STANDARD LEASE APPLICATION: NON-DISCHARGE

1. APPLICANT CONTACT INFORMATION

Applicant	Downeast Institute			
Contact Person	Dianne Tilton or S	ara Randall		
Address	PO Box 83, 39 Wi	ldflower Lane		
City	Beals			
State, Zip	ME 04611			
County	Washington			
Telephone	207-497-5769			
Email	dtilton@downeastinstitute.org; srandall@downeastinstitute.org		astinstitute.org	
Type of Application	☐ Draft Application		Final Application	
	[submitted before sco	oping session session]	[subm	nitted after scoping session]
	Pre-Application	Draft Application St	ubmitted:	Scoping Session:
Dates	Meeting:	1. Apr. 25, 2023 (ini	tial draft)	Dec. 6, 2023
		2. July 31, 2023 (rev		
		3. Sept. 7, 2023 (2 nd	revised	
		draft)		
T	Draft Application:		Final Application:	
Payment Type	☐ Check (included) ☐ Credit Card		☐ Check (included) ☐ Credit Card	
	4			

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

2. PROPOSED LEASE SITE INFORMATION

Location of Proposed Lease Site			
Town	Beals		
Waterbody	Mud Hole Cove		
General Description	Near Mud Hole Point in Eastern Bay		
(e.g. south of B Island)			
Lease Information			
Total acreage requested	3.95		
(100-acre maximum)			
Lease term requested	20		
(20-year maximum)			
Type of culture (check all that apply)	☐ Bottom (no gear)		
	Suspended (gear in the water and/or on the bottom)		

Note: If you selected yes, you need to complete the steps outlined in the section titled: "19. Landowner/Municipal Permission Requirements.

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):	EN
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.

4. SPECIES 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
1.	Soft-Shell Clams Mya arenaria	Downeast Institute 39 Wildflower Lane, Beals, ME	4.5 million 10-15mm juveniles (1000kg)
2.	Arctic Surf Clams Mactromeris polynyma	Downeast Institute 39 Wildflower Lane, Beals, ME	2,600,000 juveniles at 2mm or 36000 @ 10-15mm (8kg)
3.	American Oysters Crassostrea virginica	Downeast Institute 39 Wildflower Lane, Beals, ME	400,000 7-8 mm or 20,000 adults (1000kg)
4.	European Oysters Ostrea edulis	DEI,pending DMR approval 39 Wildflower Lane, Beals, ME	400,000 7-8 mm or 20,000 adults (1000kg)
5.	Razor Clams Ensis leei	DEI, pending DMR approval 39 Wildflower Lane, Beals, ME	4.5 million 10-15 mm (1000kg)
6.	Blue Mussels Mytilus Edulis	Downeast Institute, 39 Wildflower Lane, Beals, ME	239,100 @ 10-15 cm

7.	Sea Scallop Placopecten magellanicus	Wild seed collected by individual with applicable licenses: Alex de Koning, Frenchman's Bay or Downeast Institute, pending DMR Approval 39 Wildflower Lane, Beals, ME	2000 @ 2mm to 10mm
8.	Hard Clam Mercenaria mercenaria	Downeast Institute,39 Wildflower Lane, Beals, ME	2 million @ 2mm to 10cm

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

If you answered "yes" please contact the Bureau of Public Health to discuss your plans at the following email: 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: <a href="maintained-number-plan-number-p

5. VICINITY MAP

Note: Please label as: '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 scale bar
- The approximate lease boundaries

Vicinity Map- see page: 68

6. BOUNDARY DRAWING

Note: Please label as: '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:

• <u>Coordinate Description</u>

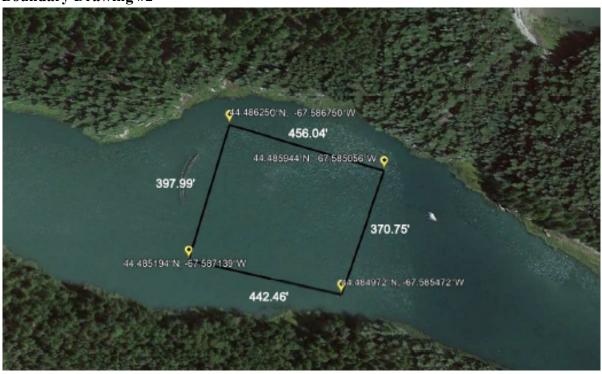
Provide geographic coordinates for each corner of the lease site in latitude and longitude in decimal degrees (e.g., 43.123456 N, -69.123456 W) Identify the datum from the map, chart, or GPS unit used to develop these coordinates. The datum will be shown on the map or chart you are using. The Coordinate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

Boundary Drawing #1



44.486250°N, -67.586750°W 44.485944°N, -67.585056°W 44.485194°N, -67.587139°W 44.484972°N, -67.585472°W

Boundary Drawing #2



7. SITE DEVELOPMENT

Directions: 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 gear drawings and maximum structure schematics (information below). This section is intended to provide accurate plans depicting the physical structures to be placed in the proposed area. All dimensions need to be labeled with the appropriate units (i.e. 10ft, 10in). If you are proposing a bottom lease (no gear), please skip to question "F. Marking".

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

A. Gear Information

Directions: Include a drawing of an individual piece of gear for each of the gear type(s) you plan to use. Include units referenced (i.e. 10in, 10ft, etc.).

- 1. <u>Gear Drawing:</u> Please include the following for each gear type that will hold organisms to be cultured (e.g. polar circles, marine algae longlines, oyster cages) and label as "Gear Drawing". This view must show the following:
 - Length, width, and height of each gear type.

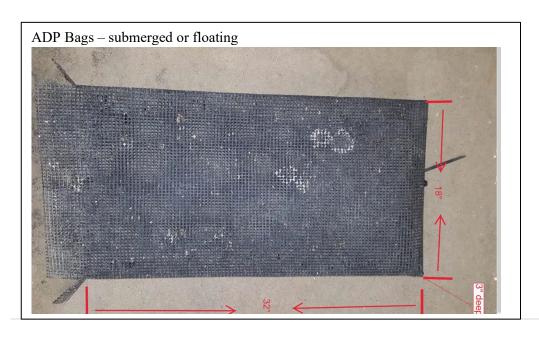
Gear Drawing(s)

1) Floating Tray



Floating wooden trays

2) ADPI Oyster Bags (floating in the Spring to Fall, submerged in the winter)



3) Mussel Buoys

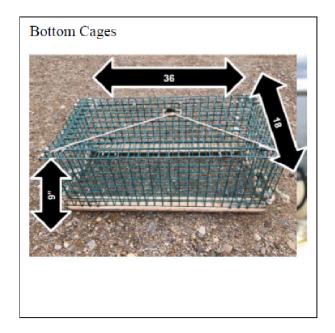


Mussel buoy is 16" dia.

4) Lantern Nets



5) Weighted Vinyl Coated Bottom Cages



6) Cinder Block Anchors



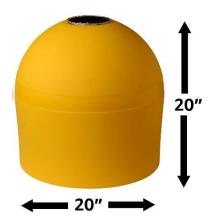
8" x 8" x 16"

7) Lobster Buoys



Lobster buoy is 5" dia. x 11" long.

8. Corner Marker Buoy



9. ½" Galvanized Mooring Chain



10. Concrete Block (anchor)



Pyramid shaped- 22" x 22" x 36"

2. <u>Gear Table</u>: List and describe each individual gear type that you will use in the table below. (e.g. polar circles, marine algae longline, oyster cages, moorings, mooring lines, buoys, etc.).

Specific Gear Type (e.g. soft mesh bag)	Dimensions (e.g. 16"x20"x2")	Time of year gear will be deployed (e.g. Spring, Winter, etc.)	Maximum amount of this gear type that will be deployed on the site (i.e. 200 cages, 100 lantern nets, etc.)	Species that will be grown using this gear type
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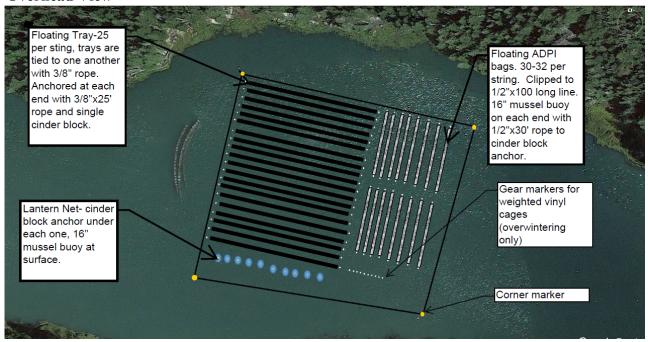
1. Floating Trays	36" x 48" x 3" deep	May 1- June 30	Maximum of 500	Soft-shell clams, hard clams, Arctic Surf Clams, razor clams, American and European oysters, scallops
2. Floating ADPI Oyster Bags	18" x 32"x 3"deep	May 1-June 30	Maximum of 500	American and European oysters
3. Mussel Buoys	16" diameter	Could be year round	Up to 10	All listed
4. Lantern Nets	20" dia. x 6"	June 1- Dec. 31	10	Sea scallops
5. Weighted Vinyl Coated Bottom Cages	36" x 18" x 9"	Dec. 31 - June 1	10	Sea scallops, American and European oysters
6. Cinder Block Anchors	8" x 8"x 16"	8" x 8"x 16"	Up to 82	All listed
7. Lobster Buoys	5" dia. x 11"	Dec. 31- June 1	Up to 82	All listed
8. Corner Marker Buoy	20" x 20" (lighted)	Year-round	4	n/a
9. Mooring chain	½" x 25'	Year-round	4	n/a
10. Concrete Block (anchor)	22" x 22"x 36" -300 lbs.	Year-round	4	n/a

B. Maximum Structure and Mooring System Schematic

Directions: Include drawings of your maximum gear layout. Include units referenced (i.e. 10in, 10ft, etc.).

- 1. Overhead View. Please include the following and label as "Overhead View":
 - Maximum layout of gear, including moorings.
 - Length and width of project.
 - Approximate spacing between gear.
 - Lease boundaries and the location of proposed corner markers and any additional gear markers that would be present.

Overhead View



Length & Width:

<u>Length of lease</u>: 456.04 ft between NW and NE boundary points. 442.46 ft between SW and SE boundary.

Width of lease: 392.99 ft between NW and SW points. 442.46 ft between SW and SE points.

Gear Spacing:

<u>Floating trays</u> are tied to one another so there's almost no space between them. They are 25 per row and the rows are approximately 8' apart.

<u>ADPI oyster bags</u> are clipped onto a longline so there's no space between them. Each long line is approximately 8' apart and there's approximately 30' between the two groups of rows to allow the boat a path. Long lines are approximately 100' long, with a cinder block anchor, 3/8" x 30' nylon anchor line and mussel buoy on each end.

Lantern nets are spaced 6-8' apart.

2. <u>Cross-Section View.</u> Please include the following and label as "Cross-Section

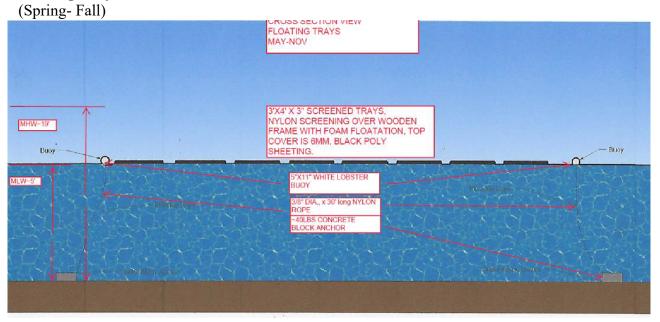
View":

- 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.
- Depth of gear in relation to the water's surface at mean low water and mean high water (if applicable).

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).

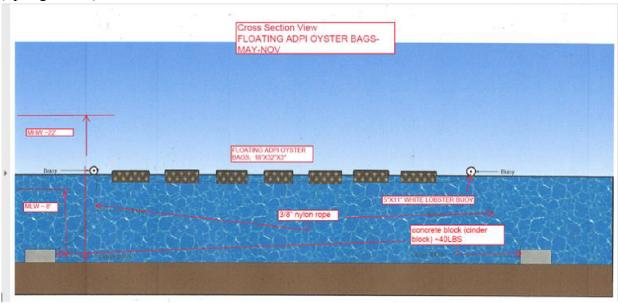
Cross-Section View(s)

Floating Trays



Cross Section View(s) Floating ADPI Oyster Bags

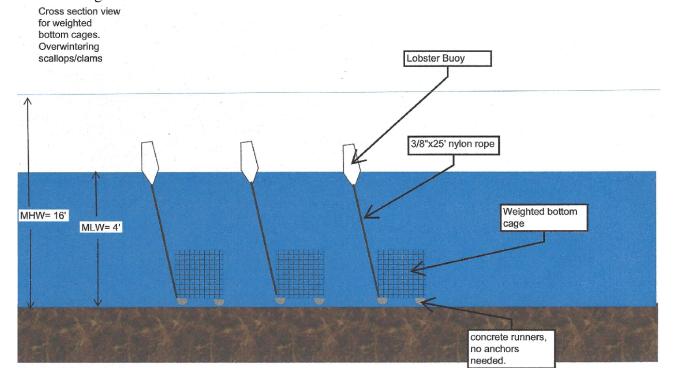
(Spring to Fall)



Floating Oyster Bags

Weighted Vinyl Coated Bottom Cages

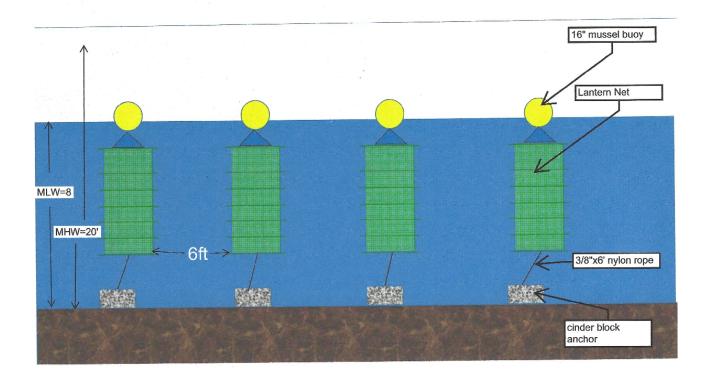
Overwintering



Lantern Nets

Floated with a mussel buoy, cinder block anchor. Spaced 8'-10' apart.

June 1- December 31



C. On-Site Support Structures

1. Describe structures such as barges, sheds, etc., to be located on-site. Provide a schematic and indicate the dimensions, including height above sea level, materials, etc.

There are no support structures on site.

2. Describe the storage and use of oil, gasoline, or other hazardous materials on site. If petroleum products are to be stored on site, provide a spill prevention plan.

There is no gasoline, oil or other hazardous material stored on site.

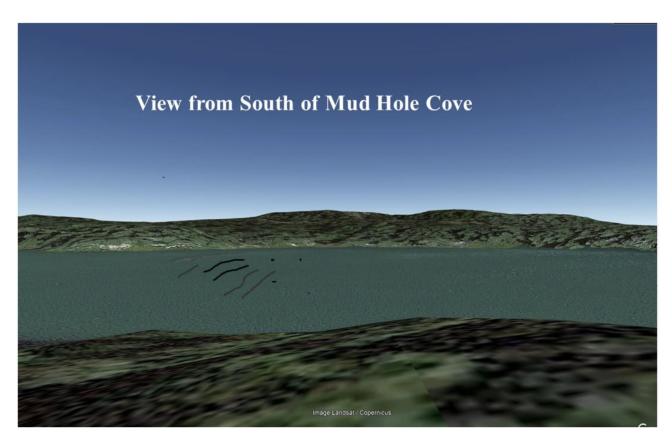
D. Gear Color

Provide the color of the gear and structures proposed to be used at the lease site.

Floating trays, lantern nets and ADPI bags are black, bottom cages are green, mussel buoys can be yellow or black, lobster buoys are white. There will be yellow corner markers on each corner of the lease.

E. Equipment Layout

Provide schematic or photographic renderings of the generalized layout of the equipment as depicted from two vantage points on the water. Provide the locations of the two vantage points.





F. 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. Effective January 1, 2023, marker buoys need to 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: 1st Coast Guard District, Aids to Navigation Office ((617)-223-3293).

8. PRODUCTION ACTIVITIES

Directions: If you are cultivating more than one species, you will need to provide the following information for <u>each</u> species. Please attach additional pages if needed.

A. Please explain your proposed seeding activities. What months will seeding occur and how often will you be onsite to seed during this time.
This lease is used primarily as a nursery site. 2mm or smaller seed is deployed and grown to approximately 8mm. Deployment for all species occurs between May 1 to July 1. Deployment typically takes up to 4 days, taking up to 8 trips per day by boat to the site.
B. Please explain your proposed tending/maintenance activities.
Floating trays (Soft-shell clams, hard clams, Arctic surf clams, Razor clams, American and European oysters) and ADPI bags (European and American oysters) are checked regularly. ADPI bags would be flipped every other week, trays are brushed and sprayed off once a month while deployed.
Bottom cages (scallops, oysters), typically only used for overwintering but could be used during summer months, would be periodically pulled up for inspection/cleaning.
C. How frequently will you visit the site for routine tending/maintenance (i.e. flipping cages, etc.)?
At least once a week for all species.
D. Describe the harvesting techniques you will use. If you plan on using a drag, please provide the dimensions.
No harvesting would occur on this site.

E. How often will you be at the site during harvesting periods? No harvesting. F. Will gear be on the site year-round? ☑ Yes ☐ No G. 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 removed from the site. Floating trays (soft-shell clams, hard clams, Arctic surf clams, Razor clams, American and European oysters), along with their anchors, anchor lines and buoys would be removed each fall. Floating ADPI oyster bags would be emptied and removed, some animals could be overwintered on bottom in bottom cages. Lantern nets (scallops) could be deployed throughout the year. H. Please provide details on any predator control techniques you plan to employ. The black poly sheeting on the floating trays (soft-shell clams, hard clams, Arctic surf clams, Razor clams, American and European oysters) is used to help protect against bird predation.	
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	11. Flease provide details on any predator control techniques you plan to employ.
Razor clams, American and European oysters) is used to help protect against bird predation.	The black poly sheeting on the floating trays (soft-shell clams, hard clams, Arctic surf clams,
	Razor clams, American and European oysters) is used to help protect against bird predation.
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I. 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)

The	site is propo	osed for	the cu	lture of	f seed	and	occasi	onally	overwi	ntered	seed	that wo	ould be
subn	nerged durii	ng winte	r.										

9. NOISE AND LIGHT

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

A. What type of boats will be used on the site? When and how often will these vessels be on the site?

A 22' fiberglass center console outboard propelled boat will be used on the site. The vessel will be on the site frequently from May-Nov./Dec. After December, site visits are when weather permits, but at least every other week.
B. What type of powered equipment (e.g. generator, power washer, grading equipment, barges, etc.) will be used on the site? When and how often will the equipment be used?
The outboard is a very quiet 4 stroke, and is either idling or shut down while on site. No power washers are used on site. Gear is sprayed/cleaned using a brush, a 12v electric washdown pump equipped with a garden hose sprayer.
Grading is done before the animals are deployed to the site and again when they return to our land-based facility.
C. Specify how you intend to reduce noise levels from the boats and other powered equipment.
The boat engine (outboard) is shut down when not in use. However, when idling the outboard is very quiet.
D. Provide the number, type (whether fixtures are shielded), wattage and location of lights, other than those used for navigation or marking, that will be used at the proposed lease site.
No work lights will be used on this site. Daytime work only.
E. Indicate under what circumstances you might work at your site beyond daylight hours.

We do not anticipate working on this site beyond daylight hours.
10. 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.
JROB520; JROB620; JROB720; JROB820; KPEP120; KPEP220; KPEP320; KPEP420; DTIL621; DTIL721; DTIL821; BSAL121; BELL122; BELL222; BELL322; BELL422; MELBA 0009; EAST MHCx; EAST JPx; EAST Epx
B. What are your plans for any existing leases and/or Limited Purpose Aquaculture (LPA) licenses if the lease is granted? Will any existing leases and/or LPA licenses be relinquished if the lease is granted? If so, please indicate which ones.
All other LPAs and leases will be retained as they are in different locations.
The future plans for our experimental lease East MHCx is to become a standard lease and to continue to experiment with nursery and grow-out techniques and grow shellfish seed for municipalities and farms.
11. 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?
1 ft – 10 ft.

B. What are the approximate depths at mean high water?
13 ft – 22 ft
C. Provide the approximate current speed and direction during the ebb and flow.
The flood tide direction is east to west @apprx. 0.5 knots
The ebb tide direction is west to east @ apprx. 0.5 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.)?
Soft mud.
2. Describe the bottom topography (flat, steep rough, etc.).
Flat over much of the area with a few holes (4') that are dispersed around the northeast corner of the lease.
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?
The area within the lease site has very few organisms on the bottom. There are no lobster traps that are fished in this area, and we have not observed lobsters when we have pulled our anchors it the fall and winter. There are several species of non-commercial polychaete worms (<i>Amphitrite johnstoni</i> and <i>terebellids</i>). We have observed green crabs (<i>Carcinus maenas</i>), wrymouth fish (<i>Cryptacanthodes maculatus</i>), northern moon snails (<i>Euspira heros</i>) and the nemertean

rare. Green crabs are abundant.

4. Are there shellfish beds or fish migration routes in the surrounding area? If so, please
describe.
There are no shellfish beds or fish migration routes in Mud Hole Cove.
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.
We have not observed eelgrass, Zostera marina, in the proposed lease site since 1987. This
includes annual observations from June through November for this period (31 years).

6. Describe the general shoreline and upland characteristics (rocky shoreline, forested, residential, etc.)
The shoreline on both the north and south side of the proposed lease site is rocky (covered with
1
knotted wrackweed, <i>Ascophyllum nodosum</i>), leading immediately to forest that is dominated by
red and white spruce $-$ <i>Picea rubens</i> and P . <i>glauca</i> , respectively.
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
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3. Boating Activities (please also include the distance to any navigable channel(s) from your proposed site at low water)
Boating activities are limited to occasional small pleasure vessels. The site is approximately 3,000 feet from a navigable channel at low tide.
5,000 feet from a navigable channel at low fide.
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.)
N/A
5. Other uses (kayaking, swimming, etc.)
No other uses of this site have been observed or are known to occur.
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 the
proposed lease.
There is one mooring for a recreational boat in Mud Hole Cove, marked by a 24" white buoy,
approximate coordinates are 44.485596N, 67.585416W. The mooring would be in our lease, and
we have no problem with it remaining.
C. Are there public beaches, parks, docking facilities or federally, state, or municipally
conserved lands within 1,000 feet of the proposed lease site? If yes, please describe and include approximate distances from proposed lease.
and meride approximate distances from proposed rease.
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

JROB520; JROB620; JROB720; JROB20 These are LPAs for a research project we are conducting. No conflict exists.

13. EXCLUSIVE USE

If your lease is granted, what activities would you request be excluded from occurring within the boundaries of the lease site? In your answer please address applicable commercial and recreational fishing, boating activities, and other activities you listed in the 'Existing Uses' section of this application.

We would like dragging to be prohibited, as well as future moorings. We are not asking for the existing mooring to be moved.

14. 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 <u>labeled</u> 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 pages 55 & 56

2. Please use the <u>Riparian Landowner List</u> (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

<u>Note:</u> When the application and riparian list are both ready to be submitted, you may choose to email a copy of the riparian list and proposed lease coordinates to DMRAquaculture@maine.gov for staff to verify that all required parcels are included on the list *before* having it certified by the municipality. DMR will not verify a riparian list multiple times, so please ensure there will be no additional changes to the application before emailing the riparian list for verification.

3. If any portion of the site is intertidal, you need to complete the steps outlined in the section titled: "19. 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 "19. Landowner/Municipal Permission Requirements" of this application.
C. How will you access the proposed site?
By boat from municipal landing.
D. How will your proposed activities affect riparian ingress and egress?

There will be no effect.			

RIPARIAN LANDOWNER LIST

THIS LIST MUST BE CERTIFIED

On this list, please show the current landowners' names and mailing addresses as listed in the municipal tax records for all riparian shorefront parcels within 1,000 feet of the proposed lease site along with the map and lot number for each parcel. 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 the parcels are within more than one municipality, provide a separate, certified riparian list for each municipality.

MAP#	LOT#	Landowner name(s) and address(es)
4	12 - 1	Root Estates, Inc. PO Box 456, Oakland ME 04963
4	19	Carver Industries, PO Box 131, Beals, ME 04611
5	2	Nature Conservancy, Fort Andross, 14 Main St., Suite 401, Brunswick
		ME 04011
	* .	
The same services and the same services are same services and the same services and the same services and the same services are same services are same services and the same services are same		
	2	
	9	

Please use additional sheets if necessary and attach hereto.

Brals

TOWN OF:

CERTIFICATION

CERTIFICATION
I, Terry L. Beal, Town Clerk for the Town of Reals certify that the name 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.
Y-1
SIGNED: Lerry & Beal DATE: 4/25/2023

15. TECHNICAL CAPABILITY

Provide information regarding professional expertise. Attaching resume or documentation of
practical experience necessary to accomplish the proposed project would satisfy this requirement.
Please see attached resumes. Page 57.
16. FINANCIAL CAPABILITY
A. Financial Capability
Please provide a letter from a financial institution indicating the applicant has an account in good standing.
Note: Any financial information you submit with your application is part of the public
record. Please exercise discretion when submitting financial information.
Please see attached letter. Page 67.
D. Cook Estimatos
B. Cost Estimates
Please provide cost estimates of the proposed aquaculture activities.
We estimate these activities cost about \$50,000 per year.

17. ESCROW ACCOUNT OR PERFORMANCE BOND

Check the category that describes your operation:

Check Here	Lease Category	Amount of Required Escrow or Performance Bond
	No gear/structure, no discharge	\$500.00
	No gear/structure, discharge	\$500.00
	≤ 400 square feet of gear/structure, no discharge	\$1,500.00
\boxtimes	>400 square feet of gear/structure, no discharge	\$5,000.00*
	Gear/Structure, discharge	\$25,000.00
Regulations Ch an escrow acco	e of applicant)Dianne Tilton napter 2.64(10) (D) and if this proposed lease unt or obtain a performance bond, in the amo	is granted by DMR, I will either oper
Applicant Sign		_Feb. 7, 2024 Date
open an escrow persons listed of I, (printed name Regulations Ch	L APPLICANTS: Each applicant must sign to account or obtain a performance bond. Use to the application. You may attach additional the of applicant (applicant) appear 2.64(10) (D) and if this proposed lease unt or obtain a performance bond, in the amount	he space below for additional pages, if necessary. have read DMR Aquaculture is granted by DMR, I will either oper
Applicant Sign Note: Add title ij	nature f signing on behalf of a corporate applicant.	Date

18. 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 standard lease process.

Printed name: <u>Dianne Tilton</u>
Title (if corporate applicant): Executive Director
Signature: Date: Feb. 7, 2024
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(s) (i.e. President, Treasurer, etc.) of the individual(s) signing on the company's behalf.
Additional Applicant:
Printed name:
Title (if corporate applicant):
Circustumo

19. LANDOWNER/MUNCIPAL PERMISSION REQUIREMENTS (if applicable)

Directions: If any portion of the site is intertidal, you need to complete the steps outlined below.

Step I: Obtain written permission from all intertidal landowners.

Pursuant to DMR Regulations Chapter 2.10(3)(G) the Department requires written permission of every owner of intertidal land in, on, or over which the activity will occur. It is your responsibility to obtain written permission and include it with your application materials. Please note that the Department does not provide forms for landowner permission.

Step II: Determine if the municipality where your site is located has a shellfish conservation program.

Pursuant to 12 MRSA §6072(3) In any municipality with a shellfish conservation program under section 6671, the Commissioner may not lease areas in the **intertidal zone** within the municipality without the consent of the municipal officers.

If the municipality where the proposed lease site is located has a shellfish conservation program, it is your responsibility to obtain consent for the proposed lease site from the municipal officers (i.e. the selectmen or councilors of the town, or the mayor and aldermen or councilors of a city.) Consent means a majority vote of the municipal officers as recorded in a public meeting.

It is your responsibility to contact the municipality and determine if they have a shellfish conservation program. Best practices would include discussing your plans with shellfish committee members, but *only the consent of municipal officers is required*.

Does the municipality, where the proposed site is located, have a shellfish conservation
program? Yes No

If you answered yes, please attach documentation from a public meeting demonstrating that a majority of municipal officers have consented to your proposal.

Note to Applicants:

As you prepare your standard lease application for submission, please review the information below. It is intended to provide you with a general overview of when DMR communicates with applicants during the leasing process. It also includes answers to some frequently asked questions as they pertain to application processing.

When Will I Hear from DMR Regarding My Standard Lease Application?

Unless otherwise specified, DMR communicates with applicants via email. Please monitor any email address listed on your application on a regular basis. DMR communicates with standard lease applicants at specific times during the application review process, and you can expect to hear from DMR at the following times:

1. When your draft application is reviewed for completeness

- DMR strives to review draft applications within 30 days of receipt. However, you may be asked to submit additional materials or clarify aspects of your draft application, and this can lengthen the time it may take for a draft application to reviewed.
- DMR will notify you when the draft application can move forward to a scoping session.

2. When your final application is 'deemed complete'

• DMR strives to review applications within 30 days of receipt. However, you may be asked to submit additional materials or clarify aspects of your application, and this can lengthen the time it may take for an application to be deemed complete.

3. After DMR conducts the site visit a copy of the site report will be sent to you

- DMR conducts site visits for applications in the order they are deemed complete. However, the time of year, weather, and your proposed operations are all factors that may determine when site visits occur.
- Site visits are scheduled and conducted at the discretion of DMR staff. Applicants are usually not present during site visits.
- 4. After the site visit has been conducted and the site report is compiled, DMR will contact you about scheduling the public hearing on your application.
- 5. A copy of the draft decision will be sent to you for review and comment
- **6.** Should a lease be granted, there will be additional communications regarding the execution of your lease.

Communications between an applicant and DMR tend to be more frequent during the application review period. Once an application has been deemed complete, communications become less frequent because the proposal is moving through the leasing process. Although DMR's communication with an applicant may become less frequent, applicants should feel free to contact DMR regarding the status of their proposal.

FAQs-Application Process

Why do I have to submit a "draft application?"

DMR regulations provide that before applicants can schedule a scoping session, they must provide DMR

with a draft lease application. Compiling a draft application helps you think through the important elements of your proposed operations. It also provides members of the public and other stakeholders with a tangible document that they can review and provide feedback on during the scoping session.

DMR will review your draft application and let you know when you can move forward with scheduling a scoping session.

What if, after the scoping session, I don't want to make any changes to the draft application?

If you don't want to make any changes to your draft application, you are still responsible for submitting the following prior to DMR's review of your "final application":

• Submit a new cover page (pg. 1 of this document) and applicant signature page (page 19 of this document) with a copy of the tear sheet advertising the scoping session and the final application fee.

DMR will not review a final application until all items listed above are received.

How does DMR staff review applications (applies to both draft and final applications)?

Applications are reviewed by DMR staff, in the order they are received, at regularly scheduled intervals. DMR staff are reviewing applications to make sure that they contain the requisite information and clearly answer the questions that are being asked. If items are missing or need further clarification, DMR will send you an incomplete letter, which specifies the elements of your application in need of modification. The letter will also include resubmission instructions.

DMR will then review any of the new information or materials you provide. Another incomplete letter may be sent if the additional information or materials need further clarification.

My final application was deemed complete. What does that mean?

The designation "deemed complete" means that the application contains the necessary information for further processing. It does not mean that the proposal will be granted.

How long does the leasing process take?

It depends on a variety of factors including the number of applications currently in process, the time of year an application is deemed complete in consideration of proposed operations, and the complexity of issues raised at a public hearing. These types of factors make it difficult to determine when a final decision on your proposal may be rendered.

When will my lease be granted?

Please note that applying for a lease is not a guarantee that your proposal will be granted. DMR will process your application and render a final decision on the proposal based on applicable evidence as it relates to the lease decision criteria. DMR will send you a copy of the draft proposed decision, which will either grant, or deny the proposal. DMR may also grant the proposal with modifications.

The leasing process is designed to serve multiple stakeholder groups, who all utilize Maine's coastal waters for a variety of different purposes and is intended to provide all stakeholder groups with the opportunity to provide feedback on your proposal. If you have questions about applying for a lease, please contact DMR at DMRaquaculture@maine.gov or 624-6567.



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 <u>A. Corporate</u> <u>Applicant</u>. Partnerships must submit information as requested under <u>B. Partnership Applicant</u>.

A. Corporate Applicant

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

() ** J * ** "FF***		
	n:Downeast Institute for Ap	
Date of incorporation Maine	n:Dec 26, 1995	State of incorporation:
3. List the names, addre	esses, and titles of all officers:	
Name	Address	Title
attached		
Please use additional s	sheets if necessary and attach	to the application.
4. List the names and ac	ddresses of all directors/memb	ers:
Name	Address	
attached		

1 Updated 5/20/2021

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

5. Has the corporation, or any st	tockholder, director, or officer applied for an aq	uaculture lease
for Maine lands in the past?	Yes □ No	
· · · · · · · · · · · · · · · · · · ·	ease indicate who applied for the lease and the salph Smith EAST OP; Sam Chapman, SHE SQ	
	of all stockholders who own or control at least ntage of outstanding stock currently owned or c	
Name	Address	Percentage of Owned Stock
NA Nonprofit corporation		
Please use additional sheets if	necessary and attach to the application.	
7. List the names and addresses	of stockholders, directors, or officers owning a	n interest, either

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
Ralph Smith	48 Western Ave, Jonesport, ME	EAST OP	89.70
Sam Chapman	50 Bremen Rd, Waldoboro ME 04572	SHE SQ2	.57

2

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

ever been arrested, indicany marine resources or Yes No	r any officer, director, member, or share ted, convicted of, or adjudicated to be re environmental protection law, whether	esponsible for any v	
B. Partnership Applica Note: You must attach a	yes", please provide details. Int I copy of either the Certificate of Limite I neral Partnership to your application.	d Partnership or do	cumentation
1. Name of Partnership:			
2. Date of formation: _	State of partnership):	_
3. List the names, address	sses, and ownership shares of all partner	S:	
Name	Address		Ownership Shares
Please use additional sl	heets if necessary and attach to the ap	plication.	
4. Has the partnership, o past? ☐ Yes ☐ No	r any partner applied for an aquaculture	lease for Maine lan	nds in the
If you selected "gapplication or lea	yes," please indicate who applied for the ase.	e lease and the statu	s of the
in any other Maine aqua	dresses of any partner owning an interesculture leases, as well as the quantity of uted to each such person, based on their	acreage from exist	ing
Name	Address	Lease Acronym	Acreage

Dlagge use additional al	and if management and attack to the	mulication	
Please use additional si	neets if necessary and attach to the a	ppiication.	
	any partner been arrested, indicted or ation or marine resources or environment		
☐Yes ☐ No			
If you selected "y	yes", please provide details.		

Downeast Institute 2023

BOARD OF DIRECTORS

Board Chair

Lynn Alley*

Retired Science Teacher (JBHS)

Jonesport

Christopher Bartlett

Maine Sea Grant/University of Maine Cooperative Extension

Eastport, ME (Personnel Committee)

Vice Chair

Dr. Sherrie Sprangers

Science Professor at University of Maine at Machias

Machias, ME (Finance Committee)

Sam Chapman*

Retired Shellfish Specialist

Waldoboro, ME

Clerk/Treasurer

Jane Hinson*

Retired, Director of Special Programs, UMM

Machias, ME (Finance Committee)

Dr. Gayle Kraus

Marine Ecology Professor, UMM

Machias, ME

Jonathan Alley

Machias Savings Bank

Addison, ME (Finance Committee)

Wendell Bradford

AC Inc., Shellfish Dealer

Beals, ME

Dean Girdis

Open Energy Advisors

Washington, DC

Jason Alley Fisherman

Jonesport, ME

Dr. Brian Beal*

Science Professor at University of Maine at Machias

Machiasport, ME (Personnel Committee)

Ralph Smith

Moosabec Mussels

Jonesport, ME

Tom Haslett

TILT Investments

Lincoln, MA

Peter Greene

Machias Savings Bank

Addison, ME (Personnel Committee)

*Founder

Filing Fee \$20.00			File No. 19960225ND Pages 3 Fee Paid \$ 20.00
For Use By Secretary of		NONPROFIT CORPORATION	DCN 1953601200006 ARTI FILED 12/26/1995
			12, 50, 1993
File No.		STATE OF MAINE	Deptity Secretary of State
Fee Paid		ARTICLES OF INCORPORATION	" A True Copy When Attested
С. В		(CHECK ONLY IF APPLICABLE)	By Signature
Date	/ 🗆 тм	is is a Domestic Condominium Corpora	717
			Deputy Secretary of State
Pursuant to Incorporatio			orporation, adopt(s) the following Articles of
FIRST:	The name of the corpora	tion is Beals Island Region	al Shellfish Hatchery, Inc.
andonin.	The same and the leaders in	ed for all mumores name itsed up des Tisle	12 D MDCA (f , f))
SECOND:	then for the following pu		13-B, MRSA, or, if not for all such purposes,
THIRD:	resident, whose business	ed Agent and address of registered of office is identical with the registered having an office identical with such	ffice (the registered agent must be a Maine office; or a corporation, domestic or for-
	The house will be the second	rett Johnson . Club	HCR 71, Box 55
	CVE	(name)	Machias, ME 04654
	B.1.R.S.1	reet address (not P.O. Box), city, state and	d zin mode)
	PO Box 83,	Harrington, ME 04643	
		(mailing address if different from ab	ove)
FOURTH:	The number of directors they have been designate	(not less than 3) constituting the initial of or elected, is	al board of directors of the corporation, if
	The minimum number of of directors shall be	directors (not less than 3) shall be	Sixteen and the maximum number
FIFTH:	Members: ("X" one box only)	There shall be no members.	
	,	☐ There shall be one or more cla by §402 is as follows:	sses of members, and the information required
			**
			WEW
SIXTH:	(Check if this article	is to apply)	
	attempting to influence le	gislation, and the Corporation shall no	the carrying on of propaganda, or otherwise t participate in or intervene in (including the on behalf of any candidate for public office.

Filing Fee \$20.00

SEVENTH: (Check if this article is to apply. Then fill in reference number of Section 5001(c)/ ?) in first paragraph helow.)

Upon the dissolution of the Corporation or the termination of its activities, the assets of the Corporation remaining after the payment of all its liabilities shall be distributed exclusively to one or more organizations organized and operated exclusively for such purposes as shall then qualify as an exempt organization or organizations under Section 501(c)(3) of the Internal Revenue Code of 1986, as amended, and as a charitable, religious, eleemosynary, benevolent or educational corporation within the meaning of Title 13B, of the Maine Revised Statutes as amended.

No part of the net earnings of the Corporation shall inure to the benefit of any member, director, or officer of the Corporation, or any private individual (except that reasonable compensation may be paid for services rendered to or for the Corporation in carrying out one or more of its purposes), and no member, director, or officer of the Corporation, or any private individual, shall be entitled to share in the distribution of any of the corporate assets on dissolution of the Corporation.

EIGHTH: Other provisions of these articles, if any, including provisions for the regulation of the internal affairs of the corporation, and distribution of assets on dissolution or final liquidation:

"This corporation is not organized or operated for the benefit of private interest, such as the creator or his family, shareholders of the organization, other designated individuals, or persons controlled, directly or indirectly, by such private interests.

Notwithstanding any other provision of these articles, the corporation shall not carry on any other activities not permitted to be carried on (a) by a corporation exempt from Federal Income tax under section 501 (c)(3) of the Internal Revenue Code of 1954, (or the corresponding provision of any future United States Internal Revenue Law) or (b) by a corporation, contributions to which are deductible under section 170 (C) (2) of the Internal Revenue Code of 1954 (or corresponding provision of any future United States Internal Revenue Law."

Dated October 27, 1995

INCORPORATORS	ADDRESSES
1 Jane E. Henson (signature)	Street Hon To Box 28
(We support name)	MACHIAS, ME 04654
2) in issett Affirmation	(city, state and zip code) Street HCR 71 BOX 55
- Everett & Johnson Ir	(city, state and zip code)
3 WILL HORKINS (signature)	Street A FAVOR ST., FAST PORT, ME. 04-631
4) Brian + Beal	RR # 1; Box 511 March fold Manne DY 654
5 Brian Beal (type of print nant)	Street 97 Summer St.
Swan K. White	Hampolen, Me. 042444
and Mace	Street 1026 Move Pt Pt Rusuly to -0404
Dana E. (signature) Wallace Thornes I markes in	Box 747 Ellsweith, N/e 04605
James L. Markos, Jr.	(city, state and zip code)

(8) Wend W Beal

PCBOX 310 Jenesport, mã 04649

9 Lynn M. alley

P.O. Box 112 Beals, Me. 04611

10 Samuel R. Chapman

50 Bremen Rd. Waldoboro, Mc 04572

1 Dianne Tilton

PO BOX 679 Muchias, ME 04654

3 Gudy Blemp Judy B Kemp

P.O. BOX 152 MAChins, ME 04654

(3) Hashing M. Hashing

Aguaculture Center Suite 203, 141 N. Main St. Buwer, NE 04412

19 Special Wirings

DMR STA &1 AUGUSTA, ME. 04333

	Filing Fee \$5.00
CHANGE or CHAN AN Beals Is Hatchery	B MRSA §305.1 or §1212.2, the undersigned corporation executes and delivers for filing the following change(s); a resolution duly adopted by the board of directors:
FIRST:	The name and registered office of the registered agent appearing on the record in the Secretary of State's office:
	Everett Johnson, Clerk
	(name)
	HCR 71, Box 55, Machias, ME 04654 (street, city, state and zip code)
	(street, city, state and zip code)
SECOND:	The name and registered office of the successor (new) registered agent who must be a Maine resident, whose office is identical with the registered office; or a corporation, domestic or foreign, profit or nonprofit, having an office identical with such registered office:
	Jane E. Hinson, Clerk
	(name)
	HCR 70, Box 28; Outer Elm Street; Machias, ME 04654
	(physical location - street (not P.O. Box), city, state and zip code)
	(mailing address if different from above)
THURD:	(To be completed by a foreign corporation.)

A. Jurisdiction of incorporation

B. Date of authorization to carry on activities in this State

	*By _	(signature)
		(type or prim name and capacity)
DATED February 7, 1997	*By _	(signature) Same E. Hinson. Clerk

(type or print name and capacity)

^{*}This document MUST be signed by (1) the Clerk or Secretary OR (2) the President or a vice-president and the Secretary or an assistant secretary, or such other officer as the bylaws may designate as a 2nd certifying officer OR (3) if there are no such officers, then a majority of the Directors or such directors as may be designated by a majority of directors then in office OR (4) if there are no such directors, then the Members or such of them as may be designated by the members at a lawful meeting.

NONPROFIT CORPORATION

STATE OF MAINE

NONCOMMERCIAL REGISTERED AGENT STATEMENT OF APPOINTMENT or CHANGE A True Copy When Attested By Signature DOWNEHST INSTITUTE FOR APPLIED (Name of Corporation as it appears on the records of the Secretary of State) Deputy Secretary of State MARINE RESEARCH AND EDIZATION Pursuant to 5 MRSA §§105, 108, & 109 the undersigned corporation executes and delivers the following statement of appointment and/or change of address by a noncommercial registered agent. FIRST: ("X" all boxes that apply) 冈 A. change of address B. change of noncommercial registered agent and address C. change of noncommercial registered agent change in name of current noncommercial registered agent D. SECOND: The name and address of the registered agent appearing on the record in the Secretary of State's office: TANE E. HINSEN

(name of current registered agent) (physical street address, city, state and zip code) (mailing address if different from above) (For foreign nonprofit corporations only) THIRD: Jurisdiction of Organization: Date authorized to transact business in the State of Maine:

Filing Fee \$15.00 for each nonprofit corporation listed

2090692700020 ADDR

File No. 19960225ND Pages 2

Fee Paid \$ 15

---FILED----03/05/2009

DCN

CERTIFICATE OF CORRECTION
State of Maine
1996 Annual Report
Beals Island Regional Shellfish Hatchery
DLN #1960168361713
Charter #19960225ND

- 1. Under "Name of Corporation, Name of Registered Agent, Address on File," please: (a) strike "Harrington", and insert in lieu thereof "Beals"; (b) strike "04643", and insert in lieu thereof "04611".
- 2. Under "Foreign Corporations Only," please: strike "HCR 71, Box 55, Machias, ME 04654".

Signed: Jane Hinson, Secretary

Beals Island Regional Shellfish Hatchery

Date: Oprie 4, 1996

STATE OF MAINE Office of the Secretary of State Bureau of Corporations, Elections and Commissions State House Station #101, Augusta, Maine 04333

DIVISION OF CORPORATIONS

02/11/1997

BEALS ISLAND REGIONAL SHELLFISH HATCHERY P.O. BOX 83

BEALS

ME 04611

PROOF OF FILING WR DCN: 1970411600019

Enclosed please find copies of documents recently placed on file with our office. Each copy has been attested as a true copy of the original and serves as your evidence of filing. We recommend that you retain these permanently with your records.

Charter #: Legal Name:

19960225ND BEALS ISLAND REGIONAL SHELLFISH HATCHERY, INC.

CHANGE OF AGENT AND REGISTERED OFFICE

DCN: 1970411600020

2 Page(s)

CHANGE IN PURPOSE DCN: 1970411600021

2 Page(s)

Total

4 Page(s)

(3) Chary in name

(4) Chang in member of Buestono

15) agent address change



File No	o. 19960225ND Pages 2
	aid \$ 10.00
ICH	1970411600021 PURP
	FILEO
	02/10/1997
	Deputy Secretary of State
A Tr	ue Copy When Attested By Signature
	Hary Cooper

Pursuant to 13-B MRSA §§802 and 803, the undersigned corporation executes and delivers for filing the following Articles of Amendment:

FIRST:

Describe <u>NATURE OF CHANGE</u> (i.e. change in name of corporation, purpose, number of directors, adding or deleting section or revision of section, etc.) as well as <u>TEXT</u> of amendment. Attach additional pages as needed.

0	poses of this c		e exclusively	
	e, educational			
100000000	e meaning of Se			
United Sta	ates Internal R	evenue Code o	f 1954 as the	
same may 1	be amended, and	in particula	r to develop and	
enhance Ma	aine's soft-she	11 clam and o	ther shellfish	
resources	through applie	d scientific	research, technolo	gy
transfer,	public educati	on and aquacu	lture.	
			040	
ement a	nilorded in	ariginal	with Jegs	
85 try 5	501(C)(3), ag	aslication	with deep	
- N.				

SECOND:	("X" one b	ox only) T	he amendment	was adopted	on (date)	January	24, 1	997 as follo	ws:
				at which a que were entitled		present and the	amendme	nt received at l	east a majority
						By the members the Articles of			he amendment
	□ B ₃	the written	consent of al	l members ent	itled to vo	te with respect	thereto.		
	ME (II	no member	s, or none en	titled to vote th	nereon.) I	By majority vo	e of the t	oard of direct	ors.
THIRD:	The address	of the regis	tered office of	the corporation	n in the Sta	te of Maine is			
	HCR 70,	Box 21	3, Outer	Elm Stre	et, M	achias, M	E 04	654	
		(street, city, state and zip code)							
DATEDF	ebruary 7	, 1997		*By	Ja	In E	1/c	uson	
in the second			01-01-01-010000	_ (/	e E. Hins	100		
MU	ST BE COMP		R VOTE		- Unite			and capacity)	
I certify th	at I have custo	MBERS dy of the m	inutes showing	g *Bv					
	e above action			ъ,			(signamre)		
Jan	ature of clerk, sec	kuson	we constant)	9		(type or	print name i	and capacity)	
1 / (30%)	MILLIO OF CIETA, SOC	semily of mast.	Spercery 1						

^{*}This document MUST be signed by (1) the Clerk or Secretary OR (2) the President or a vice-president and the Secretary or an assistant secretary, or such other officer as the bylaws may designate as a 2nd certifying officer OR (3) if there are no such officers, then a majority of the Directors or such directors as may be designated by a majority of directors then in office OR (4) if there are no such directors, then the Members or such of them as may be designated by the members at a lawful meeting.

DOMESTIC NONPROFIT CORPORATION

STATE OF MAINE

ARTICLES OF AMENDMENT

Beals Island Regional Shellfish Hatchery

(Name of Corporation)

Inc.

Amendment:

51

Pursuant to 13-B MRSA §§802 and 803, the undersigned corporation executes and delivers for filing the following Articles of

FIRST: Describe NATURE OF CHANGE (i.e. change in name of corporation, purpose, number of directors, adding or deleting section or revision of section, etc.) as well as TEXT of amendment. Attach additional pages as needed. Change in name of corporation from Beals Island Regional Shellfish Hatchery, Inc. to Downeast Institute for Applied Marine Research and Education, Inc.

SECOND:	("X" one box only) The amendment was ad	opted on (date) JULY 21, 2000 as follows:			
	By the members at a meeting at who of the votes which members were e	nich a quorum was present and the amendment received at least a majority entitled to cast.			
		a majority vote.) By the members at a meeting at which the amendment votes required by the Articles of Incorporation.			
	☐ By the written consent of all memb	ers entitled to vote with respect thereto.			
	☐ (If no members, or none entitled to	vote thereon.) By majority vote of the board of directors.			
THIRD:	The address of the registered office of the corporation in the State of Maine is Perio Point, Beals Island, Maine 04611				
		(street, city, state and zip code)			
DATED	TUNE 22, 2001	*By lane E. Horson (signature)			
MU	UST BE COMPLETED FOR VOTE OF MEMBERS	(type or print name and capacity) BOARD OF DIRECTORS *By BEALS ISLAND REGIONAL SHELLFISH HATCHER!			
	that I have custody of the minutes showing the above action by the members.	*By BEALS ISLAND REGIONAL SHELLFISH HATCHER!			
		(type or print name and capacity)			
(SIZ	nature of clerk, secretary or asst. secretary)				

^{*}This document MUST be signed by

⁽¹⁾ the Clerk or Secretary OR

⁽²⁾ the President or a vice-pres. together with the Secretary or an ass't. sec., or a 2nd certifying officer OR

⁽³⁾ if no such officers, then a majority of the Directors OR

⁽⁴⁾ if no such directors, then the Members.

Minimum Filing Fee \$10 80 An additional sta Et

DOMESTIC NONPROFIT CORPORATION

STATE OF MAINE

ARTICLES OF AMENDMENT

7	001.1	-04-	1111		FOR
100	PIVNE	-7121	INSII	IVIE	FUR
PPLI	ED M.	ARINE	RESEA	RCH \$	ED WATIO
		(Nar	ne of Corpora	etion)	

FIL	2081261400008 CHNG
04/2	2/2008
	-1
	0 1 07
	Deputy Secretary of State
	Deputy Sectionary of State
7-20	A True Copy When Attested By Signature
3-08	A True Copy When Attested By Signature
	A True Copy When Attested By Signature

FIRST:	("X" one box only.)					
SECOND:	Describe NATURE OF CHANGE (i.e. change in name of corporation, purpose, number of directors, adding of deleting section or revision of section, etc.) as well as TEXT of amendment. Attach additional pages as needed.					
	CHANGE IN NUMBER OF DIRECTORS					
	FROM: NOT LESS THAN SIXTEEN AND NOT MORE THAN					
	TWENTY					
	TO: NOT LESS THAN EIGHT AND NOT MURE THAN					
	SIXTEEN					
	and the state of t					

THIRD:	("X" o	ne box only.) The amendment was a	adopted on (date) MARCH 6, 2008 as follows:			
		of the votes which members were entitled to cast. (If the Articles require more than a majority vote.) By the members at a meeting at which the amendment received at least the percentage of votes required by the Articles of Incorporation.				
		[If no members, or none entitled to vote thereon.) By majority vote of the board of directors.				
FOURTH:	The address of the registered office of the corporation in the State of Maine is P.O. Box 83					
		BEALS, MAIN.	E 04611			
DATED MA	Arzch	28, 7008	*By Que E. Huson (signature) JANE E. HINSON, CLERK			
		,	(signature)			
MU		OMPLETED FOR VOTE MEMBERS	(type or print name and capacity)			
I certify that I have custody of the minutes showing the above action by the members.			*By(signature)			
(signature of clerk, secretary or asst. secretary)			(type or print name and capacity)			

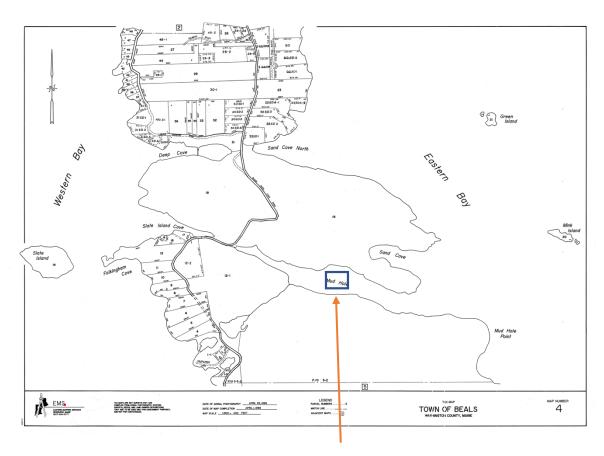
Please remit your payment made payable to the Maine Secretary of State.

SUBMIT COMPLETED FORMS TO: CORPORATE EXAMINING SECTION, SECRETARY OF STATE,
101 STATE HOUSE STATION, AUGUSTA, ME 04333-0101
FORM NO. MNPCA-9 (2 of 2) Rev. 9/16/2005 TEL. (207) 624-7752

^{*}This document MUST be signed by any duly authorized officer. (13-B MRSA §104.1.B)

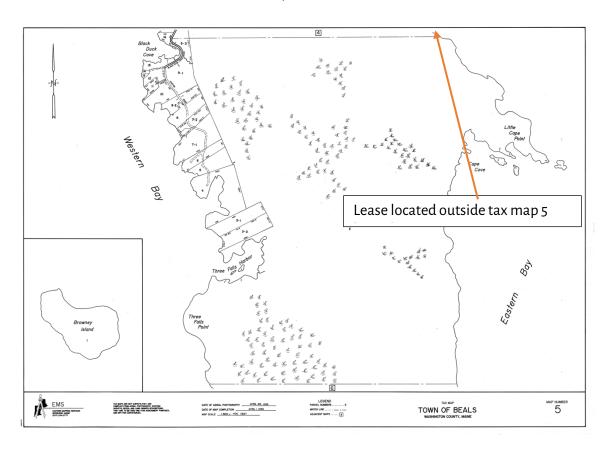
14. Riparian Owners and Site Access

Tax Map: Town of Beals Map #4



Proposed lease

Tax Map: Town of Beals Map #5



Brian Fairfield Beal

University of Maine at Machias 9 O'Brien Avenue Machias, Maine 04654

Tel. 207-255-1314 FAX 207-255-1390 e-mail bbeal@maine.edu

Date and Place of Birth: 19 November 1957; Machias, Maine

Formal Education: 1979: B.S. in Biology; University of Maine at Machias

1983: M.S. in Marine Sciences; University of North Carolina, Chapel Hill

1994: Ph.D. in Marine Bio-Resources; University of Maine, Orono

Pertinent Experience:

Marine Project Assistant; Univ. Maine Cooperative Extension Service, Machias, Maine 1984-1985:

1985-1986: Environmental Education Coordinator; University of Maine at Machias 1986-1994: Environmental Resources Coordinator, University of Maine at Machias 1989-1997: Assistant Professor of Marine Ecology; University of Maine at Machias Associate Professor of Marine Ecology; University of Maine at Machias 1998-2002: Graduate Faculty Member, University of Maine (School of Marine Science)
Cooperating Faculty member for the School for Marine Science at the Univ. of Maine 1990-present:

1996-present:

2002-present: Professor of Marine Ecology; University of Maine at Machias

2011-present: Director, Marine Science Field Station, University of Maine at Machias

Fellowships/Scholarships/Other Awards:

Switzer Foundation Environmental Fellow (1992-1993)

Teacher of the Year. University of Maine at Machias (2000)

Fulbright Scholarship (2000-2001), National University of Ireland, Galway (lecture/research)

Distinguished Alumnus, University of Maine at Machias (2001)

Trustee Professor, University of Maine at Machias (AY 2004-2005)

Bourne-Chew Award, National Shellfisheries Association (2015)

Maine Magazine's "50 Mainers to Admire and Inspire" (2019)

Courses taught: Introduction to Environmental Studies; Marine Biology; Marine Ecology; Population

and Community Ecology; Algebra I; Algebra II; Pre-Calculus; Applied Statistics; Biostatistics; Introduction to the Marine Environment; Oceanography; Introduction to Mariculture; Introduction to the Local Marine Fauna and Flora of Downeast Maine

Research Interests: Shellfish ecology; population biology; resource management; mariculture

Professional Organizations: National Shellfisheries Association

Local Organizations: Maine Aquaculture Innovation Center (Chairman of Board of Directors);

Downeast Institute for Applied Marine Research & Education (Director. of Research); Cobscook Bay Resource Center (Member, Board of Directors)

Maine Department of Environmental Protection, Clean-up and Response Review Member:

Board; Scientific and Technical Subcommittee, Maine Climate Council.

Selected Publications:

Beal, B.F. 2002. Adding value to live, commercial size soft-shell clams (*Mya arenaria* L.) in Maine, USA: Results from repeated, small-scale, field impoundment trials. Aquaculture 210:119-135.

Beal, B.F. 2005. Soft-shell clam, *Mya arenaria*, mariculture in Maine, USA: opportunities and challenges. Bulletin of the Aquaculture Association of Canada. Special Publication No. 9:41-44.

Beal, B.F. 2006. Relative importance of predation and intraspecific competition in regulating growth and survival of juveniles of the soft-shell clam, Mya arenaria L., at several spatial scales. J. Exp. Mar. Biol. Ecol. 336:1-17.

- Beal, B.F. 2006. Biotic and abiotic factors influencing growth and survival of wild and cultured individuals of the soft-shell clam (*Mya arenaria* L.) in eastern Maine. J. Shellfish Res. 25:461-474.
- Beal, B.F., Bayer, R.C., Kraus, M.G., Chapman, S.R. 1999. A unique shell marker of juvenile, hatchery-reared individuals of the soft-shell clam, *Mya arenaria* L. Fish. Bull. 97:380-386.
- Beal, B.F., Coffin, C.R., Randall, S.F., Goodenow, C.A., Jr., Pepperman, K.E., Ellis B.W. 2020. Interactive effects of shell hash and predator exclusion of 0-year class recruits of two infaunal intertidal bivalve species in Maine, USA. J. Exp. Mar. Biol. Ecol. 530-53. https://doi.org/10.1016/j.jembe.2020.151441.
- Beal, B.F., Coffin, C.R., Randall, S.F., Goodenow, C.A., Jr., Pepperman, K.E., Ellis, B.W., Jourdet, C.B., Protopopescu, G.C. 2018. Spatial variability in recruitment of an infaunal bivalve: experimental effects of predator exclusion on the softshell clam (*Mya arenaria* L.) along three tidal estuaries in southern Maine, USA. J. Shellfish Res. 37:1-27.
- Beal, B.F., Kraus, M.G. 2002. Interactive effects of initial size, stocking density, and type of predator deterrent netting on survival and growth of cultured juveniles of the soft-shell clam, *Mya arenaria* L. in eastern Maine. Aquaculture 208:81-111.
- Beal, B.F., Lithgow, C., Shaw, D., Renshaw, S., Ouellette, D. 1995. Overwintering hatchery-reared individuals of the soft-shell clam, *Mya arenaria* L.: a field test of site, clam size, and intraspecific density. Aquaculture 130:145-158.
- Beal, B.F., Randall, S.F., Pepperman, K.E. 2020. Comparative field trials to examine the efficacy of a traditional management tool brushing to enhance local densities of 0-y class recruits in the soft-shell clam *Mya arenaria* L. fishery in Maine, USA. J. Shellfish Res. 39(3):1-15.
- Beal, B.F., Mercer, J.P., O'Conghaile, A. 2002. Field-based nurseries for hatchery-reared postlarvae of the European lobster, *Homarus gammarus* (L.): results of a 10-month, manipulative field experiment on the Irish west coast and implications for stock enhancement efforts. Aquaculture 210:137-157.
- Beal, B.F., Meredith, S.D., Jourdet, C.B., Pepperman, K.E. 2016. Diet of an underappreciated benthic intertidal fish, *Cryptacanthodes maculatus* (Cryptacanthodidae), in eastern Maine, USA. AIMS Environ. Sci. 3:488-508. doi: 10.3934/environsci.2016.3.488.
- Beal, B.F., Nault, D-M, Annis, H., Thayer, P., Leighton, H., Ellis, B. 2016. Comparative, large-scale field trials along the Maine coast to assess management options to enhance populations of the commercially-important soft-shell clam, *Mya arenaria* L. J. Shellfish Res. 35(4):1-17.
- Beal, B.F., Parker, M.R., Vencile, K.W. 2001. Seasonal effects of intraspecific density and predator exclusion along a shore-level gradient on survival and growth of juveniles of the soft-shell clam, *Mya arenaria* L., in Maine, USA. J. Exp. Mar. Biol. Ecol. 264:133-169.
- Tan, E.B.P., Beal, B.F. 2015. Interactions between invasive European green crab, *Carcinus maenas* (L.), and juveniles of the soft-shell clam, *Mya arenaria* L., in eastern Maine, USA. J. Exp. Mar. Biol. Ecol. 462:62-73.
- Vadas, R.L., Beal, B.F., Dowling, T. & Fegley, J. 1999. Experimental field tests of natural algal diets on gonad index and roe quality in *Strongylocentrotus droebachiensis*: A case for rapid summer production. Aquaculture 182:115-135.
- Vadas, R.L., Beal, B.F., Dudgeon, S.R., Wright, W.A. 2015. Spatial and temporal variability of spawning in the green sea urchin *Strongylocentrotus droebachiensis* along the coast of Maine. J. Shellfish Res. 34:1097-1128.

JEFF ROBINSON

Objective

To obtain a position that will enable me to use my organizational skills, past work and management experience.

Experience

2016-Present Downeast Institute for Applied Marine Science and Education

Facilities Manager

- Integrally involved with the daily operation of a shellfish hatchery, marine science laboratory, public education center, and on-campus housing.
- Responsible for upkeep and maintenance of all systems, facilities and grounds on the Downeast Institute's campus.
- Ensure a safe working environment for staff and visitors.
- Oversee contractors.
- Operate equipment. i.e. boats, small machinery.
- Fabrication of custom materials for marine research projects.
- Fabrication of various systems used in on-shore aquaculture

2005-2016 Cooke Aquaculture US Inc. Eastport, ME

IMTA Mussel Project 2011-2016

- Integrate rope grown Blue Mussel cultivation with Atlantic Salmon farms in Maine.
- Work closely with people within the company and within Sea
 Grant/University of Maine to establish new/different methods that will aide in making mussel cultivation a viable and economic industry.

Marine Site Manager 2005-2011

• Efficiently & economically operate/manage a marine farm for Atlantic Salmon cultivation.

- Train & manage employees on the farm & support personnel to facilitate daily tasks/projects safely and efficiently.
- Maintain integrity of farms containment systems and equipment.
- Operate vessels and large equipment.
- Experience with computers and Excel, Microsoft Word etc.
- Drug/pesticide applicator.
- First Aide/CPR training.
- Confined Space training.
- Oil spill training.
- Fabrication metal, wood, fiberglass.

	• Fabrication - metal, wood, moergiass.			
1993-2005	Heritage Salmon	Eastport, Me		
	Marine Site Manager	1999-2005		
	Marine Site Assistant Manager	1995-1999		
	Marine Technician	1993-1995		
1992-1993	Hall Security	Brewer, Me		
	Security Guard			
1992- 1993	Mahar Bros Construction	Pembroke, Me		
	Equipment Operator/Laborer			
1990-2005	Part Time Carpenter and Carpenter Assistant			
1998-2004	Supervising experience with Balsam Christmas Tree farm work			
	harvesting and retail.			
Education				
1991-1992	University of Maine	Orono, Me		
1987-1991	Washington Academy	East Machias, Me		
Interests				

Family activities, most outdoor activities. Woodworking, carpentry

Kyle Pepperman 67 Birch Ridge Rd Marshfield, Me 04654 Mobile: (570) 337-8873

Kyle.pepperman@downeastinstitute.org

Education:

University of Maine at Machias

B.S. in Science September 2004-May 2009

Major: Marine Biology; Minor: Chemistry and Biology

Employment History

Downeast Institute for Applied Marine Research and Education, Beals, Maine

Associate Director of Technology Transfer March 2022-present

Production and Hatchery Manager December 2020-March 2022

Shellfish Production and Research Assistant October 2010 – December 2020

Research Intern *2006* – *2010*

Research duties, hatchery operations management, and educational outreach to grade schools, summer camps, college students and community members

University of Maine at Machias, Machias, Maine

Field assistant September 2008- September 2009

Assisted Dr. Brian Beal by collecting of benthic core samples from soft bottom intertidal sites for Maine Oil Spill Advisory Committee, identified and measured infaunal invertebrates collected from mud samples Laboratory Assistant *September 2006-December 2006*

Assisted Dr. Ruth Carmichael by preparing samples of hard-shell clam shell for acidification, extracting proteins from clam shell by acidification and filtration, preparing reagents used in acidification process, and preparing materials needed for Oceanography lab taught by Dr. Carmichael

Experience Summary

Fourteen years' experience assisting with and participating is marine research projects, both in the laboratory and in the field, working with Dr. Brian Beal and Dr. Ruth Carmichael.

Research Experience:

- Raising marine species for the purpose of supporting scientific study and applied research: soft-shell

scallops (*Placopecten magellanicus*), red footed arctic surf clams (*Mactromeris polynyma*), European oysters (*Ostrea edulis*) juveniles and larvae, juvenile Atlantic lobsters (*Homarus americanus*), Atlantic razor clam (*Ensis leei*) and phytoplankton, used as forage for the shellfish,

- Participated in multiple scientific studies
 - 2017 NOAA Sea Grant funded research on commercialization of hatchery-reared blue mussel (Mytilus edulis) seed for use by mussel farmers in Maine
 - 2015 NOAA Saltonstall Kennedy funded research expanding opportunities for blue and "gold" mussel (*Mytilus edulis*) farming in New England from hatchery to grow-out
 - 2013 NSF funded applied research on the culture of arctic surf clams (*Mactromeris polynyma*) and blue mussels (*Mytilus edulis*) in eastern Maine
 - 2009/2010 USDA-SBIR funded research evaluating subtidal and intertidal grow-out methods for cultured hard clams (*Mercenaria mercenaria*) in eastern Maine
 - 2009 NOAA-NMFS funded research to examine methods to enhance local (costal) stocks using wild and/or cultured juveniles of deep sea scallops (*Placopecten magellanicus*)
 - o 2006 Maine Technology Institute funded research examining the hatchery, nursery and overwintering phases of the hard clam (*Mercenaria mercenaria*)
 - 2006 Maine Department of Marine Resources funded research studying regional variations in the growth of American lobsters (*Homarus americanus*)
- Participated in published research

Brian F. Beal, Chad R. Coffin, Sara F. Randall, Clint A. Goodenow Jr., Kyle E. Pepperman, Bennett W. Ellis, Cody B. Jourdet and George C. Protopopescu

Spatial Variability in Recruitment of an Infaunal Bivalve: Experimental Effects of Predator Exclusion on the Softshell Clam (*Mya arenaria* L.) along Three Tidal Estuaries in Southern Maine, USA. Journal of Shellfish Research, 37, 1-27.

Protopopescu, G.C and Beal, B.F

2015. Settlement response to various rope substrates in blue mussels (*Mytilus edulis* Linnaeus) in a hatchery setting. Journal of Shellfish Research 34, 383-391

Beal, B.F. and G.C. Protopopescu

2012. Ocean-based nurseries for cultured lobster (*Homarus americanus* Milne Edwards) postlarvae: field experiments off the coast of eastern Maine to examine effects of flow and container size on growth and survival. Journal of Shellfish Research 31, 177-193.

Breanna Salter

Machias, ME 04654

bsalter@downeastinstitute.org / (860) 861-3012

EDUCATION

University of Maine

Orono, ME

• Bachelor of Science Sept 2015-May 2019

Ecology and Environmental Sciences

• Concentration: Marine Ecosystems Ecology

EXPERIENCE Beals, ME

Downeast Institute

Production and Research Hatchery Manager

Jan 2023-Present

- Managing microalgae stock and mass cultures
- Participating in project planning and following research work plans
- Developing and implementing plans to rear larval and juvenile bivalves and other marine invertebrates
- Supervising research hatchery assistants

Production Assistant

Oct 2019-Jan 2023

- Performing sanitation and preparation of shellfish production equipment and systems
- Training new employees and interns
- Spawning and rearing shellfish and assisting with field-based experiments
- Maintaining microalgae stock and mass cultures

University of Maine

Orono, ME

Student Researcher

Oct 2018-Sept 2019

- Tracked mussel heart rate in response to temperature change
- Collected, organized, and analyzed data

Maine Learning Assistant-Biology of Marine Organisms

Jan 2019-May 2019

- Facilitated in-class discussions
- Co-lead review sessions
- Assisted professor and TAs in preparation of lectures

Dodson Boatyard

Stonington, CT

Launch Operator

May 2017-Oct 2019

- Operated launch boat to transport customers from their moored boats
- Managed and organized mooring field

Dock Hand

May 2016-Aug 2016

- Directed and secured vessels to dock
- Operated fuel pumps
- Performed general maintenance of facility (cleaning and organizing)

Mystic Aquarium

Volunteer Exhibit Host

Mystic, CT July 2019-Oct 2019

- Provided guests with information about exhibits
- Enforced exhibit rules to ensure guest and animal safety

SKILLS

- Proficient in Microsoft Word, Excel, Chart5, and ArcGIS
- Microscopy

Tessa G. Houston

Jonesport, ME • (207) 939-3064 • thouston2017@gmail.com

Education

COLBY COLLEGE, Waterville, ME

GPA 3.69

Bachelor of Arts in Environmental Science, 2021

Bachelor of Arts in History, 2021

Applicable Courses: Aquatic Ecology, Marine Conservation & Policy, Earth Systems Chemistry **DIS COPENHAGEN,** Copenhagen, Denmark

Studied Polar Biology and Biology of Marine Mammals, 2019

Research Experience

Research Assistant, Downeast Institute, Beals, ME

November 2022-Present

- •Coordinate data collection for research projects in the hatchery and field
- •Communicate with the Director of Research and hatchery staff to conduct research
- •Research projects include developing best practices for spawning Atlantic scallops, producing a population of Eastern oysters that thrive in colder temperatures, and exploring the reproductive cycle of soft-shell clams

AmeriCorps Environmental Steward, Maine Conservation Corps January-November 2022 Rachel Carson National Wildlife Refuge, Wells, ME

- •Performed surveys for evidence of New England cottontails across Southern Maine using ArcGIS Field Maps
- •Trained interns to survey and manage piping plover and least tern habitat
- •Coordinated aquaculture surveys both independently and in a leadership role
- •Supervised coworkers and volunteers in invasive plant management
- •Developed a trail guide and activity book for visiting fourth and fifth graders
- •Directed a Boy Scout in her project surveying macroinvertebrates in streams within Rachel Carson NWR in collaboration with Maine Audubon's Stream Explorers project
- •Organized National Public Lands Day volunteer planting events
- *Interned for Rachel Carson National Wildlife Refuge Summer 2020 and assisted in invasive plant management and piping plover, least tern, and saltmarsh sparrow management

Intertidal Ecology Technician, Schoodic Institute, Winter Harbor, ME June-November 2021

- •Conducted research on soft-sediment biodiversity and the relationship between marine worms and clam abundance and presented research findings in a poster presentation (<u>link</u>) and blog post (<u>link</u>)
- •Assisted in research on seaweed biomass mapping
- •Co-led volunteer groups in field and labwork
- •Collaborated on a mark and recapture project to track the movement of jonah crabs
- •Supervised University of Maine students in multi-day soft-sediment research projects
- •Conducted water sampling projects including SPATT and ocean acidification sampling

Research Intern, Schoodic Institute, Remote

January 2021

•Conducted research with the guidance of Hannah Webber on how the frequency of foggy days has changed through time in the Acadia Region

•Authored a blog post of research results for Schoodic Institute titled "A brief investigation into Acadia's foggy history" (link)

Researcher, Environmental Science Capstone, Waterville, ME

Fall 2020

- •Conducted a research project in collaboration with classmates on the distribution of Atlantic sturgeon in the Kennebec River, Maine and compiled research into a full scientific paper
- •Collaborated with Dr. Peter Countway of Bigelow Laboratory to confirm, using environmental DNA techniques, the effectiveness of a newly developed Atlantic sturgeon primer in detecting this species in both laboratory and environmental samples

Research Intern, Mook Sea Farm, Walpole, ME

Summer 2019

- •Conducted research with Dr. Meredith White on the effect of coastal acidification on calcification rates and gene expression of juvenile eastern oysters
- •Maintained Mook Sea Farm's seawater monitoring system
- •Assisted in building an experimental upwelling system
- •Monitored oyster health and survival rate throughout the experiment
- •Presented findings at the SEA Fellows Symposium

Research Assistant, Assistant Professor Loren McClenachan, Waterville, ME **2018 - 2021** Conducted research on a variety of projects integrating marine science and history, including:

- •Assisted in research for scientific papers on the views of Maine lobster industry members vs members of the local scientific community on lobster population trends
- •Researched the population trends and methods for determining these trends of Pacific and Atlantic gray whales
- •Collaborated with LookBermuda in the creation of an online database consisting of deepsea fish data from the 1920s and 1930s
- •Discovered references to the pre-1769 landscape and ecology of San Francisco using online newspaper and photo databases to assist The San Francisco Estuary Institute
- •Compared historical photos, from historical society archives, of locations on the Maine Coast to current photographs and analyzed the change in rockweed abundance

Technical Skills

- •Proficient experience with Excel
- •Proficient experience with R and PAST
- •Experienced with ArcMap, ArcPro, ArcGIS Online, and Survey123 Connect
- •Wilderness First Aid (DOE: April 2024), CPR and AED (DOE: April 2024) certified

Work & Volunteer Experience

Mentor, Colby Cares about Kids, Waterville, ME

Fall 2017-Spring 2021

- •Mentored a local elementary school student
- •Committed to weekly interactions and special events with mentee

Sailing Instructor and Volunteer, Southport Yacht Club, Southport, ME

2010-2018

- •Taught sailing, navigation, seamanship, and racing skills to children ages 7 to 13
- •Received the Summer 2018 Instructor of the Year award



Experienced people. Exceptional service.

April 21st, 2023

Down East Institute for Applied Marine Research and Education, Inc. PO Box 83 Beals, ME 04611-0083

To whom it may concern,

This letter is to inform that Down East Institute for Applied Marine Research and Education, Inc. has an account in good standing with Machias Savings Bank.

If there is any way that I can be of further assistance please do not hesitate to call me directly at 255-9226.

Regards,

Sean R. Daye Vice President

Business Banking

SRD/bdd

