

## Public Notice – Administrative Application Posted

These documents have been submitted with respect to an administrative aquaculture licence / lease application. The information in these documents is provided as part of the routine disclosure of information by the Department of Fisheries and Aquaculture (the “Department”). Some information may be redacted as business confidential information or personal information.

These documents were provided to the Department by the applicant (with the exception of the attached Schedule “A” which was generated by the Department). The Department is not responsible for the content of these documents, including, but not limited to, the accuracy, reliability, or currency of the information contained within.

<b>Applicant:</b> Connor Greene	<b>Type of Application:</b> New Marine Licence and Lease (ADA)
<b>Application File Number:</b> AQ#1478	<b>Species:</b> American oyster, Sugar kelp
<b>Location:</b> Argyle Sound, Yarmouth County	<b>Method of Cultivation:</b> Suspended
<b>Application Received On:</b> March 6, 2025	

To learn more about the aquaculture lease and license application process, please visit

<https://novascotia.ca/fish/aquaculture/licensing-leasing/Aqua-Licensing-and-Leasing-Overview.pdf>

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# Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA

## Instructions:

You **MUST** complete ALL fields and sections of this form, unless stated otherwise. Incomplete proposals will not be considered by the Aquaculture Administrator (the "Administrator") when selecting a proponent. The Nova Scotia Department of Fisheries and Aquaculture (the "Department") will NOT contact you should your proposal be received incomplete. The criteria under which your proposal will be assessed and rated is included at the end of this form, which you can use as an aid when writing your proposal. Although a total score is provided following assessment, it is important to note that the proposal with the highest score is not by default the successful proponent; the Administrator reserves the right to the final decision following the call for proposals.

<b>Site Number - AQ#</b>	8046
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Section 1: Proponent Information	
<b>Proponent Name:</b>	Connor Greene
<b>Name of Authorized Representative:</b> (if applicable)	
<b>Phone Number (work):</b>	902-740-7597
<b>Phone Number (cell) (optional):</b>	
<b>Fax Number (optional)</b>	
<b>Email Address:</b>	cegreene@hotmail.ca
<b>Mailing Address:</b>	3226 Highway 3, Lower Argyle,
<b>Civic Address:</b> (if different than mailing address above)	Same as above <i>The Civic address in Nova Scotia where your daily records will be kept with respect to the Aquaculture operation</i>
<b>Additional Authorized Contact(s)</b> (include name, phone and email): (optional)	

Section 2: Company Information (if applicable)	
Please attach a copy of an up-to-date <u>Shareholder's Register</u> from the corporate Minute Book of the company setting out (1) the names of each shareholder and (2) the number of shares held by each.	
<b>Registry of Joint Stocks Number:</b>	Proof of compliance with the Registry of Joint Stock Companies is required. Information is available on the RJS website at <a href="http://www.gov.ns.ca/snsmr/rjsc">http://www.gov.ns.ca/snsmr/rjsc</a>
<b>Revenue Canada Business Number:</b>	Business Number from Canada Revenue Agency. The toll-free telephone number for CRA is 1-800-959-5525 (press * to speak to a representative about obtaining a CRA Business Number).

Section 3: Proposed Production Plan Summary				
Notes: 1. Refer to the call for proposals to determine what species will be considered by the Department. At this time, only suspended cultivation methods are being considered. 2. If you require additional rows, include the information into Section 5 (Production Plan Details) of your Proposed Development Plan.				
Species Name	Expected Annual Harvest (in kg or # of units, or pieces)	Expected grow-out period (in years)	Maximum biomass on site (in kg or # of units)	# of years it will take to reach maximum production
Oysters (C. Vi	200,000 pcs	3 Years	0,000 p	5-8 years
Sugar Kelp	3,600 kg	6 months	3,600 kg	First year
Please see word document				

<b>Proposed Development Plan (Sections 4 to 10)</b>
<i>If you need additional space to record information, refer to and include it as an attachment</i>

Section 4: Production Plan Details
<p><b>Provide a description of the infrastructure that would be in place to carry out your proposal. This includes but is not limited to: The type of gear to be used, the anticipated number and capacity of cages/bags/lines to be used over time. Dimensions and approximate number of anchors to be used, the source of seed stock and/or how it will be collected and any additional information to accompany Section 3 above. In addition, review the Site Report details for any unique mitigative measures to be considered and address them in this section. This proposal is understood to be based upon the information available at the time of the submission. In future years, the actual amount of gear used, seed stocked and other production values may be higher or lower than the projections and will be determined by operational performance outcomes experienced at the site, including, but not limited to, environmental monitoring and farm operations.</b></p>
<p><i>In evaluating this section, the Department will review information such as: the technical feasibility of the proposed production scale and equipment used with the requested area.</i></p>
<p>See attached word document for all sections (3 through 10).</p>

Section 5: Benefits to the Local Community and the Province
<p><b>Provide a description of how your proposal would benefit the local community and the Province of Nova Scotia. <i>For example, anticipated direct local jobs created, use of local suppliers, processors, seed stock, potential secondary industries, impact to other business development in the community and Province.</i></b></p> <p><i>In evaluating this section, the Department will review information such as: the proponent's primary place of residence, the number of full-time, part-time and seasonal employees directly related to the proposal, sources of labor, types of goods and services, predicted volumes of goods and services, hatchery or seed source, location of processing of product.</i></p>

<b>Section 6: Past and Present Aquaculture Operations in the Province</b>	
<b>In the table below, list all aquaculture sites with licences that are presently or have been previously issued to you by the Province of Nova Scotia. For present aquaculture sites, provide a summary of your current operation including the rationale for any sites currently underutilized. For past aquaculture sites, explain why you are no longer operating the site (i.e. what happened to the aquaculture site).</b>	
<i>In evaluating this section, the Department will be reviewing the production and operational history of the aquaculture sites with licences currently and previously issued to the proponent (e.g. for the purposes of site utilization) and the compliance history of the proponent with respect to those sites.</i>	
Check this box if you have no past or present aquaculture operations in the Province	<input checked="checked" type="checkbox"/>

Aquaculture Site Number (AQ#)	Past or Presently Issued Licence? (Check one)	If Past: Why you are no longer operating the site / what happened to the site If Present: Summary of your current operation / rationale for underutilized sites
	<input type="checkbox"/> PAST	
	<input type="checkbox"/> PRESENT	
	<input type="checkbox"/> PAST	
	<input type="checkbox"/> PRESENT	
	<input type="checkbox"/> PAST	
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	<input type="checkbox"/> PAST	
	<input type="checkbox"/> PRESENT	
	<input type="checkbox"/> PAST	
	<input type="checkbox"/> PRESENT	

<b>Section 7: Ability to Execute the Proposed Activities</b>
<b>Provide a description of your relevant knowledge and experience. This can include education, business experience, aquaculture experience, previous aquaculture compliance history, previous experience in community engagement, proposed management team (if known), other relevant information to demonstrate the technical and business skills available to execute the proposed development.</b>
<i>In evaluating this section, the Department will review information such as: the relevance of experience to the proposed aquaculture development, years of relevant experience and past operational success.</i>

Section 8: Market Plan
<p><b>Provide a description of your basic market plan. For example: Product forms, anticipated price(s), target market, distribution of product and marketing/promotion of product.</b></p> <p><i>In evaluating this section, the Department will review information such as: Clear plans to sell, promote and distribute the product. Feasibility of the market plan. Benefits to the local economy.</i></p>



### Section 9: Financial Plan

**Provide a description of your financial ability to carry out the proposed activities. Include a detailed description of your initial start-up costs and how you plan to fund these costs until you are reporting income, providing documented evidence where possible. Provide or attach a detailed breakdown of your anticipated annual revenue and expenses starting from the year of start-up to the year you are reporting income (e.g. EBITDA for one production cycle forward). Include the costs for any equipment, supplies or infrastructure. Include the type, amount and source of any financing or funding used or anticipated.**

*In evaluating this section, the Department will review information such as: A clear understanding of the financial requirements associated with starting and maintaining an aquaculture operation, a reasonable and achievable plan for obtaining the funds necessary to carry out the proposal and an appropriate amount of time required to become profitable.*

## Section 10


**Public Notice and Disclosure**

You are advised that, in the event of a successful proposal and in accordance with Aquaculture Licence and Lease Regulations, the Department will disclose the proponent's name, the nature, geographic area, and scale of the proposed development associated with the call for proposals.

**Privacy Statement**

The personal and business confidential information collected as part of this form will only be used or disclosed by the Nova Scotia Department of Fisheries and Aquaculture for the purpose of deciding on the calls for proposals and any subsequent application made, should you be the successful proponent. All information collected is subject to the Freedom of Information and Protection of Privacy Act ("FOIPOP") and will only be used or disclosed in accordance with FOIPOP.

By signing and submitting this form, I acknowledge that I have read, understood, and accept the above statements regarding the collection, use, and disclosure of the information provided on this form. I also hereby certify that the information provided within and accompanying this form is true and correct.

<b>Signature of Proponent or Authorized Representative:</b>	
<b>Date:</b>	<b>June 13, 2024</b>

Submit completed form via email (preferred method), mail or fax to:

E-mail (preferred method): [aquaculture@novascotia.ca](mailto:aquaculture@novascotia.ca)

**Mailing Address:**

Nova Scotia Department of Fisheries and Aquaculture, Licensing & Leasing  
1575A Lake Rd, Sandy Point, NS B0T 1W0

**Fax:** 902-875-7429

**Office:** 902-875-7439

## Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA

<b>Section 3: Proposed Production Plan Summary</b>				
<p><i>Notes:</i></p> <p>1. Refer to the call for proposals to determine what species will be considered by the Department. At this time, only suspended cultivation methods are being considered.</p> <p>2. If you require additional rows, include the information into Section 5 (Production Plan Details) of your Proposed Development Plan.</p>				
Species Name	Expected Annual Harvest (in kg or # of units, or pieces)	Expected growout period (in years)	Maximum biomass on site (in kg or # of units)	# of years it will take to reach maximum production
Atlantic Oyster (C. Virginica)	200,000 pcs	3 Years	750,000 pcs	5-8 Years
Sugar Kelp	3,600 kg	6 months	3,600 kg	First year

## **Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA**

**Section 4: Production Plan Details** Provide a description of the infrastructure that would be in place to carry out your proposal. This includes but is not limited to: The type of gear to be used, the anticipated number and capacity of cages/bags/lines to be used over time. Dimensions and approximate number of anchors to be used, the source of seed stock and/or how it will be collected and any additional information to accompany Section 3 above. In addition, review the Site Report details for any unique mitigative measures to be considered and address them in this section. This proposal is understood to be based upon the information available at the time of the submission. In future years, the actual amount of gear used, seed stocked and other production values may be higher or lower than the projections and will be determined by operational performance outcomes experienced at the site, including, but not limited to, environmental monitoring and farm operations.

With my knowledge and experience of working at the Deon Oyster Company and reviewing the lease information on the ADA website, I realize that many aspects of this Production Plan are dependent on the dimensions of the lease. Determining the number of cages that can be placed per line and the number of lines that can be placed within the lease. A lease of 6 hectares could easily accommodate up to 1000 oyster grow cages, allowing for the potential of growth of over 2 million oysters within the lease at any given time. After reviewing the information provided by the terms of the lease and my knowledge of oyster farming, I will attempt to provide as accurate of description of the necessary infrastructure for this lease.

I intend to use oyster grow cages and oyster grow bags to grow the oysters within the lease, beginning with 250,000 seed during the first year, adding an extra 250,000 seed the following years allowing for continuance of product, ensuring no years of no harvest or income. Over the following years with financial growth once harvesting begins the ideal plan would be to continue adding more cages and lines to the lease and augmenting the number of seed purchased each year to have this lease growing oysters to its full potential.

The following is a description of the infrastructure required for the dimensions of this lease. I am aware that this is an assumption, using the best of my experiences and knowledge from my years working in aquaculture and that some of these parameters can change:

- My plan is to begin with 250,000 oyster seed during the first year of the growth period, with each oyster growing cage holding 6 bags and each bag containing approximately 1200 oyster seed per bag.

- The seed itself needs to be sourced from P.E.I. or New Brunswick as there are no hatcheries in Nova Scotia. If delivery is not an option, I will need to travel P.E.I. or New Brunswick to pick up the seed and transport it to the lease area with an approved introductions and transfer permit from DFO.

- The onset of this initial growth period would require a maximum of 36 cages, requiring 1 suspended line attached to the cages for the first year. During the following 2 and 3 years of growth, each bag would require having the seed removed and the limits within them lowered to permit further seed growth in the bags; therefore, doubling or possibly tripling the number of cages needed for the oysters. During this process the oysters will be cleaned through a tumbler, have clusters broken apart and have any dead loss removed to increase the potential of stronger growth each

## **Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA**

year before returning into the cages. After the growing period of 2-3 years, once harvesting commences, I am hopeful for a first harvest of 200,000 units once all oysters reach market size with the understanding that some oysters may need more time to grow. I understand that I can expect some loss of product due to oysters dying or to the potential of damaged equipment. The Deon Oyster Company, who will be buying these oysters, have allowed me to use their equipment if needed.

-At this initial point, I am expecting to place at minimum 150 cages per line. This total number of cages could increase with the possibility of having more cages per line, if there is no interference between cages or other lines. Again, as already stated, the dimensions of this lease will determine the total number of cages to be placed on a line.

-Depending on the length of each line within the lease, the lines would require a minimum of 5 anchors per line. These lines may need extra anchors due to the area in which the lease is located. From my experience as a fisherman and local to the area, the currents caused by the tides that flow between Argyle Sound and Frost Island can be very strong particularly during a full moon and new moon cycle. These stronger than typical currents can shift lines or break lines apart. The rise and fall of the tide could cause difficulties with the lines as well as the anchors, specifically if they are not heavy enough, thus indicating that anchors of considerable weight will be required to counteract the movement of the tides.

-Each line will be the length of the lease space with added lines being parallel with each other the width of the lease, allowing space between them for access. These lines can be constructed using new rope or I could easily find used rope from local fishers for a fraction of the cost of new rope. Over time with added cages and lines the entire lease space can be filled but this will take a few years before completing. Once the lease is properly marked with buoys, I would have a better idea of the maximum number of lines that can be placed in the lease.

I am also very interested in growing and cultivating sugar kelp within this lease, adjacent to the oysters. Growing sugar kelp would be advantageous as it requires minimal resources and maintenance. Additionally, sugar kelp can be cultivated during the colder winter months when the oysters are dormant, providing an added source of income.

- The lines for sugar kelp would be similar to the suspended lines used for the oyster grow cages, but without the additional lines for attaching cages. These lines would be placed along the length of the lease, secured with anchors at each end and additional anchors in between to maintain stability.

-The sugar kelp would be placed in the water on seeded lines in the fall and harvested in the late spring the following year. Acadian SeaPlants, a local company, will purchase and process the sugar kelp once it is harvested.

## **Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA**

Reading through the site report, it does not indicate the presence of eel grass and the lease is situated outside of saltmarsh habitats of Nova Scotia. However, the placement of this site presents the potential for ice flow during the winter months so the cages will need to be sunk to mitigate any possible damages. In my experience, the ice build-up in the area is minimal due to the stronger current that flows between Frost Island and Argyle Sound and usually isn't thick enough to cause significant damages. Over the winter months the water temperature drops to the point where the oysters become dormant therefore there is no danger to the oysters themselves.

# Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA

## Section 5:

**Benefits to the Local Community and the Province Provide a description of how your proposal would benefit the local community and the Province of Nova Scotia. For example, anticipated direct local jobs created, use of local suppliers, processors, seed stock, potential secondary industries, impact to other business development in the community and Province.**

This proposal would greatly benefit both our local community and economy. To help with the day-to-day operations of the lease site, I would initially need to hire 1 or 2 workers, creating employment opportunities for local individuals who are seeking work. It is also possible that I would need to hire more workers to help with sorting, packing and delivery, depending on the prosperity of the oyster growth. This would allow for economic growth in my community and would also encourage community members to learn about and become more involved in the aquaculture industry. I would also source wire for the cages to be built from local wire suppliers such as Wades Wire Traps and rope for the lines to attach the cages to which I could purchase from Fox Hill Marine a local company that builds lobster traps and supplies rope. As I have already stated, I could also purchase used rope from local fishermen or recycle rope they are willing to throw away.

Once the oysters reach market size, they will be sold to Deon Oyster Company, providing them with the necessary stock to fulfill their orders and creating additional work for their employees. During my time at the company, I have observed the need for my employer to source market-ready oysters from outside the province to maintain stock during the winter and early spring, ensuring the processing and sale of future orders. By keeping more money within our provincial and municipal economy, this approach would benefit the local industry rather than directing funds to out-of-province aquaculture.

The sugar kelp would also help local business in our area as Acadian SeaPlants will be the ones processing the kelp adding to our local economy and having a boost in the sea plant economy in Nova Scotia.

This proposal could serve as a significant step forward for the province, encouraging other municipalities to initiate and establish their own aquaculture development programs. If successful, it could demonstrate the industry's potential for growth, leading to the creation of jobs and providing employment opportunities for site workers, processors, transporters, and marketers. This, in turn, would bolster the local economy and promote the sale of our products.

As a 23-year-old, I believe this proposal could be an excellent way to encourage younger individuals to enter the aquaculture industry and continue its long-term prosperity. It would be satisfying to see younger adults find employment in this field and contribute to its growth. To help inform the next generation of potential oyster farmers, I could reach out to the three local high schools and propose a partnership to offer co-op opportunities for students enrolled in this course. This initiative would educate students about oyster farming and potentially encourage them to pursue careers in this field, while also helping families learn more about the industry. This proposal has the potential to inspire not only individuals in the municipality of Argyle but the entire province to view aquaculture as a viable and rewarding career choice.



## **Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA**

One challenge I anticipate is the acquisition of seed to begin cultivation. Based on my experience with Deon Oyster Company and to the best of my knowledge, there are no oyster hatcheries within the province of Nova Scotia. To obtain seed, I would need to purchase it from hatcheries in either New Brunswick or Prince Edward Island.

# Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA

## Section 7:

**Ability to Execute the Proposed Activities Provide a description of your relevant knowledge and experience. This can include education, business experience, aquaculture experience, previous aquaculture compliance history, previous experience in community engagement, proposed management team (if known), other relevant information to demonstrate the technical and business skills available to execute the proposed development.**

I have been working in aquaculture for 5 years with the Deon Oyster Company. I have a significant amount of experience with handling oysters and how to properly maintain them during my time at the oyster farm. From acquiring seed to putting them in the water, constructing lines and cages to place the oysters in, air drying the oysters periodically in order to eliminate the growth of other species such as tunicates or muscles on the oysters, maintaining the site from damages caused by storms or ice during the winter and maintaining equipment to process the oysters in order to successfully run the operation without encountering many issues.

I have eight years of hands-on experience working on lobster boats alongside my father and other captains. During this time, I have developed expertise in constructing buoy lines, lobster traps, and trawls, as well as maintaining and repairing boats. I hold a Fishing Masters Class 4 certificate, which qualifies me to operate various sizes of boats with proficiency and confidence at the helm. My experience extends beyond the technical aspects of fishing to include a strong understanding of the business operations involved in running a fishing company. I have gained insights into managing business expenses, ensuring financial stability to cover crew wages, bait, fuel, and the necessary materials for the day-to-day production. Additionally, I am well-versed in the regulatory requirements to ensure both the boat and crew adhere to safety standards, thus avoiding potential fines or license suspensions.

I am an honors graduate from the Nova Scotia Community College (NSCC) with a certificate in Industrial and Marine Diesel Repair. This education enables me to independently conduct maintenance and repairs on mechanical issues related to boats and their hydraulic equipment. My practical experience includes addressing various mechanical problems for the Deon Oyster Company, where I have worked on their equipment and boats. Additionally, I have applied my skills to repair lobster boats, utilizing the knowledge and experience gained from my coursework.

I also have access to a lobster boat, which can be used for transporting large amounts of equipment to the lease and for processing significant quantities of oysters, using a tumbler placed on the deck. This lobster boat, which would otherwise remain idle at the Camp Cove Wharf in Lower Argyle for most of the summer, is available for use. Additionally, I have a skiff that allows access to areas within the lease where a larger lobster boat would not fit.

## **Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA**

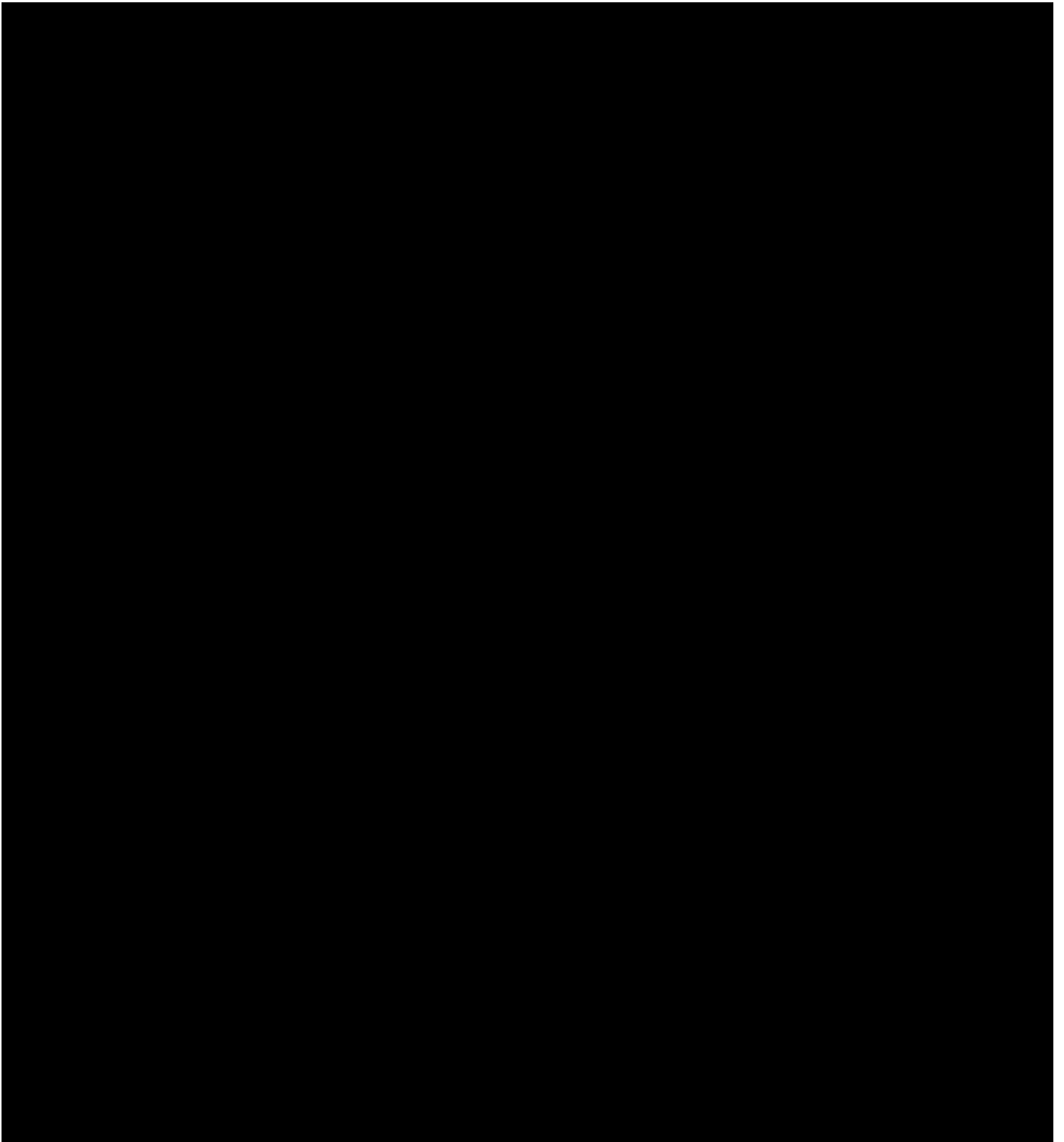
**Section 8: Market Plan** Provide a description of your basic market plan. For example: Product forms, anticipated price(s), target market, distribution of product and marketing/promotion of

In discussions with the owner of the Deon Oyster Company, regarding the buying and selling of the oysters once they reach market size, he has agreed to purchase the oysters grown from this lease at market value.

The sugar kelp would be sold directly to Acadian SeaPlants for processing and selling. With the discussions I've had with members of our municipal board, they will be the ones processing and selling the sugar kelp once it's been harvested.

## **Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA**

**Section 9: Financial Plan** Provide a description of your financial ability to carry out the proposed activities. Include a detailed description of your initial start-up costs and how you plan to fund these costs until you are reporting income, providing documented evidence where possible. Provide or attach a detailed breakdown of your anticipated annual revenue and expenses starting from the year of start-up to the year you are reporting income (e.g. EBITDA for one production cycle forward). Include the costs for any equipment, supplies or infrastructure. Include the type, amount and source of any financing or funding used or anticipated.



## Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA



## **Proposal for the Exclusive Right to Apply for a Licence and Lease Within an ADA**

**Section 10: How does your proposed development plan along with your unique combination of expertise, experience and resources position you as the most suitable proponent? Refer to the call for proposals to determine if there is any additional information being requested as part of your proposal. Include any other information that you would like to be considered in review of this proposal.**

I am confident that I am the most suitable candidate for this lease due to my extensive experience in aquaculture, thanks to Deon Oyster Company, and my in-depth knowledge of the area where the lease is located. Over the past few years, I have gained valuable insights and hands-on experiences working in the aquaculture industry, particularly during my time with the Deon Oyster Company. My familiarity with the surrounding waters, derived from years of fishing in the area, further enhances my understanding of the local marine environment and its specific conditions.

This lease opportunity is important to me, and I am fully prepared to commit to it with dedication. My interest in aquaculture has grown steadily, beginning with my initial exposure at the Deon Oyster Company and my interest and commitment to beginning this project as a small business owner and member of my community. The possibility of participating in the ADA program and securing a lease space near my home in Lower Argyle allows me to follow my personal aspirations and interests of working and owning my own company while remaining close to home. It also allows me to showcase the aquaculture industry to others, opening doors to potential new investors and potential harvesters.

I am approaching this process with a clear vision and a deep understanding of the requirements and challenges involved. This is not an opportunity I take lightly, and I am determined to make the most of it. My background in the lobster fishery, my work with building cages, my experiences with Deon Oyster Company, my passion for aquaculture, combined with my trade of marine engine repair positions me uniquely to succeed in this venture and contribute positively to the development and sustainability of the industry in our region.

I trust that my strengths and my extensive experiences will be carefully considered for this application. I firmly believe that my knowledge of the local area, my connections with local companies, and my expertise in diesel repair make me a highly suitable candidate for this lease as I aspire to contribute to the community and economy of the Municipality of Argyle.

# SCHEDULE A



## Aquaculture Site

**1478**

Corner	Latitude	Longitude
1	43° 42' 34.34"	-65° 49' 28.55"
2	43° 42' 36.57"	-65° 49' 20.16"
3	43° 42' 27.44"	-65° 49' 15.56"
4	43° 42' 25.22"	-65° 49' 23.95"
Centre	43° 42' 30.98"	-65° 49' 22.04"

DATUM NAD 83 CSRS UTM Zone 20  
The above coordinates are not from a legal survey



License/Lease Holder

Conner Greene

County

Yarmouth

Waterbody

Argyle Sound

Hectares

6

Species Type



Shellfish; Marine Plants


Culture Type

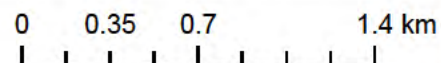
Suspended Culture

Chart

4244

 Proposed Application  
 Other Lease In Registry

 Other Issued Lease



**Disclaimer**  
This map should not be used for navigation or legal purposes. It is intended for general NSDFA use only.  
Date: 2025-08-21  
Created By: MK



# SCHEDULE A

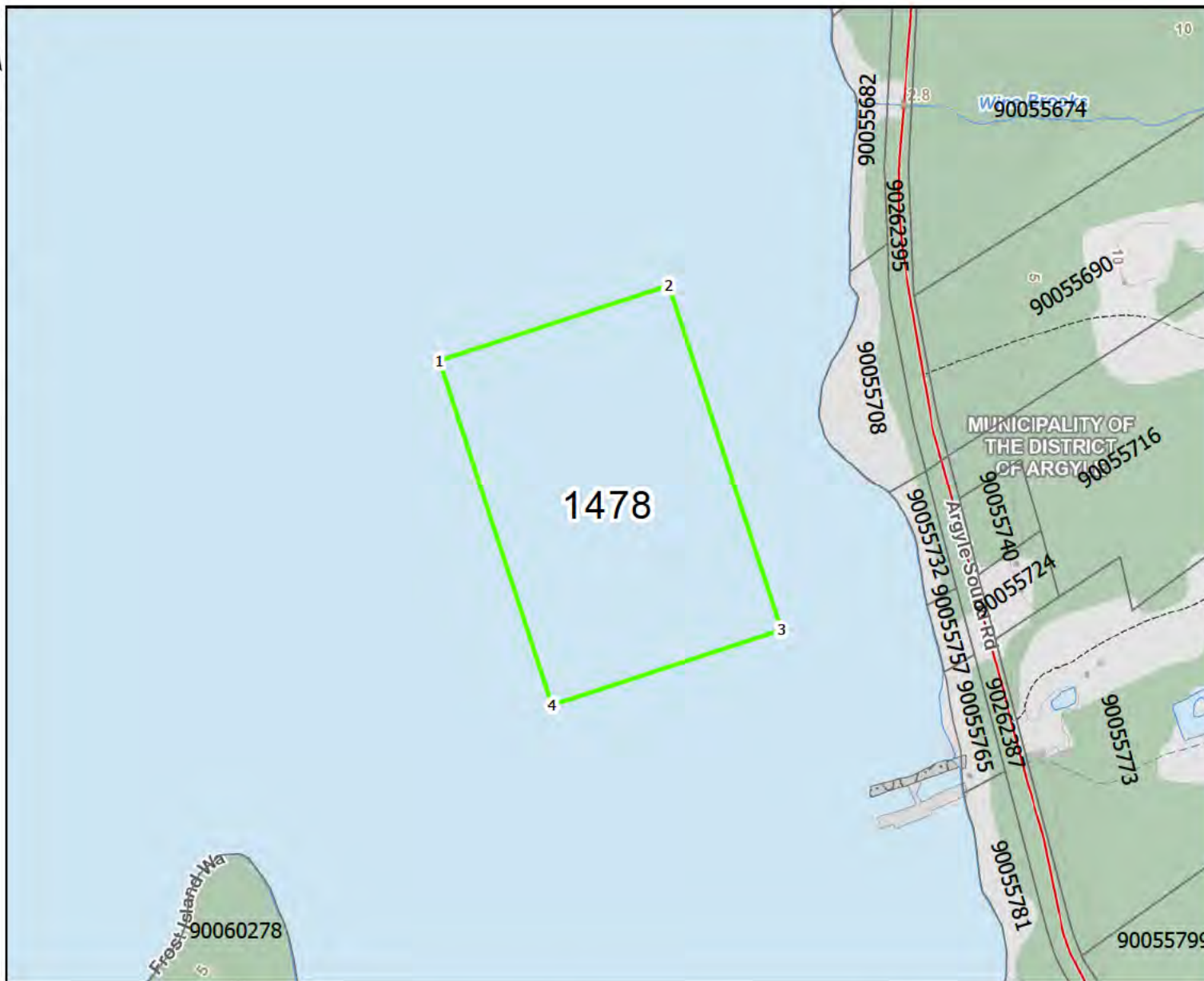


## Aquaculture Site

**1478**

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DATUM NAD 83 CSRS UTM Zone 20  
The above coordinates are not from a legal survey



License/Lease Holder

Conner Greene

County

Yarmouth

Waterbody

Argyle Sound

Hectares

6

Species Type

Shellfish; Marine Plants

Culture Type

Suspended Culture

Chart

4244



Proposed Application



Other Issued Lease



Property Boundary



Other Lease In Registry

0 50 100 200 300



Meters



### Disclaimer

This map should not be used for navigation or legal purposes. It is intended for general NSDFA use only.

Date: 2025-08-21

Created By: MK



# Application for a Marine Aquaculture Licence and Lease within an ADA

This form is to be completed by the successful proponent selected by the Administrator or, in the case of a corporation, an authorized representative.

<b>Name of Successful Proponent:</b>	Connor Greene
<b>Name of Authorized Representative (if applicable):</b>	

<b>ADA Site (AQ#)</b>	8046
<b>Application File No.</b> (if no file number was provided to you, leave this field blank)	1478

## Development Plan

A Development Plan is required to be submitted with this application and must contain all required information. Refer to the separate document titled “Guide for Marine Aquaculture Licence and Lease Within an ADA Development Plan” for how to complete a development plan.

## Fees

A non-refundable application fee is required in order to process your application. Please contact the Department of Fisheries and Aquaculture (the “Department”) if you have not yet received an invoice. See below for how to submit the fee required.

Payment may be submitted via the following options:

- Cheque or money order, payable to the **Minister of Finance and Treasury Board**
- Credit Card via the Online Payment Portal, at the following website:  
[https://accesstobusiness.snsmr.gov.ns.ca/a2b\\_web/fishAquaculture](https://accesstobusiness.snsmr.gov.ns.ca/a2b_web/fishAquaculture)

## Public Notice and Disclosure

As part of the process for deciding on an aquaculture application, the Department may disclose application information (and prior proposal information) to other government bodies. In accordance with Departmental policy, which seeks to promote public involvement in the process for deciding on aquaculture applications, the Department may disclose application information

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By signing and submitting this form, I acknowledge that I have read, understand, and accept the above statements regarding the collection, use, and disclosure of the information provided on this form.

<b>Signature of Proponent or Authorized Representative:</b>	
<b>Date:</b>	March 6, 2025

**Submit completed form via mail, email or fax to:**

**Mailing Address:**

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## **Section 1: Executive Summary:**

This production plan outlines the approach for the establishment and operation of an oyster and sugar kelp farm within a proposed lease area. The plan, building on a previous proposal from 2024, involves growing oysters in OysterGro cages, with each cage holding six bags of oysters, to a target of 250,000 oysters per year. The oysters are expected to take around three years to reach market size, with additional cages being added as production increases. By the end of the first three years, approximately 150 cages will be in operation.

Seed oysters will be sourced from a New Brunswick hatchery, due to concerns regarding contamination from local wild seed sources, and the option to harvest seed within the lease itself will be explored in the future. Sugar kelp will be grown separately in the lease, placed in the water in late fall and harvested in spring. The kelp will be processed by Acadian Sea Plants.

The business plan anticipates an initial investment of \$200,000 for equipment, gear, and seed, with additional funding sought through loans and potential grants. Operational support will initially require 1-2 part-time employees, with the possibility of additional seasonal or full-time positions as the business expands. Marketing efforts include a contract with the Deon Oyster Company, ensuring the sale of the oysters once harvested.

Site design includes the installation of OysterGro cages on 10 lines, with sufficient anchoring and buoying to meet Transport Canada regulations. The layout ensures safe navigation around the lease while maximizing space for oyster and kelp production. During winter, the cages will be sunk to avoid damage from ice. The project aims to begin gear installation by early 2026, with the first harvest of oysters expected between late 2028 and early 2029.

This plan outlines a sustainable and growth-oriented approach to aquaculture, with a focus on maintaining compliance, ensuring environmental safety, and developing a successful business model for the future.

## **Section 2: Production plan**

My production plan is still very similar to the proposal I had submitted back in 2024 with a few changes. The gear I intend to use in the lease space is OysterGro cages with OysterGro bags for holding the oysters within them. As I have stated in the proposal, a lease of this size could very well accommodate up to or even possibly over 1000 cages depending on the setup of the lines and spacing between them although to reach such numbers it will take a large amount of time before anything of that scale can be reached.

Depending on when the application and lease will be approved, I am planning to beginning the first few months testing to see what kind of growth/production I can expect in this lease. I am very hopeful that oysters will grow in this lease without issue.

I will be using OysterGro cages in this lease for growing the oysters. Each cage will hold 6 bags of oysters per cage with estimated 1500 oysters per bag. During this time the oysters are less than 1 cm in diameter allowing for large numbers in each bag to start. Each bag is a third of the size of the cage and can have 2 bags per slot. A picture of a cage with bags will be placed in section 4. The number of oysters per bag will change over time as they will need to be thinned out to allow them more space to grow. The initial number of oysters for the first year of the growth period will be around 250 000 amounting to around 36 cages. More cages will be added in later for more stock and thinning out numbers of oysters per bag.

Anchors will be placed within the lease holding everything in place as well as buoys to mark the extremities of the lease and buoys inside to mark where the lines and anchors will be in the event that someone has to travel through the lease.

The growth period will take roughly 3 years before they reach proper sizing for sale. Over these 3 years, I will be adding an extra 250 000 oysters each year to ensure a continuation of revenue and then reassessing after the first 3 years on the possibility of continuing to grow the stock within the lease or pausing and continuing with the continuing rotation of 250 000 oysters. Over this time extra cages will be placed into the lease. Over these first 3 years I am expecting to have around 150 cages in the water.

Once the oysters have reached market size they will be harvested, cleaned and graded to be sold. Any oysters that do not reach market sizing will be placed back in the water and be allowed extra time to grow.

The source of the seed that I will be getting has changed. In my proposal, I did not fully specify where the seed would be harvested from for growing here. During the time I was writing the proposal, I had intended on getting seed from New Brunswick or Prince Edward Island. The seed would have come from local farmers in P.E.I. who cultivate wild caught oysters or from the oyster hatchery L'Etang Ruisseau Bar Ltd Mallet Oysters in New Brunswick. Due to the presence of MSX found in PEI and now along the western side of New Brunswick, wild caught oysters are no longer an option due to the risk of contamination. From speaking with people within the industry, the hatchery in New Brunswick is still an option for seed as they grow their oysters in treated water in a holding tank and not in the ocean. This will also be dependent on a transfer permit from DFO allowing me to buy seed from outside of the province. Sadly, there are no options for seed in the province of Nova Scotia at this time. If possible, I will also be looking at harvesting my own seed using collectors within the lease at a later time.

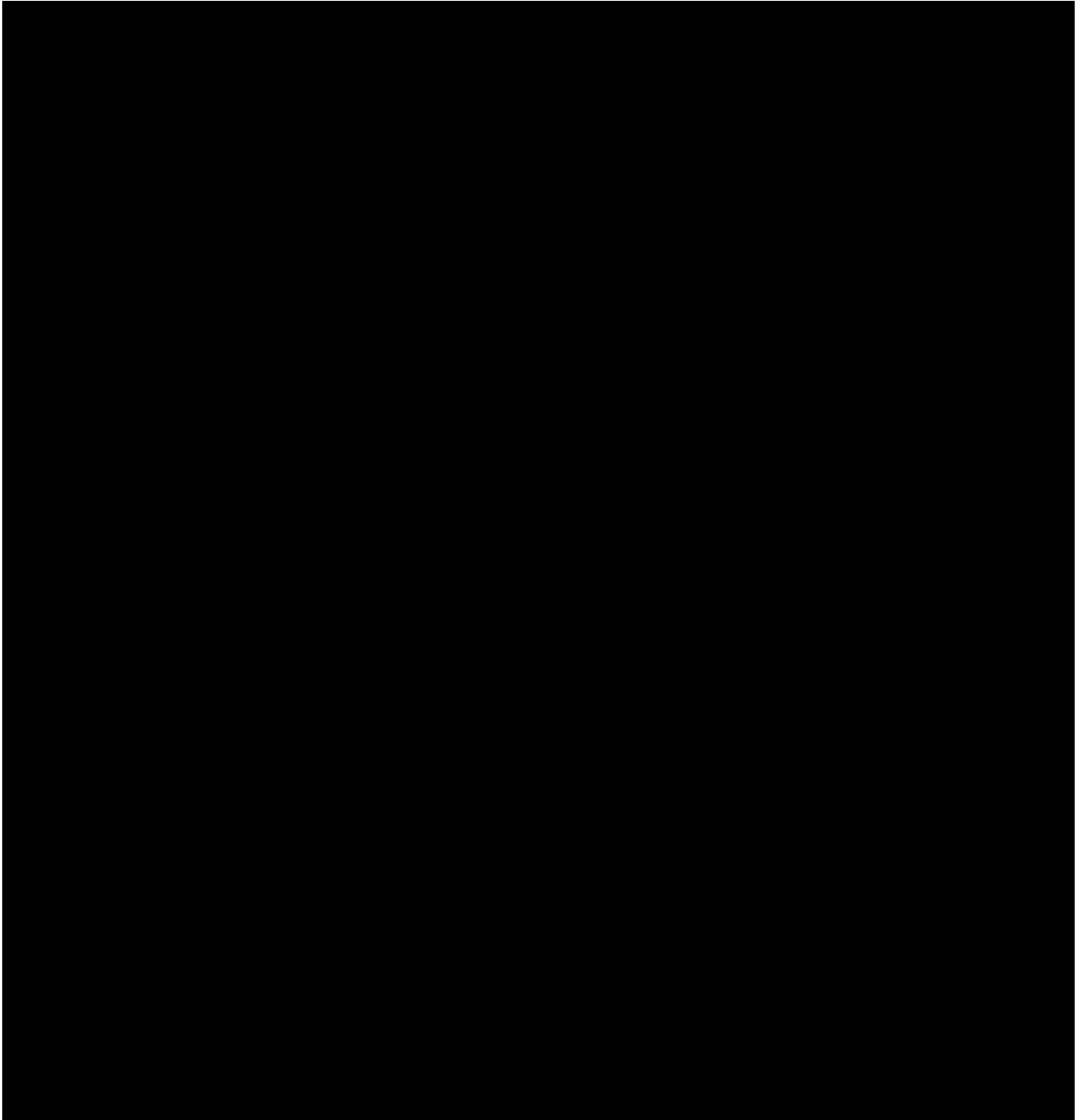
Depuration of shellfish is not intended as I do not have the means nor will the operation be large enough to do it. If it seems like I will be needing to later on, I will be getting in contact with CFIA to ensure the proper measures are taken.

During the beginning phases of this operation, I will most likely need to hire 1-2 people in aiding me set up and maintain the lease and the product within it. The positions will be part time as the majority of the time the oyster will be in the water growing and should be left undisturbed. Part of the work will be helping me build cages and lines for the lease and flipping the cages to air dry occasionally to mitigate any growth of invasive species such as tunicates that can cover the cages and bags causing the oysters to suffocate limiting the proper flow of water to them. Over time, full time and seasonal positions for maintaining, harvesting and transporting may become available with the growth of the business.

I also indicated the interest of doing sugar kelp as well. The plan is still the same going forward with having both oysters and kelp in the lease but being placed separate from each

other. The kelp will only get placed in the water in late October going into November, growing through the winter and spring months before being harvested in late may or early June as they stop growing in warmer water temperatures. Again, I will most likely need the aid of someone to help me harvest and transport the kelp back to shore to be sold. The sugar kelp will be place and grown yearly as they take little time to reach its maximum size and only have one cycle of growth.

### Section 3: Business plan



My marketing plan has not changed. The Deon Oyster Company has ensured me that they will buy my oysters as I will be aiding them in providing to their markets when they do not

have enough of they're own product to fill orders. An agreement has been made between each other for when harvesting begins.

The sugar kelp will be processed at Acadian Sea Plants. From my understanding they are going to be buying it from farmers once harvested.



## Section 4: Site design

After reviewing the information given to me about the lease space, I have determined what I believe the best use and design of the lease space to maximize production and revenue while adhering to Transport Canada regulation. Site design and gear needed will be show in diagrams and pictures below. All site diagrams and specs are specific to this site.

The outer corners will be marked will large yellow cautionary buoys with the site information and reflective tape while also being visible on radar for vessels passing by in low visibility conditions. Smaller buoys will be places following the outer perimeter in between each corner buoy placed no more than 100 metres apart to ensure visibility of the lease perimeter. All perimeter buoys will be held in place by large concrete anchors and sufficient lines to ensure no movement.

After reviewing the site information, I believe 10 lines can be placed inside this lease. The lines holding the cages in the lease will be constructed using rope similar to rope used by lobster fishers as it is the best option. Each line will span the length of the site running north and south being placed parallel with each other east to west to both extremities of the lease with roughly 20 metres or 60 feet of spacing between them to allow access to the lines. Cages will be placed 2 feet apart, with each cage being tied with ropes of 8 feet to the main line on each end of the cage holding the cages in place. Each line will consist of 5 anchors, two large concrete or rock anchors on each end with additional anchors in between reducing the sway of the lines. More anchors may be needed depending on conditions inside the lease. The main line will be sunk under the water roughly 6 feet with the help of weights placed in various spots in the main line. Buoys will be placed on the main line and in the area of the anchors to ensure they are visible if cages cannot be seen. The sugar kelp line will be similar to the oyster lines but without cages as the sugar kelp grows on the main line. Buoys will also be placed on these lines to ensure visibility of the placement of the lines.

The cages I will be using are OystersGro cages. A wire cage similar to the same wire used to build lobster traps, formed into a box with dividers inside to hold 6 OysterGro mesh bags. Each bag inside the cage is a third of the size of the cage itself and can fit 2 bags per slot. The cages are roughly 5 feet long by 3 feet wide and 8 inches in height without the pontoon

buoys attached. Each cage is fitted with pontoon style buoys on one side in order to roll the cage upright for air drying to stop the growth of invasive species such as tunicates. These buoys also have caps on each end allowing for the buoy to be filled with water in order to sink the cage during the winter months. The full height of the cages can vary with the type of buoys attached. OysterGro offers different size buoys specific to certain needs. Overall height with the buoys attached should be no more than 1 foot and a half.

The anchors will mostly consist of concrete blocks or large rocks to ensure limited to no movement of the gear within the site. Due to the presents of tide and currants, larger anchors for the corner buoys and on the ends of the lines could weigh hundreds or even thousand plus pounds. These anchors will be designed to stay stationary for the majority of the time inside the lease. The anchors that will be placed in between each large anchor do not necessarily need to be as heavy as the other. Therefore, smaller steel anchors similar to what lobster fishers use or smaller rocks or rope bags filled with rocks can be used. The seabed inside this lease is a rockier type bottom. These types of anchors are best suited for the area. The depth of the entire lease ranges from 1 to 2.5 fathom (6 to 15 feet).

During the winter months when ice is present, the cages will be sunk in the water to mitigate any risk of damage or loss of gear and loss of oysters due to ice covering the cages and freezing. The cages would be sunk in December and raised in in march or April depending on weather condition and temperature of water. Added smaller buoys will be place inside the lease connected to the main line to ensure visibility of the lines and where they are situated.

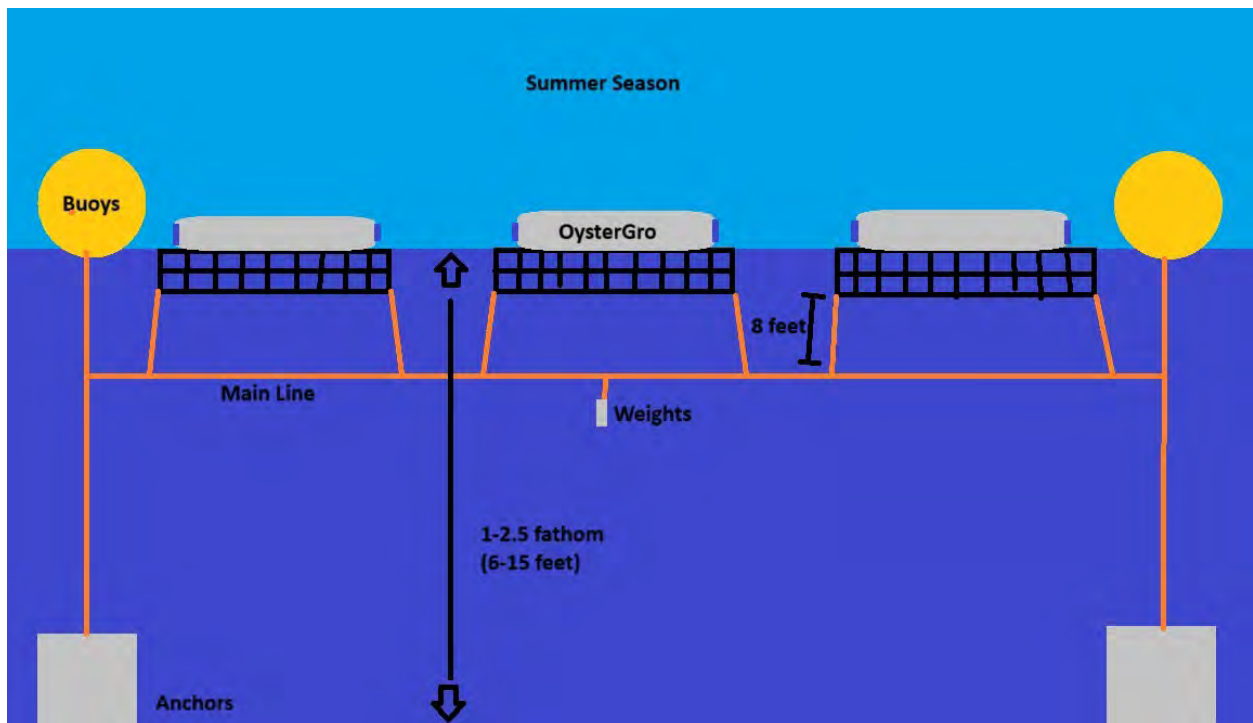
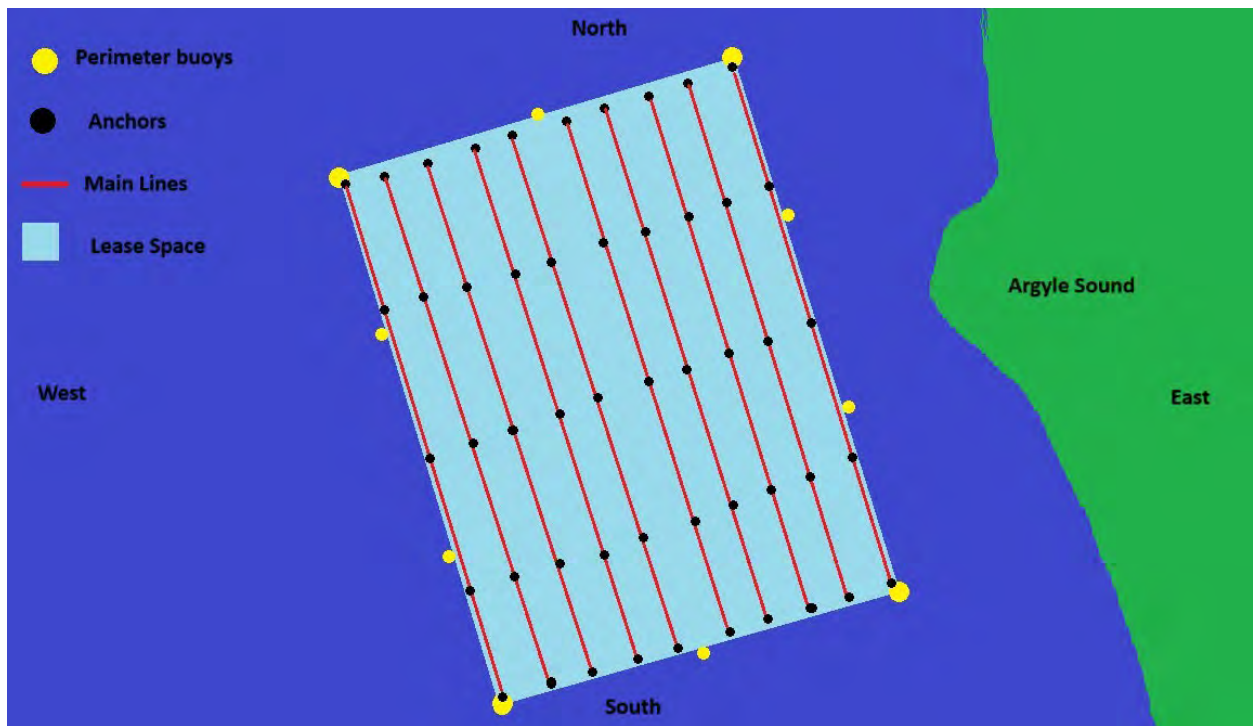
The sugar kelp would be sunk below the top of the water the entire time. The sugar kelp line will not be in the water year-round compared to the oyster lines. Sugar kelp lines are usually placed late fall and harvested in late spring. Buoys will be placed for visibility of the lines as well similar to the oyster lines. My intentions are to start introducing gear by early 2026 with potential start of harvesting late 2028 to early 2029 for oysters.

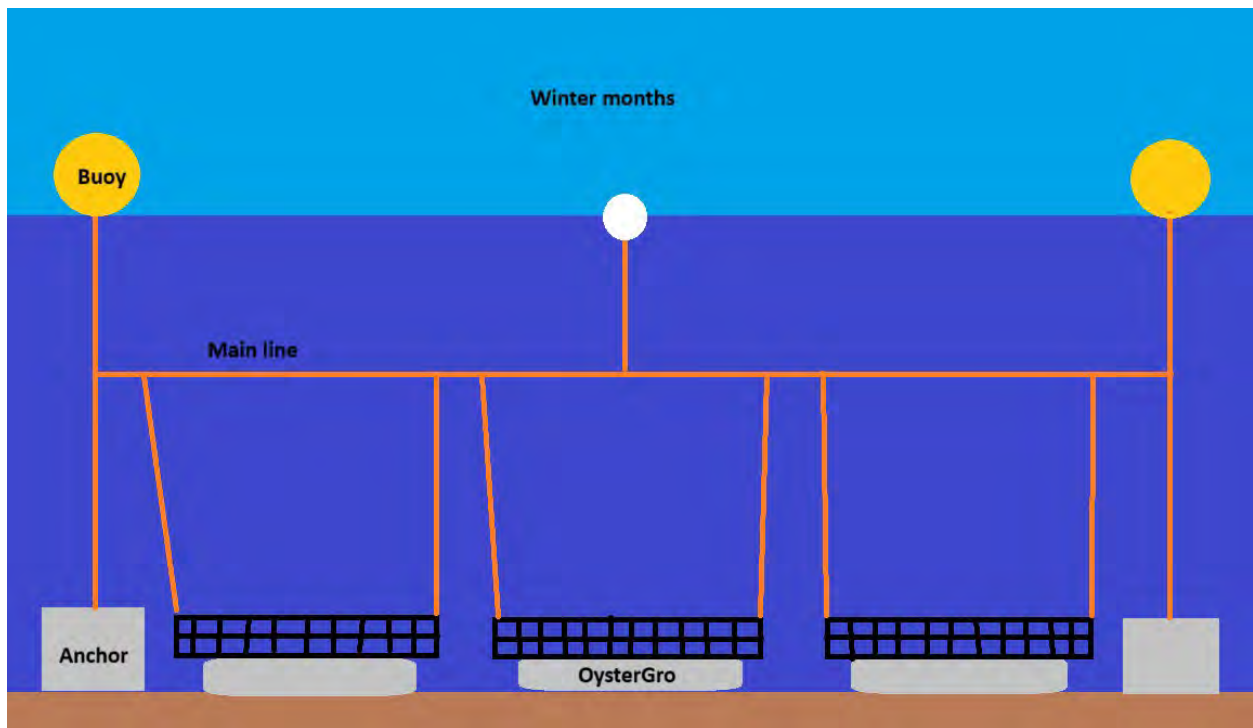
After speaking with a representative from transport Canada about the lease, they have determined that a corridor through the lease is not necessarily due to the available space around the lease to safely navigate around it. They have also informed me on the specific

buoys needed to properly mark the area of the lease and I will be taking every precaution to ensure safe navigation. A navigational application will be submitted to Transport Canada.

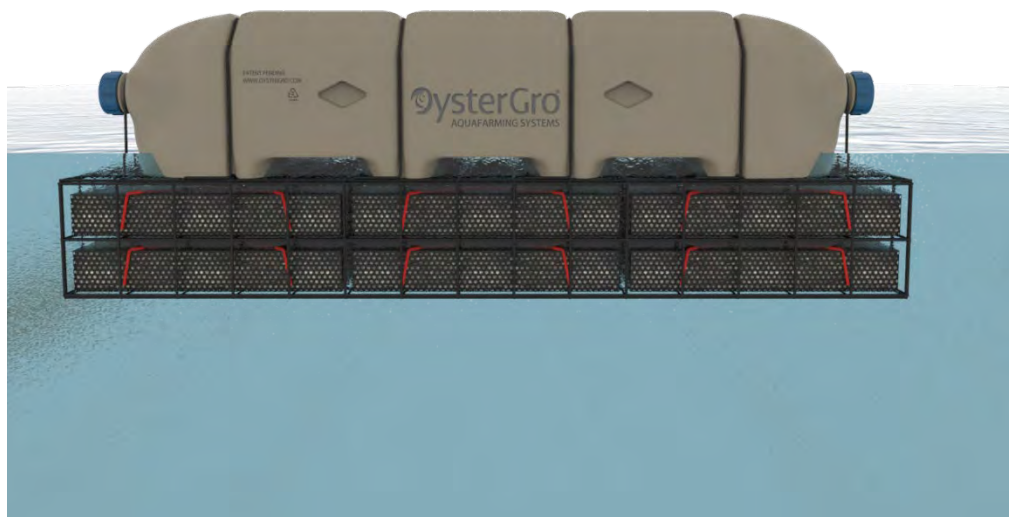
Also, as stated in my proposal, I have reviewed the site report for any presents of eel grass or saltwater marsh habitats. No eel grass was found in the lease space and it is outside of any saltwater marsh habitat.

## Site Diagrams





OysterGro cage







OysterGro bags



Concrete anchors



Perimeter Buoys



