposed gear would always be suspended below the surface of the water at a depth sufficient to deter roosting (i.e. as is common for scallop lantern nets)

Not applicable - shellfish not being grown on proposed site.

**8. EXISTING USES**

**Directions:** Describe the existing uses of the proposed area. Please include the amount of activity, the time of year the activity occurs, frequency, and proximity to the lease site.

A. Describe the existing uses of the proposed area in questions A.1 through A.5 below. Please include the a) type b) time of year c) frequency, and d) proximity to the lease site for each existing use.

**1. Commercial Fishing**

Lobstering is common throughout Muscongus Bay. From June–October lobstering is prevalent around the proposed site, however due to the mud bottom minimal traps are set within the boundary of the proposed lease site. For the remainder of the year lobstering is rare in the nearby vicinity.

Pogie fishing is common near the site with up to 4-5 boats targeting the fish during the summer months.

**2. Recreational Fishing**

Recreational fish for striped bass is infrequent but has been observed during the summer.

**3. Boating Activities (please also include the distance to any navigable channel(s) from your proposed site at low water)**

Boating activity of all types (fishing vessels, sailboats, kayaks, etc.) is very common during the summer month, but usually these vessels frequent deeper water east of the proposed site. During the winter boating activity is infrequent and limited to local fishermen. The proposed site sits outside of any marked channels and is navigable on all sides for most vessels.

**4. Ingress and egress (i.e. coming and going) of shorefront property owners within 1,000 feet of the proposal (e.g. docks, moorings, landing boats on shore, etc.)**

Hog Island is solely owned by the National Audubon Society. There are no docks, moorings, or landing boats within 1,000' of the proposed lease site. I have spoken with the Facilities and Operations Manager at the Seabird Institute about my proposed operations and no impacts to ingress or egress impacts are anticipated.

**5. Other uses (kayaking, swimming, etc.)**

Although infrequent it is possible that kayaking may occur on and near the proposed site during the summer months.

**B. Are there private docks, moorings, or other access points within 1,000 feet of the proposed lease? If yes, please include approximate distance from proposed lease.**

No.

**C. Are there public beaches, parks, or docking facilities within 1,000 feet of the proposed lease site. If yes, please describe and include approximate distances from proposed lease.**

No.

**D. Are there any Limited Purpose Aquaculture (LPA) licenses or aquaculture leases within 1,000 feet of your proposed lease site? If yes, please list their acronyms below. Current and pending aquaculture leases and active LPA licenses may be found here: <https://www.maine.gov/dmr/aquaculture/leases/index.html>**

No.

**9. CURRENT OPERATIONS**

**Directions:** If a question does not pertain to your proposed operations, please write “not applicable” or “N/A.”

**A. Describe your existing aquaculture operations, including the acronyms of all active leases and/or licenses.**

I do not currently have any existing aquaculture operations. However, I am applying for a second experimental lease in Bristol east of Louds Island.

B. What are your plans for any existing leases and/or Limited Purposed Aquaculture (LPA) licenses if the lease is granted? Will any existing leases and/or Limited Purpose Aquaculture (LPA) licenses be relinquished if the lease is granted? If so, please indicate which ones.

Not applicable.

## 10. ENVIRONMENTAL CHARACTERIZATION

**Directions:** Using your knowledge of the area, describe the environment of the proposed lease site. Be sure to include units of measurement in your answers (i.e. feet, cm/s).

A. What are the approximate depths at mean low water?

The depth at mean low water is 29-41'.

B. What are the approximate depths at mean high water?

The depth at mean high water is 39-51'.

C. Provide the approximate current speed and direction during the ebb and flow.

The current runs north to south at a maximum of 2-3 knots.

D. The following questions (D.1 through D.6) may be answered in writing or by submitting a video. If you plan to submit a video, please contact the Department prior to video collection.

1. What are the bottom characteristics (mud, sand, gravel, rock, ledge or some mix, etc.)?

The bottom of the proposed site is mud.

2. Describe the bottom topography (flat, steep rough, etc.).

The bottom of the proposed site slopes downward from the northern to southern boundary.

3. Describe marine organisms by species or common names. Based on your personal observations or other sources of information, are these species abundant, common, or rare?

Crabs and lobsters can be found on and near the site, but are not common due to the mud bottom.

4. Are there shellfish beds or fish migration routes in the surrounding area? If so, please describe.

None to my knowledge.



5. Describe the presence and extent of submerged aquatic vegetation, i.e. eelgrass, within the proposed lease area. Please include the date of this observation along with the method of observation. If submerged aquatic vegetation is observed, please also describe the abundance below and sketch the limits of the beds in the vicinity map.

I have lived and fished in the area for most of my life and have not observed any eelgrass within the boundary of the proposed lease. Additionally, eelgrass beds are generally observed in shallow waters in which light can penetrate to support photosynthesis. The proposed site is at an approximate depth of 29-41 feet at mean low water which is not an ideal depth for eelgrass in Muscongus Bay.

Based on a coast-wide eelgrass survey completed by the Department of Marine Resources in 2010, there are four eelgrass beds (three behind Hog Island Ledge and one near the shore of Hog Island) approximately 445', 550', 585', and 785' west of the proposed site (See *Figure 3. Eelgrass Map* on page 19). I do not anticipate any negative impacts on these beds as a result of my operation.

6. Describe the general shoreline and upland characteristics (rocky shoreline, forested, residential, etc.)

Hog Island Ledge is a rocky outcropping located approximately 330' west of the proposed site at mean low water. Hog Island is characterized by a rocky shoreline and forested uplands. The shore of Hog Island nearest the proposed site (approximately 740' west at mean low water) is uninhabited.

E. Is your proposed lease located within a Maine Department of Inland Fisheries and Wildlife designated Essential Habitat?

Yes  No

**Note:** The location of Essential Habitats in the State of Maine, along with information on how projects within these areas are reviewed, can be found here:

<https://www.maine.gov/ifw/fish-wildlife/wildlife/endangered-threatened-species/essential-wildlife-habitat/index.html>

**If a project is located within an Essential Habitat**, applicants are strongly encouraged to contact the MDIFW Environmental Review Coordinator ([John.Perry@maine.gov](mailto:John.Perry@maine.gov), phone: 207-287-5254) prior to application submission.

F. Will your operations discharge anything into the water such as feed (pellets, kelp, etc.) or chemical additives (therapeutants, chemical treatments, etc.)?

Yes  No

**Note:** If you answered yes, you must submit a video of the bottom using a method prescribed by the Department. **The video must be filmed between April 1 and November 15.** If a discharge is proposed you will also need to obtain a Maine Department of Environmental Protection (DEP) discharge permit. For information on this permit please contact DEP's Wastewater Licensing Program ([Gregg.wood@maine.gov](mailto:Gregg.wood@maine.gov), 207-287-7693). Further sampling may be required by DMR, or DEP, depending on the characteristics of the site or the proposed activities.

**G. Describe ice formation in the winter months at the proposed site.**

I have lived and commercially fished in the area for most of my life. I have not observed the proposed location ice over.

*Note:* Description of ice should incorporate data such as water temperature or ice out date over a ten-year period or observations over several (no less than 5) recent winters from the harbormaster, a municipal official such as a shellfish warden, local harbor committee, Marine Patrol Officer, fishing/aquaculture industry members, or the applicant.

Stating “no ice observed last year” will not be accepted as a complete answer.

**11. STRUCTURES (if applicable)**

If your operations require the use of cages, nets, ropes, trays, or any object (structure) other than the organism to be grown directly on the bottom or buoys to mark the corners of the lease site, you must submit an **Overhead View** and **Cross-Section View** of your gear plans. It is important to note that, unlike Limited Purpose Aquaculture (LPA) Licenses, experimental and standard leases require that all gear, including moorings, must be located within the proposed lease boundaries.

*Note:* You may embed the gear plans or attach them to the end of your application. If you attach the plans, please label them according to the instructions provided below.

**A) Overhead View (please label this “Overhead View”):**

*Directions:* All dimensions need to be labeled with the appropriate units (i.e. 10ft, 10in)

- Show maximum layout of gear including moorings.
- Show dimensions of entire gear layout
- Show approximate spacing between gear.
- Show lease boundaries and the location of proposed markers on all drawings.
- Gear orientation

See **Figure 4a. Overhead View when Site is in Operation (October 15<sup>th</sup> - May 31<sup>st</sup>)** on page 20 & **Figure 4b. Overhead View during Off Season (June 1<sup>st</sup> - October 14<sup>th</sup>)** on page 21.

**B) Cross-Section View (please label this “Cross-Section View”):**

*Directions:* The cross-section view must show the following:

- The sea bottom
- Profile of gear in cross-section as it will be deployed
- Label gear with dimensions and materials
- Show mooring gear with mooring type, scope, hardware, and line type and size
- Water depth at mean high and mean low water

*Note:* Please include an additional Cross-Section View, depicting the elements listed above, if there will be seasonal changes to gear layout (i.e. over wintering).

See **Figure 5a. Cross-Section View when Site is in Operation (October 15<sup>th</sup> - May 31<sup>st</sup>)** on page 22 & **Figure 5b. Cross-Section View during Off Season (June 1<sup>st</sup> - October 14<sup>th</sup>)** on page 23.

### C) Gear Description

**Directions:** List and describe each individual gear type that you will use in the table below.

<b>Specific Gear Type</b> <i>(e.g. soft mesh bag)</i>	<b>Dimensions</b> <i>(e.g. 16"x20"x2")</i>	<b>Time of year gear will be deployed</b> <i>(e.g. Spring, Winter, etc.)</i>	<b>Maximum amount of this gear type that will be deployed on the site</b> <i>(i.e. 200 cages, 100 lantern nets, etc.)</i>	<b>Species that will be grown using this gear type</b>
Longlines - polyline	length: 1,000' width: $1\frac{1}{32}$ - $\frac{3}{8}$ "	October 15 <sup>th</sup> - May 31 <sup>st</sup>	15 lines	Marine Algae
Crosslines - polyline	length: ~150' width: $1\frac{1}{32}$ - $\frac{3}{8}$ "	October 15 <sup>th</sup> - May 31 <sup>st</sup>	3 lines	Marine Algae
Mooring Buoys/State-required Lease Markers - A3 or A4 polyball	A3 Polyball - length: 17" width: 23"  A4 Polyball - length: 20.5" width: 27"	October 15 <sup>th</sup> - May 31 <sup>st</sup> (except for 6 state-required lease markers which will remain on site all year)	36 buoys	Marine Algae
Depth Control Device - foam lobster buoy connected to a counterweight by polyline encased by PVC	Foam lobster buoy - length: 14" width: 7"  PVC Pipe - length: 7' width: $\frac{1}{2}$ "  Polyline - length: ~9' width: $1\frac{1}{32}$ - $\frac{3}{8}$ "  Counterweight - weight: ~8-10 lbs	October 15 <sup>th</sup> - May 31 <sup>st</sup>	9 buoys per longline (135 buoys total)	Marine Algae
Mooring Line - nylon rope	length: 45-55' width: $\frac{3}{4}$ -1"	All year, but sunk to the seafloor from June 1 <sup>st</sup> - October 14 <sup>th</sup>	36 lines	Marine Algae
Mooring Chain - galvanized chain	length: 5' width: $\frac{1}{2}$ "	All year, but sunk to the seafloor from June 1 <sup>st</sup> - October 14 <sup>th</sup>	36 chains	Marine Algae

**D) Gear Drawing** (please label this “Gear Drawing”).

**Directions:** Include a drawing of an individual piece of gear for each of the gear type(s) you plan to use. The drawing(s) needs to depict the length, width, and height of each gear type with appropriate units referenced (i.e., 10in, 10ft, etc.).

See *Figure 6. Gear Drawing* on page 24.

**12. MARKING**

Will you be able to mark your site in accordance with DMR regulations, Chapter 2.80? In part, this requires marker buoys which clearly display the lease ID and the words SEA FARM to be located at each corner of the lease. Marker buoys must be yellow and host reflective material.

Yes     No

If you answered no, explain why and suggest alternate markings.

**Note:** If a lease is granted, you will also be required to mark the site in accordance with appropriate US Coast Guard Regulations. If you have questions about US Coast Guard regulations contact: 1<sup>st</sup> Coast Guard District, Aids to Navigation Office.

### 13. RIPARIAN LANDOWNERS AND SITE ACCESS

A. If your lease is within 1,000ft of shorefront land (**which extends to mean low water or 1,650 ft. from shore, whichever is less, according to NOAA charts**), the following supporting documents are required:

1. A labeled copy of a tax map(s) depicting the location of the proposed lease site and including the following elements:
  - Label the map “Tax Map: Town of (name of town).”
  - Legible scale
  - Tax lot numbers clearly displayed
  - The boundaries of the proposed lease

See *Figure 7. Tax Map: Town of Bremen* on page 25.

2. Please use the Riparian Landowner List (included on the next page) to list the name and address of every shorefront landowner within 1,000ft of the proposed lease site. Have the tax collector or clerk of the municipality certify the list. Refer to the riparian determination guidance document to ensure all riparian landowners are included:  
<https://www.maine.gov/dmr/aquaculture/forms/documents/RiparianDetermination.pdf>
3. If any portion of the site is intertidal you need to complete the steps outlined in “Landowner/Municipal Permission Requirements”.

B. Will your access to the lease area be across riparian land?

Yes     No

**Note:** If you selected “Yes”, you will need to complete the landowner permission requirements included in “Landowner/Municipal Permission Requirements” of this application.

C. How (i.e. where on shore) will you access the proposed site?

I will access the proposed site in a fishing boat or skiff kept in Bremen.

**RIPARIAN LANDOWNER LIST**

***THIS LIST MUST BE CERTIFIED BY THE TOWN CLERK***

On this list, please include the map number, lot number, and the current owners' names and mailing addresses for all shorefront parcels within 1,000 feet of the lease site. It is the applicant's responsibility to assemble the information for the Town Clerk to certify. The Town Clerk only certifies that the information is correct according to the Town's records. Once you have completed the form, ask the Town Clerk to complete the certification section below. If riparian parcels are located within more than one municipality, provide a separate, tax map and certified riparian list for each municipality.


TOWN OF: Bremen

MAP #	LOT #	Landowner name(s) and address(es)
001	13	The National Audubon Society 225 Varick Street, 7 <sup>th</sup> Floor New York, NY 1-0014

**Please use additional sheets if necessary and attach hereto.**

**CERTIFICATION**

I, Melanie Pendleton, Town Clerk for the Town of Bremen certify that the names and addresses of the property owners listed above, as well as the map and lot numbers, are those listed in the records of this municipality and are current as of this date.

SIGNED:  DATE: 1/10/2024

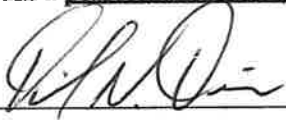
**14. ESCROW ACCOUNT OR PERFORMANCE BOND**

Check the category that describes your operation:

Check Here	Lease Category	Amount of Required Escrow or Performance Bond
<input type="checkbox"/>	No gear/structure, no discharge	None
<input type="checkbox"/>	No gear/structure, discharge	\$500.00
<input type="checkbox"/>	≤ 400 square feet of gear/structure, no discharge	\$1,500.00
<input checked="" type="checkbox"/>	>400 square feet of gear/structure, no discharge	\$5,000.00*
<input type="checkbox"/>	Gear/Structure, discharge	\$25,000.00

\*DMR may increase the bond/escrow requirements for leases with more than 2,000 feet of structure.

I, (printed name of applicant) David N. Osier have read DMR Aquaculture Regulations 2.64(12)(B)) and if this proposed lease is granted by DMR I will either open an escrow account or obtain a performance bond, depending on the category of lease.

President   
**Applicant Signature**

1/18/24  
**Date**

*Note: Add title if signing on behalf of a corporate applicant.*

**ADDITIONAL APPLICANTS:** Each applicant must sign this section indicating that they will open an escrow account or obtain a performance bond. Use the space below for additional persons listed on the application. You may attach additional pages, if necessary.

I, (printed name of applicant) David N. Osier have read DMR Aquaculture Regulations 2.64(10)(D) and if this proposed lease is granted by DMR I will either open an escrow account or obtain a performance bond, depending on the category of lease.

President   
**Applicant Signature**

1/18/24  
**Date**

*Note: Add title if signing on behalf of a corporate applicant.*

**15. APPLICANT SIGNATURE PAGE**

I hereby state that the information included in this application is true and correct. I have also read and understand the requirements of the Department's rules governing aquaculture and the application instructions pertaining to the experimental lease process.

Printed name: David N. Osier

Title (if corporate applicant): President

Signature:  Date: 1/18/24

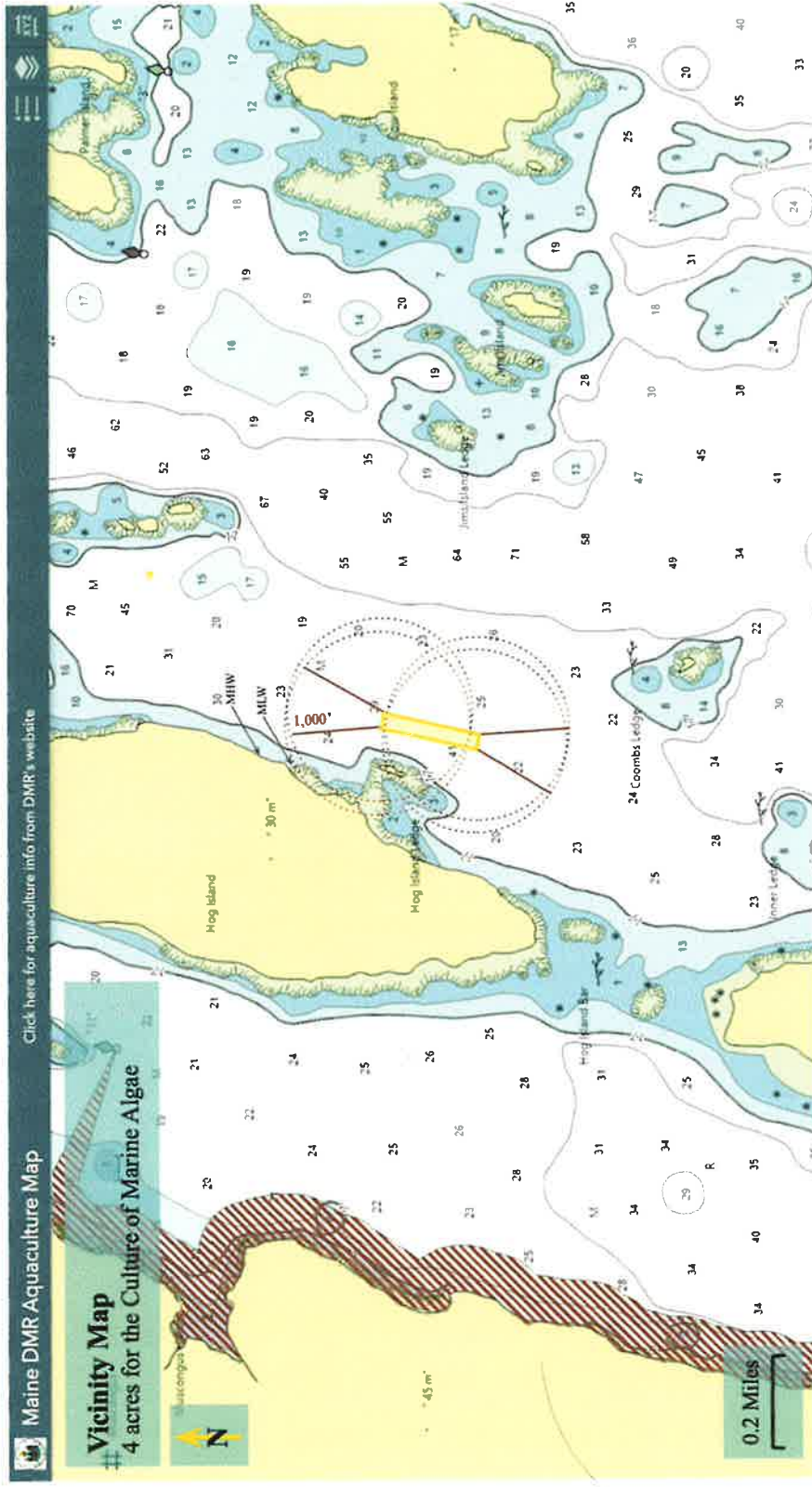
18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

**Note:**

- All applicants must sign and date this page. Please use the space below, if additional signatures are required.
- Corporate applicants, please be sure to include the title (i.e. President, Treasurer, etc.) of the individual(s) signing on the company's behalf.



Figure 1. Vicinity Map



**Figure 2. Boundary Drawing**

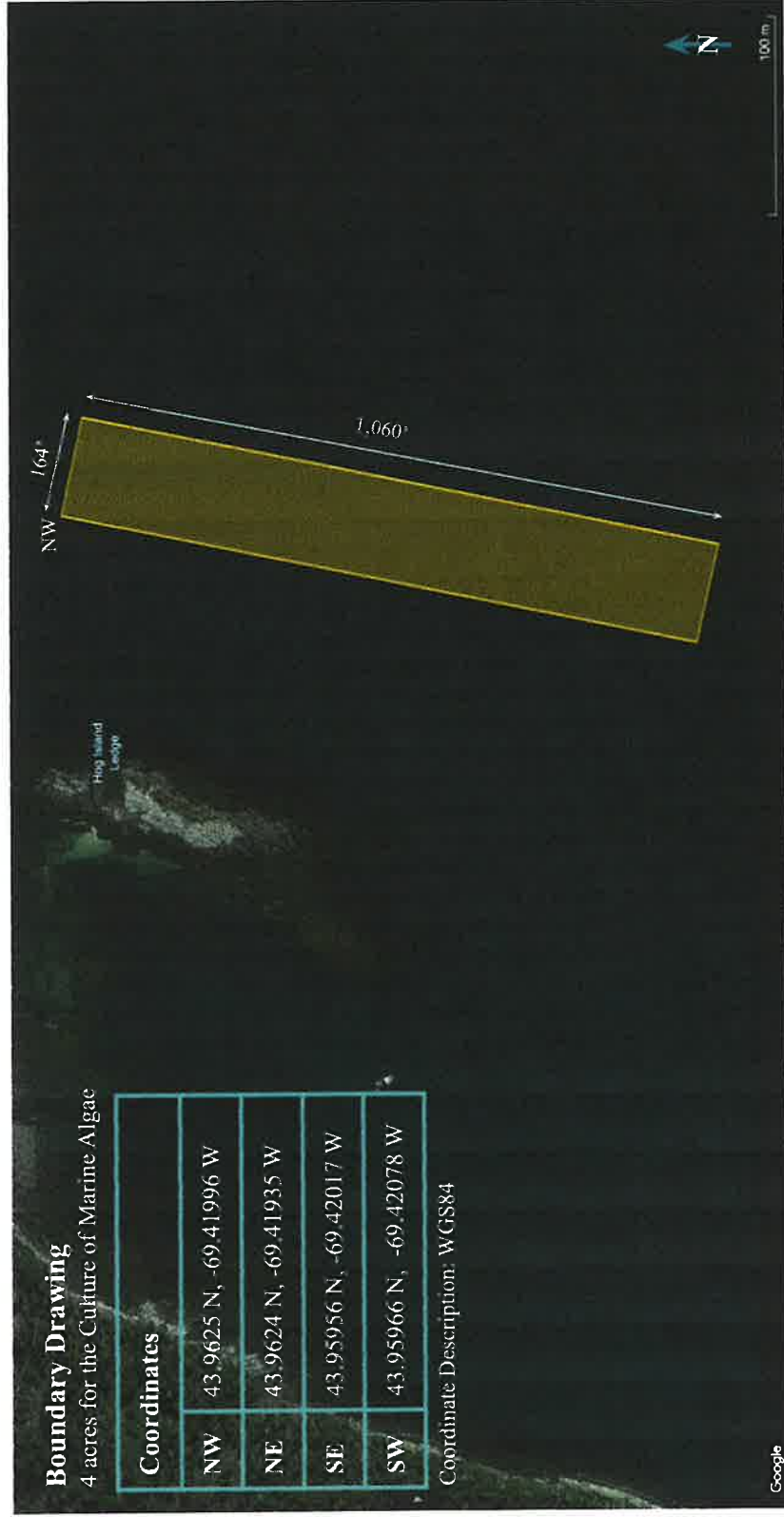
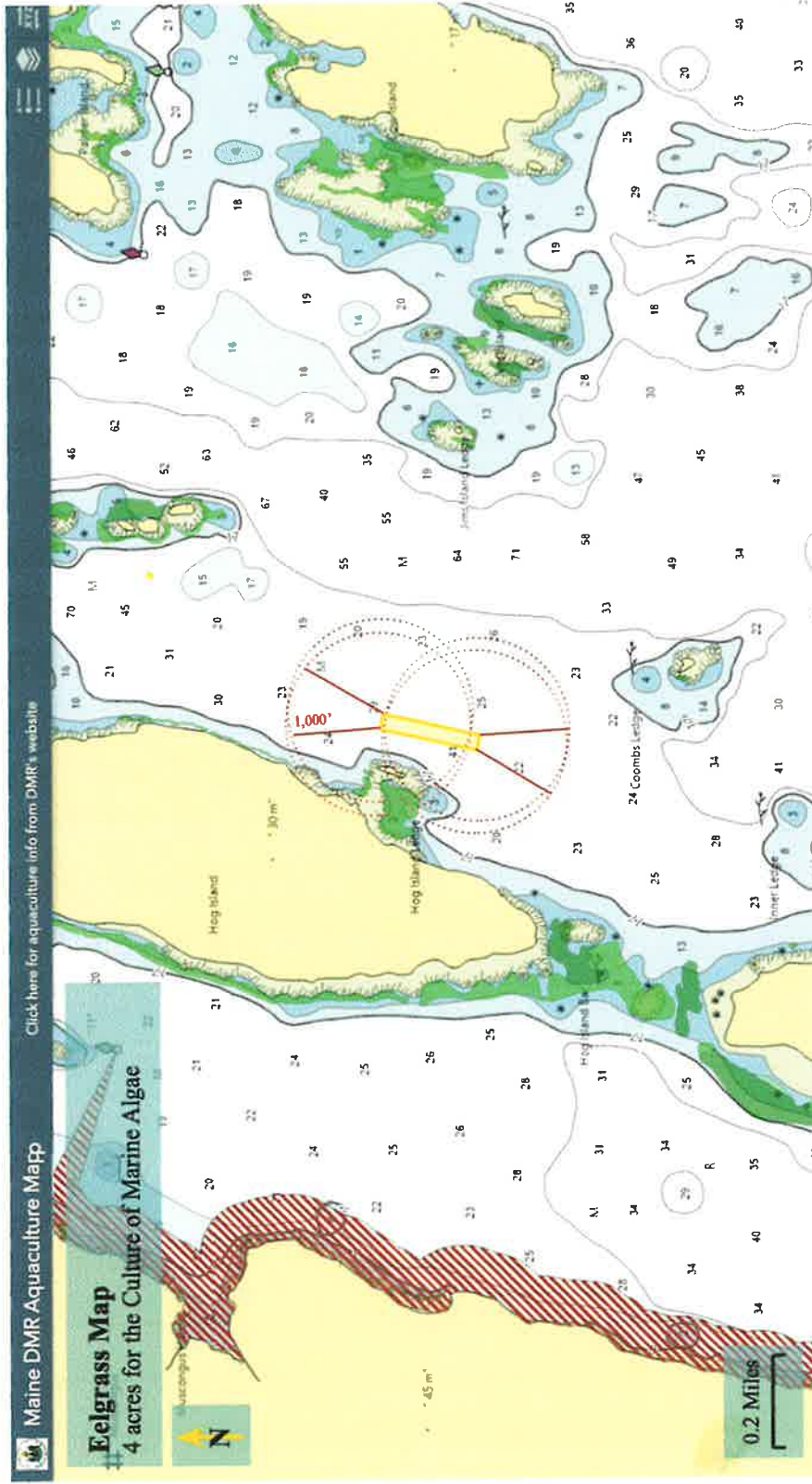


Figure 3. Eelgrass Map



**Figure 4a. Overhead View when Site is in Operation (October 15<sup>th</sup> - May 31<sup>st</sup>)**

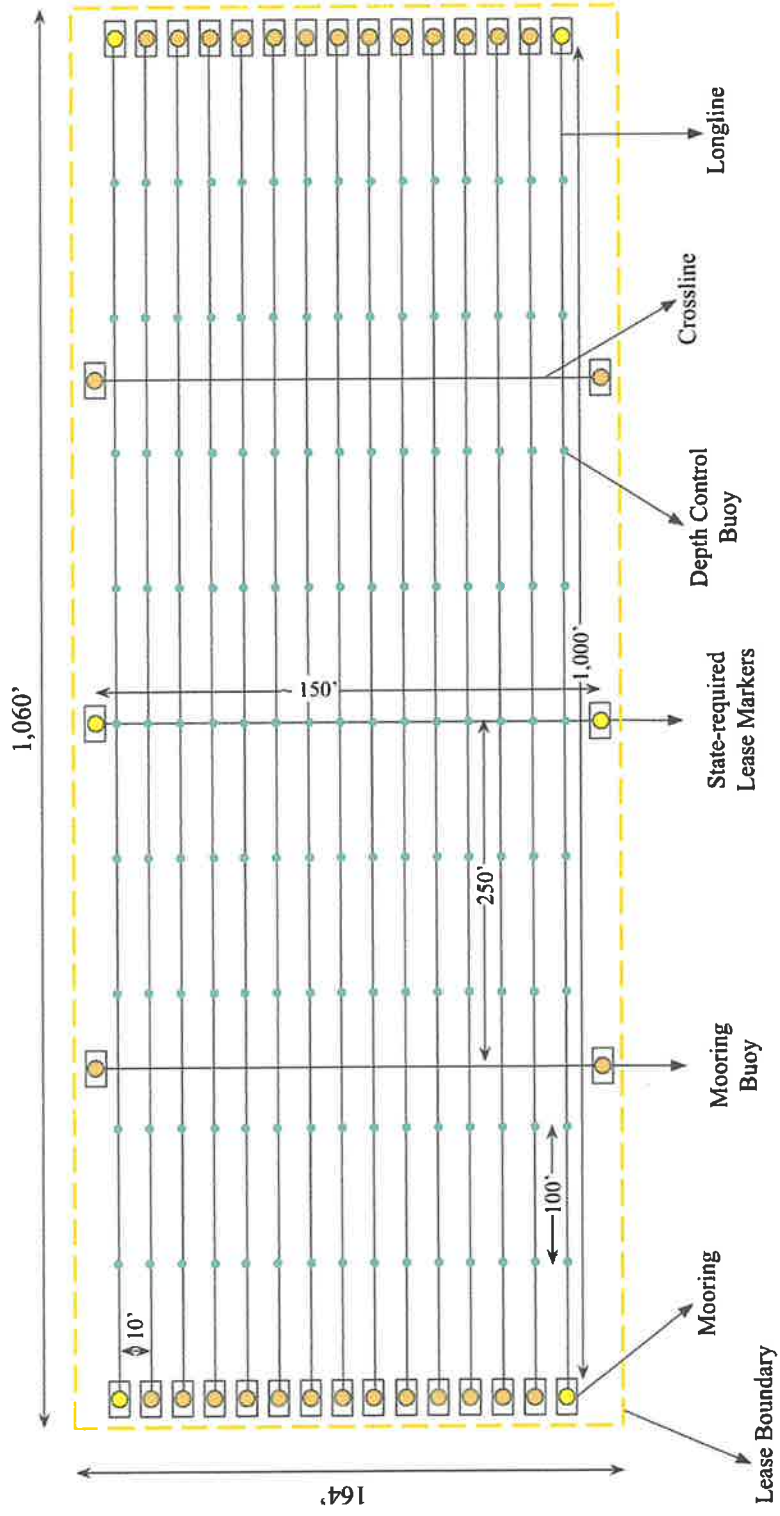


Figure 4b. Overhead View during Off Season (June 1st - October 14<sup>th</sup>)

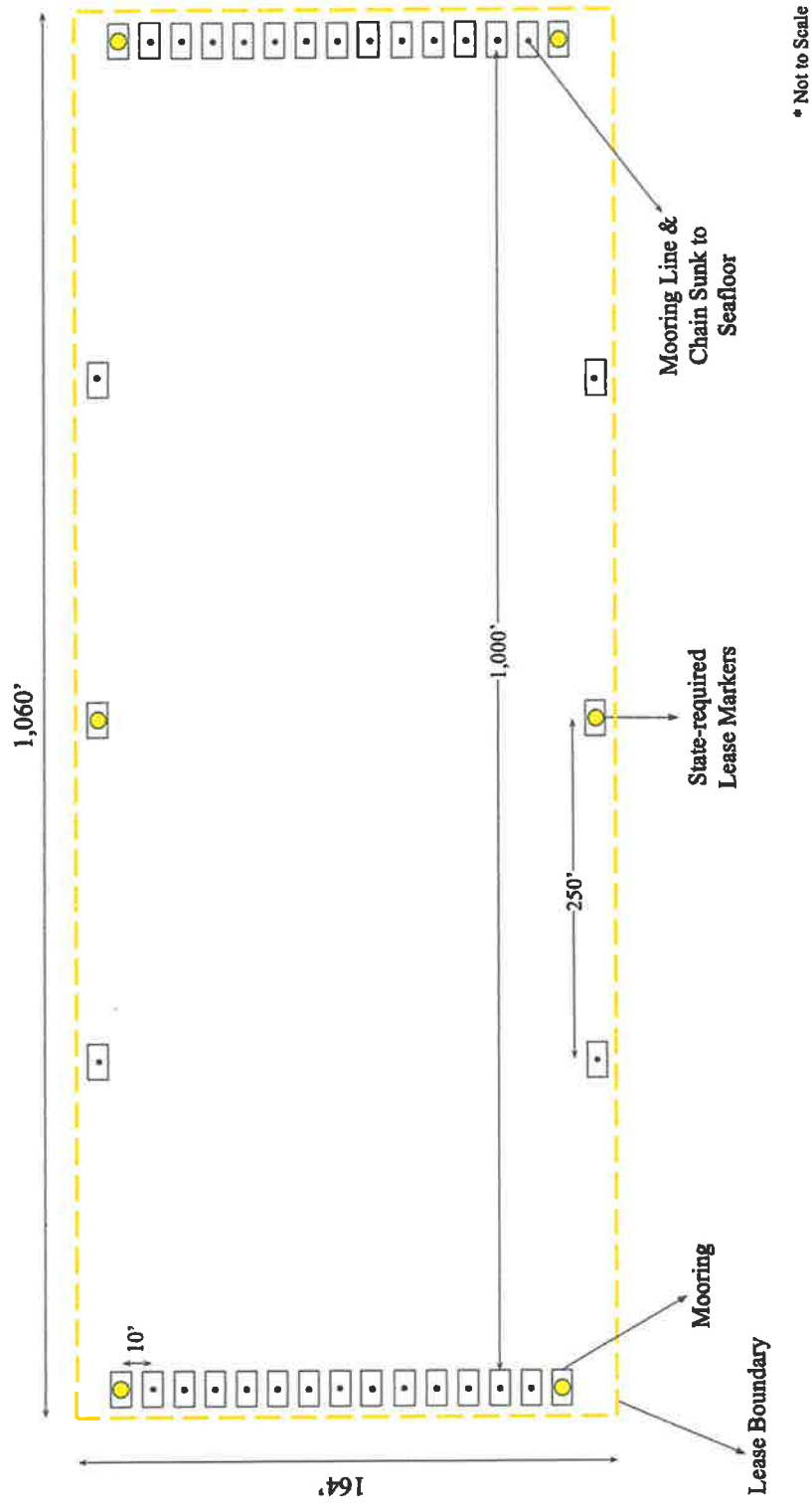
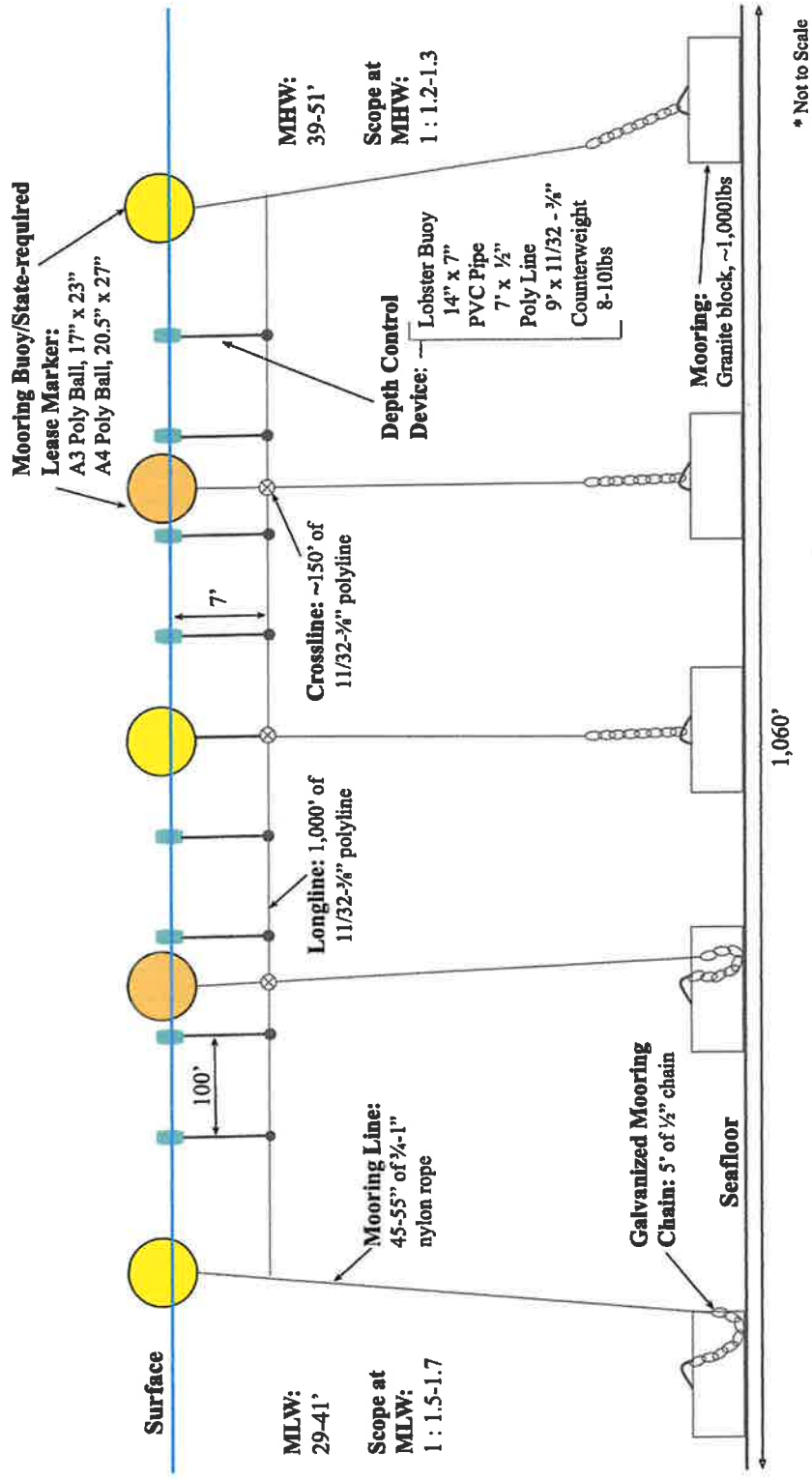
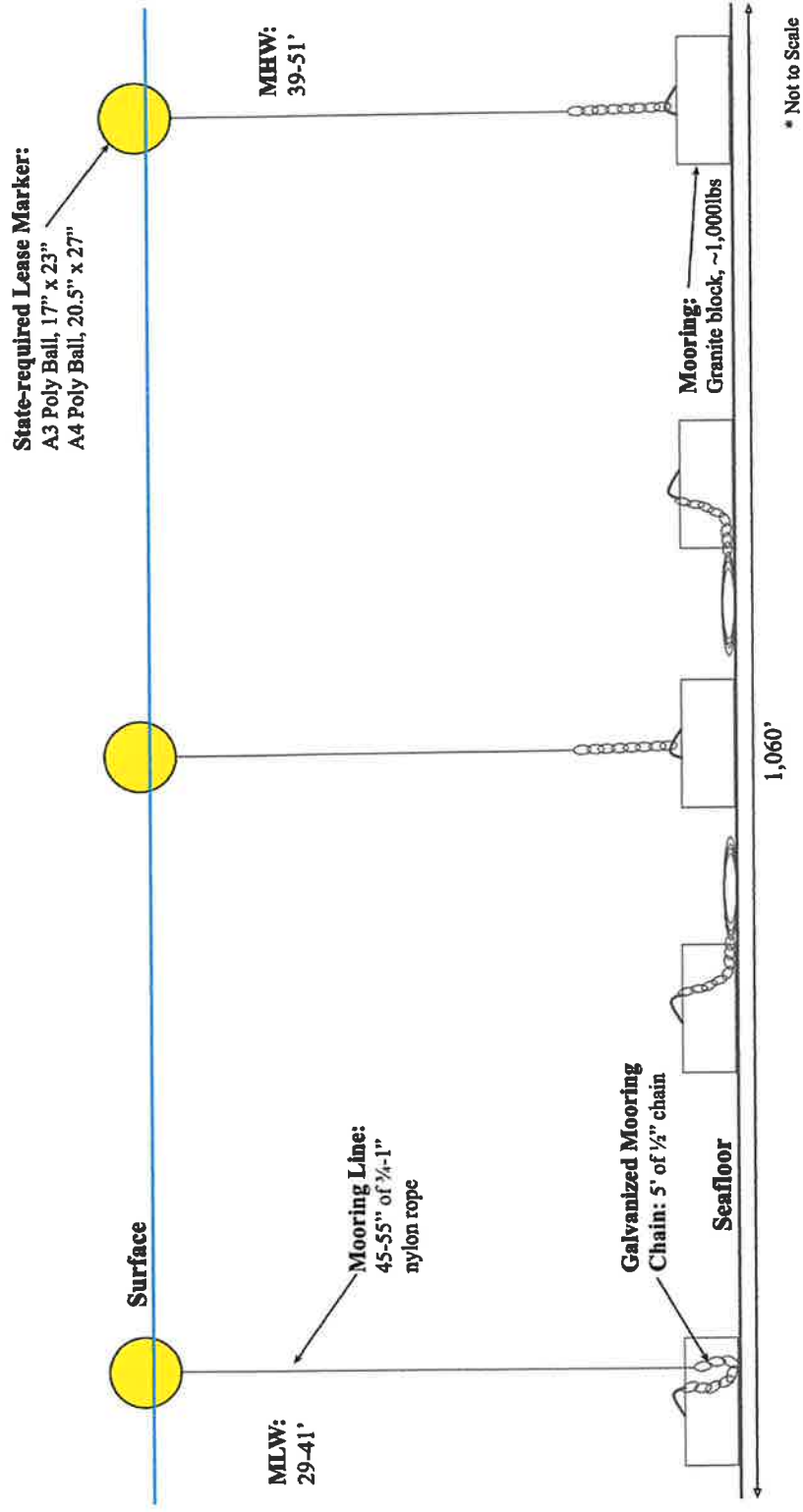


Figure 5a. Cross-Section View when Site is in Operation (October 15<sup>th</sup> - May 31<sup>st</sup>)



**Figure 5b. Cross-Section View during Off Season (June 1st - October 14<sup>th</sup>)**



**Figure 6. Gear Drawing**

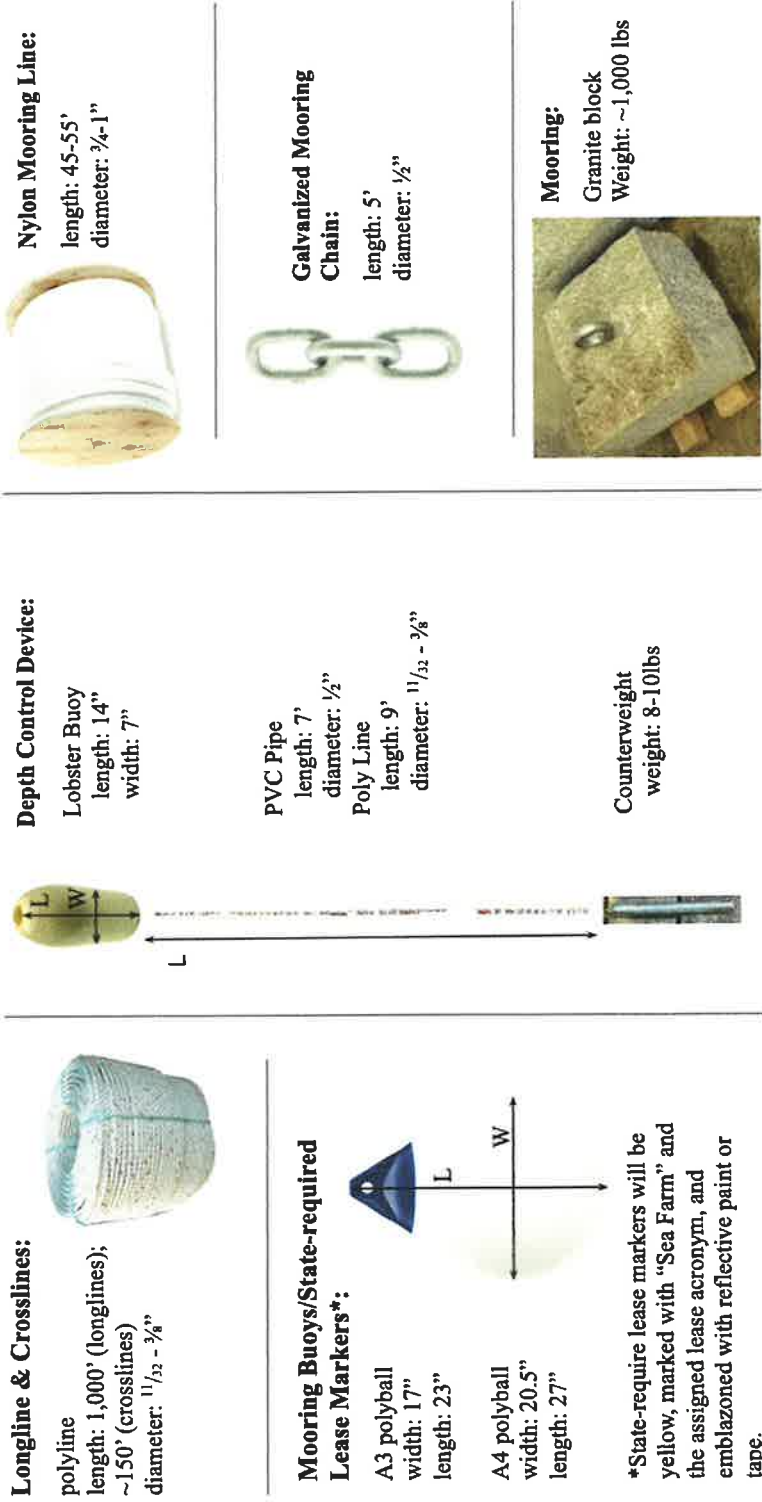
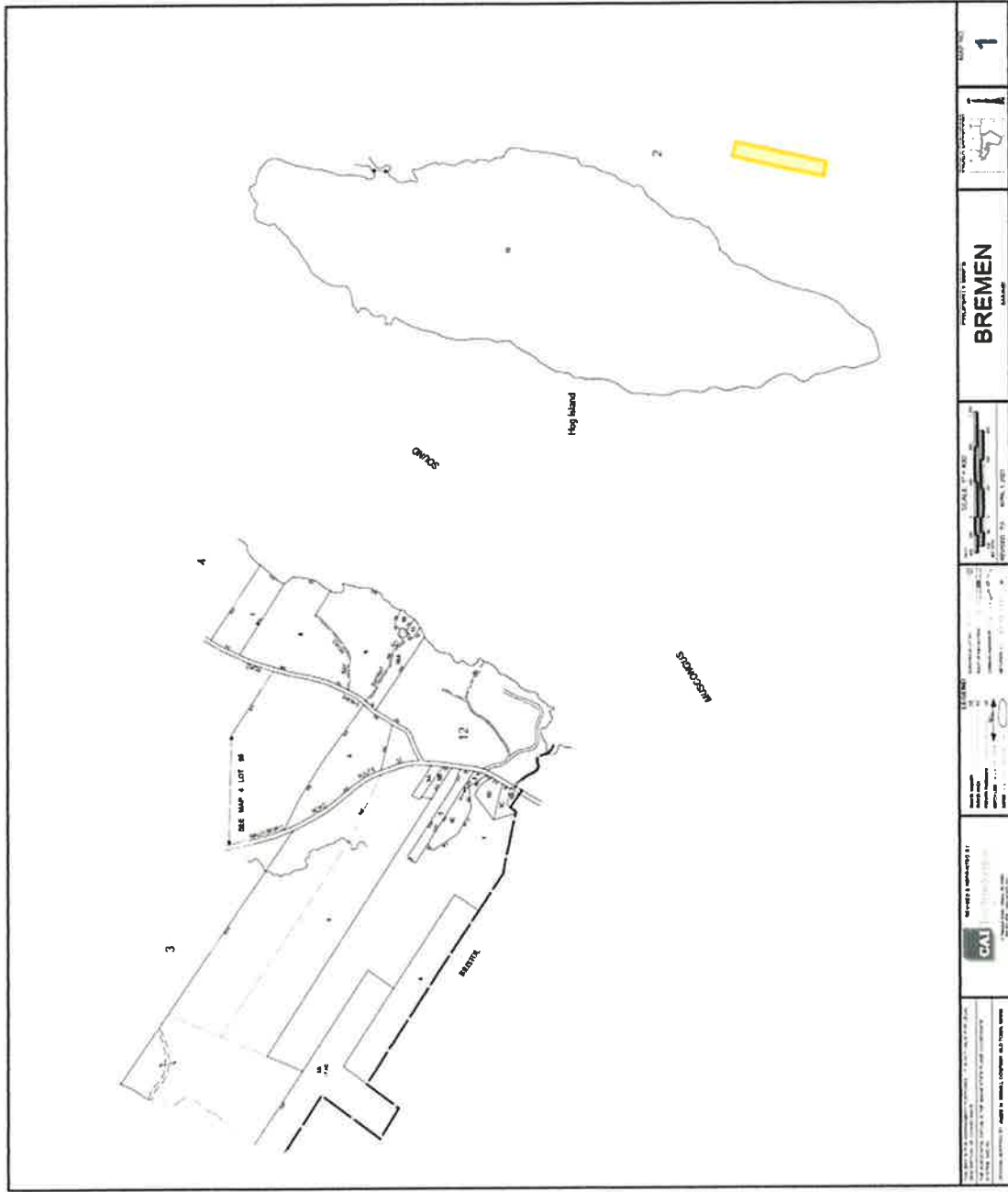




Figure 7. Tax Map: Town of Bremen





**MAINE DEPARTMENT OF MARINE RESOURCES**

Aquaculture Division, 21 State House Station, Augusta, ME 04333-0021 (207) 624-6567

**CORPORATE APPLICANT FORM**  
**For Standard and Experimental Aquaculture Lease Applications**

Corporations or partnerships that apply for aquaculture leases in the State of Maine must complete this form. Corporations must submit information as requested under A. Corporate Applicant. Partnerships must submit information as requested under B. Partnership Applicant.

**A. Corporate Applicant**

**Note:** You must attach a copy of the Articles of Incorporation (Inc.) or Certificate of Formation (LLC) to your application.

- 1. Name of Corporation: JDL Fisheries LLC
- 2. Date of incorporation: December 2023 State of incorporation: Maine

3. List the names, addresses, and titles of all officers:

Name	Address	Title
David N. Osier	291 Medomak Road Bremen, ME 04551	President
David N. Osier	291 Medomak Road Bremen, ME 04551	Treasurer

**Please use additional sheets if necessary and attach to the application.**

4. List the names and addresses of all directors/members:

Name	Address
David N. Osier	291 Medomak Rd. Bremen, ME 04551

**Please use additional sheets if necessary and attach to the application.**

5. Has the corporation, or any stockholder, director, or officer applied for an aquaculture lease for Maine lands in the past?  Yes  No

If you selected "yes," please indicate who applied for the lease and the status of the application or lease.

6. List the names and addresses of all stockholders who own or control at least 5% of the outstanding stock and the percentage of outstanding stock currently owned or controlled by each stockholder.

Name	Address	Percentage of Owned Stock
David N. Osier	291 Medomak Road Bremen, ME 04551	100 %

**Please use additional sheets if necessary and attach to the application.**

7. List the names and addresses of stockholders, directors, or officers owning an interest, either directly or beneficially, in any other Maine aquaculture leases, as well as the quantity of acreage from existing aquaculture leases attributed to each such person based on the percentage of owned stock listed in question 6. If none, write, "None."

Name	Address	Lease Acronym	Acreage
None			

**Please use additional sheets if necessary and attach to the application.**

8. Has the corporation or any officer, director, member, or shareholder listed in item 5 above ever been arrested, indicted, convicted of, or adjudicated to be responsible for any violation of any marine resources or environmental protection law, whether state or federal?

Yes  No

If you selected "yes", please provide details.

MAINE  
LIMITED LIABILITY COMPANY  
STATE OF MAINE  
CERTIFICATE OF FORMATION

Charter Number: 202401577DC  
Filing Number: 20240118214530741 Pages: 2  
Form: DLLC Fee Paid: \$175  
Filing Date: 01/16/2024 12:00AM

  
Deputy Secretary of State

A True Copy When Attested By Signature

Deputy Secretary of State

Pursuant to 31 MRS §1531, the undersigned executes and delivers the following Certificate of Formation:

**FIRST:** The name of the limited liability company is:

**JDL Fisheries LLC**

(A limited liability company name must contain the words "limited liability company" or "limited company" or the abbreviation "L.L.C.," "LLC," "L.C." or "LC" or, in the case of a low-profit limited liability company, "L3C" or "l3c"—see 31 MRS §1508.)

**SECOND:** Filing Date: (select one)

- Date of this filing; or  
 Later effective date (specified here): \_\_\_\_\_

**THIRD:** Designation as a low profit LLC (Check only if applicable):

- This is a low-profit limited liability company pursuant to 31 MRS §1611 meeting all qualifications set forth here:
- A. The company intends to qualify as a low-profit limited liability company;
  - B. The company must at all times significantly further the accomplishment of one or more of the charitable or educational purposes within the meaning of Section 170(c)(2)(B) of the Internal Revenue Code of 1986, as it may be amended, revised or succeeded, and must list the specific charitable or educational purposes the company will further;
  - C. No significant purpose of the company is the production of income or the appreciation of property. The fact that a person produces significant income or capital appreciation is not, in the absence of other factors, conclusive evidence of a significant purpose involving the production of income or the appreciation of property; and
  - D. No purpose of the company is to accomplish one or more political or legislative purpose within the meaning of Section 170(c)(2)(D) of the Internal Revenue Code of 1986, or its successor.

**FOURTH:** Designation as a professional LLC (Check only if applicable):

- This is a professional limited liability company\* formed pursuant to 13 MRS Chapter 22-A to provide the following professional services:

\_\_\_\_\_  
(Type of professional services)

Form No. MLLC-6 (1 of 2)

**FIFTH:** The Registered Agent is a: (select either a Commercial or Noncommercial Registered Agent)

Commercial Registered Agent CRA Public Number: \_\_\_\_\_

\_\_\_\_\_  
(Name of commercial registered agent)

Noncommercial Registered Agent

**Back River Financial Services INC**

\_\_\_\_\_  
(Name of noncommercial registered agent)

**690 Maine Ave, Farmingdale, ME 04344**

\_\_\_\_\_  
(physical location, not P.O. Box – street, city, state and zip code)

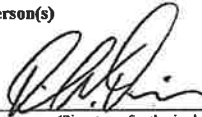
\_\_\_\_\_  
(mailing address if different from above)

**SIXTH:** Pursuant to 5 MRSA §105.2, the registered agent listed above has consented to serve as the registered agent for this limited liability company.

**SEVENTH:** Other matters the members determine to include are set forth in the attached Exhibit \_\_\_\_\_, and made a part hereof.

**\*\*Authorized person(s)**

**Dated** 12/1/2023



\_\_\_\_\_  
(Signature of authorized person)

**David N. Osier**

\_\_\_\_\_  
(Type or print name of authorized person)

\_\_\_\_\_  
(Signature of authorized person)

\_\_\_\_\_  
(Type or print name of authorized person)

**\*Examples of professional service limited liability companies are accountants, attorneys, chiropractors, dentists, registered nurses and veterinarians. (This is not an inclusive list – see 13 MRSA §723.7)**

**\*\*Pursuant to 31 MRSA §1676.1.A, Certificate of Formation MUST be signed by at least one authorized person.**

The execution of this certificate constitutes an oath or affirmation under the penalties of false swearing under 17-A MRSA §453.

Please remit your payment made payable to the Maine Secretary of State.

Submit completed form to:

**Secretary of State  
Division of Corporations, UCC and Commissions  
101 State House Station  
Augusta, ME 04333-0101  
Telephone Inquiries: (207) 624-7752**

Email Inquiries: [CEC.Corporations@Maine.gov](mailto:CEC.Corporations@Maine.gov)

Form No. MLLC-6 (2 of 2) Rev. 10/31/2012

**From:** E Snyder snyder.eh@gmail.com  
**Subject:** Re: Seaweed lease off of Hog  
**Date:** November 29, 2023 at 2:22 PM  
**To:** David Osier dosier117@gmail.com

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Hi David,

Your sentiments regarding the Crow island site reflect our views as well and we did submit public comment saying as much. The crotch island site held fewer concerns for us and we did not officially comment on that. I wonder what the final decision will be.

I have talked to our partners and other staff here, and I have received no pushback or concern regarding your lease. I wish you the best of luck in the process and hope you will keep me in the loop as this progresses. I'll look forward to seeing you on Hog Island sometime this coming summer.

Best of luck in your endeavors.

Regards,  
Eric Snyder  
National Audubon Society  
570-766-8093



December 18, 2023

Department of Marine Resources  
Attn: Aquaculture Division  
21 State House Station  
Augusta, Maine 04333-0021

Dear Aquaculture Division of the Department of Marine Resources,

I am writing in support of David Osier's (Applicant: JDL Fisheries, LLC) experimental lease application located in Muscongus Bay in the waters of Bremen.

Our mission at Atlantic Sea Farms (ASF) is focused on providing diversified income opportunities for Maine fishermen through seaweed farming. We currently work with 36 partner farmers throughout the coast of Maine – most of whom are commercial fishermen or professional aquaculturists. As a result of these partnerships the US' sustainable kelp aquaculture sector has been led by Maine's hard working fishermen, coastal communities have benefited from economic development, and seaweed cultivation has aided in removing carbon and nitrogen and in mitigating ocean acidification in our local coastal waters.

We believe that Mr. Osier will be a responsible farmer and that their work will have a positive economic impact on their community. We have worked with Mr. Osier to find a site that does not negatively impact commercial or recreational fishing, recreational activities, landowner access, or other aquaculture operations. As part of Mr. Osier's partnership with ASF, in addition to lease application support, we will provide technical assistance, supply native kelp seeds from our state of the art cultivation center for permitted species free of charge, and guarantee purchase of 100% of seaweed grown.

I thank you for your time. Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Liz MacDonald".

Liz MacDonald  
Seaweed Supply Director  
[lmacdonald@atlanticseafarms.com](mailto:lmacdonald@atlanticseafarms.com)

Atlantic Sea Farms  
20 Pomerleau St.  
Biddeford, ME 04005