From: Alix d"Entremont
To: [redacted]
Cc: Alain Muise
Subject: FW: Aquaculture Development Area Pilot Project
Date: February 16, 2023 1:21:16 PM
Attachments: On Page 6 / 8 [redacted]
Sensitivity: Confidential

[redacted]

Sorry for my late response to your latest email. I was awaiting further details from the NS Department of Fisheries and Aquaculture (NSDFA) and to speak with Alain Muise (cc'd) the Chief Administrative Officer of the Municipality of Argyle before replying.

Firstly, I'd like to apologize that you feel that your concerns aren't being considered. That was not my intention. I just wanted to share with you some of the things that we had considered in relation to your comments. While the decision support tool has been used to help guide our analysis of suitable areas for the expansion of the aquaculture sector, it is not the only thing that has been or will be used. All feedback from you that has been received by the Municipality has been shared (anonymously) with the NSDFA and will be included in the report to the NS Minister of Fisheries and Aquaculture.

In your response, you ask what is an "ADA polygon". Sorry for not clarifying this. It is a specific area under consideration for the ADA project. The Municipality can inform the Property Valuation Services Corporation (PVSC, the assessors) of the ADA if and when it is moved forward by Governor in Council.

If other engagement opportunities arise, I will let you know. If you want to meet in person, let us know when you are back in NS.

From: [redacted]
Sent: Friday, January 13, 2023 1:00 PM
To: Alix d'Entremont <gistech@munargyle.com>
Cc: [redacted]
Subject: RE: Aquaculture Development Area Pilot Project
Sensitivity: Confidential

Thanks Alix – sorry for the late response due to the holidays. Please comments from [redacted] and me below in red font for file and future reference.

Here is some summary feedback: The ADA program seems to be including a lot of data into your decision support tool but I'm not hearing that there is a capability to factor in the concerns of residents like myself. I've presented my issues and concerns, and frankly this email response feels like an exercise to counter my concerns one by one (using the decision support tool?) in order to

proceed with the program as originally planned. Respectfully, I'm a bit disappointed because it feels like I'm being interpreted as a hurdle to outmaneuver. I hope that's not the case.

Regards,

[redacted]

From: Alix d'Entremont <gistech@munargyle.com>
Sent: November 29, 2022 10:07 AM
To: [redacted]
Cc: [redacted]
Subject: RE: Aquaculture Development Area Pilot Project
Sensitivity: Confidential

[redacted]

I'm emailing to provide a response to your email on November 3, 2022, regarding the Aquaculture Development Area (ADA). We take your feedback seriously. I want to share a few things in reference to the points that you've highlighted. A spatial decision support tool was used to guide the identification of suitable areas for the ADA. Many of the factors that were included in this tool will be mentioned below.

Tourism: A presentation was given to the Yarmouth and Acadian Shores Tourism Association (YASTA) on Sep 22, 2020. In attendance were representatives of the [redacted], the Yarmouth Chamber of Commerce, and the [redacted]. The Municipality has employed Tusket Islands Tours on at least two occasions related to the ADA project, during which details of the project were shared with them. [redacted] as one example doesn't want to see an oyster farm in front of its restaurant. The same applies for residents. I don't want to see a commercial fish farm in my backyard either, yet I'm currently looking at one in Salt Bay across from my residence. I wasn't consulted then, which is why I'm weighing into the discussion now. Lobster bay is a big place and there are many hidden areas that would be more appropriate for a commercial fishery/oyster farm.

Recreational Boating: Bathymetric data was consulted and Transport Canada was engaged during our search for suitable sites to preserve navigational routes both for recreational and commercial users. If the ADA project is successful, a review of navigational routes will be undertaken by Transport Canada during the application review phase by the Nova Scotia Department of Fisheries and Aquaculture (NSDFA). Transport corridors identified from marine Automated Identification System (AIS) data and bathymetric data were incorporated in the decision support tool. With reference to the existing American Oyster aquaculture leases in Salt Bay, the site contains a navigational corridor of 15 m in the deepest part of the channel that was imposed by Transport Canada to allow access through Salt Bay (as you've mentioned). A similar requirement would be

imposed by Transport Canada for any future lease if required. Please ensure my concerns on boating access are taken into consideration. As per previous comments, you should be focusing on locations away from residences, tourism, and recreation vs defending why oyster farms need to be situated in main boating thoroughfares like Grand Passe as one example. I'm now completely discouraged from boating through Salt Bay as the Oyster Farm has taken over both sides. A narrow channel down the center with rope, equipment, buoys, and a floating processing plant does not encourage boating in Salt Bay. It's an image that says "stay away".

Swimming: A dataset of popular swimming locations was created by the Municipality through conversations with staff from various communities and a review of aerial imagery. This was supplemented by a beach dataset from the Department of Fisheries and Oceans (DFO) that were both included in the decision support tool. If you are only consulting with staff internally, its another example of not communicating externally to residents like myself. Decisions will likely be made and then I'm forced to complain to address any gaps in your data. I'm then perceived to be an adversary and treated as such. That's unfair and positions me as an adversary instead of a stakeholder.

Water Access: Water lots from the Nova Scotia Geomatics Centre, anchorage points from Open Data Canada, private wharf structures and Small Craft Harbours from DFO, and port facilities and boat launches from NSDFA were included in the decision support tool. We engaged with both Tidal Organics and Acadian Seaplants to ensure that their concerns regarding access to the coastline was preserved. That's good, but overtaking Salt Bay as one example with a channel down the middle for boating is not attractive or desired by me or the community. I fear Grand Passe is next. Again, let's see some effort/movement towards considering places away from residences, tourism, and business. I haven't seen that yet because the farms are being set up in the "easy" and desirable places.

Archaeology: Archaeological sites from Nova Scotia Communities, Culture, Tourism and Heritage were included in the decision support tool. Also, the NSDFA is currently consulting with the Mi'kmaq of Nova Scotia and are engaged in the identification of Mi'kmaq rights both past and present. With reference to the Acadian Aboiteau at the southeast end of Salt Bay, our SONAR work in the area has shown that there is inadequate depth within the potential ADA polygon in this area, therefore, I can tell you that this potential polygon will almost certainly be removed. I'm not sure what an ADA polygon is but would agree the water depth at that end is only 1-3 feet at low tide.

La Grande Passe: The three existing American Oyster sites in La Grande Passe are not included in the ADA pilot project areas. Because of these existing leases, no potential ADA areas were identified in La Grande Passe to leave the remainder of the marine area for commercial or recreational users. Good to hear. I feel like I've missed out on earlier consultations, but I'm also formally asking to be including going forward as a community stakeholder for any pilot project considerations.

Waterfront Views and Property Value: Thank you very much for your comments regarding aquaculture operations near to waterfront properties. We appreciate this feedback and like your other comments, it has been forwarded to the NSDFA. If you are concerned that the assessed value of your property is too high, you can appeal. The appeal information can be found on your assessment notice and at https://www.pvsc.ca/assessment-appeals. Thank you, -we will. As your

program crosses into property assessments and taxes, I'd appreciate if you can CC or forward this to the appropriate PoC in the district office for their information.

Your Suggested Locations: In your November 3, 2022 email, you include a map of areas that you suggest may be appropriate for aquaculture which includes an area north of the Widgegum Islands, Indian Bay, Glenwood Bay, the Upper Argyle River, and a channel east of Calf Island. Available bathymetric data suggests that the area north of the Widgegum Islands does not offer enough area with adequate depth for farms, especially for marine plants like Sugar Kelp. We do include a potential ADA areas in Indian Bay, Glenwood Bay and the Upper Argyle River where the depth is adequate but also away from the main channels and areas used by lobster fishers. Commercial fishers make use of the channel east of Calf Island, so a potential area was not identified there. We are at a stage in the project where new locations cannot be put forth because that would require a re-engagement with many Federal and Provincial agencies and the Mi'kmaq of Nova Scotia which would introduce an unacceptable delay in the project. Respectfully I will challenge the water depth debate. Based on my sonar and charts I do know there are areas of water that are the same or deeper than where farms are currently positioned in Salt Bay, Grand passe, and alongside Calf Island. Again, this part of the response feels like you are countering my concerns with a position of "we disagree, it's too late, and we will proceed as is". Frankly, that's unacceptable and is a reflection on a communication strategy that is not permeating through the community other than by word of mouth. I see you have a website, but a more robust coms strategy / stakeholder outreach is required beyond what has been done to date, and that coms strategy needs to be listed on your website clearly with an ability for interested parties to register as stakeholders; with regular outreach and updates by email and social media.

Again, thank you so much for your well-prepared feedback on the ADA pilot project. We certainly do want to balance the need for economic diversification and other competing interests, so your comments will help us in finding this balance. I will let you know if an opportunity arises where you could further represent the interests of the community in reference to this project. Thank you -I'd appreciate if you can include me in future community meetings and discussions. As I travel for work, I would appreciate if you could ensure any future meetings include a Zoom conference or equivalent.

If you'd like to meet with me in person or have a virtual meeting, please let me know. If you'd want to also meet with a representative of the NSDFA, we can also arrange that. I spend my summers in [redacted] so yes, I'd appreciate an opportunity to meet in person for an update on the pilot/program and status/next steps. I'll be in touch.

From: [redacted]
Sent: Thursday, November 3, 2022 2:07 PM
To: Alix d'Entremont <gistech@munargyle.com>
Cc: [redacted]
Subject: RE: Aquaculture Development Area Pilot Project
Sensitivity: Confidential

Thank you. I appreciate it.

[redacted]

From: Alix d'Entremont <gistech@munargyle.com>
Sent: November 3, 2022 12:43 PM
[redacted]
Subject: RE: Aquaculture Development Area Pilot Project
Sensitivity: Confidential

[redacted] I'm letting you know that I've received your email and will most certainly respect your request for confidentiality. Thank you very much for providing your feedback in writing which will be forwarded onto the NS Department of Fisheries and Aquaculture project team and will be included in some form in the stakeholder report for the Minister. Your name will be removed from the feedback that you've shared.

[redacted]
Sent: Thursday, November 3, 2022 12:50 PM
To: Alix d'Entremont <gistech@munargyle.com>
[redacted]
Subject: RE: Aquaculture Development Area Pilot Project
Importance: High
Sensitivity: Confidential

"Confidential"

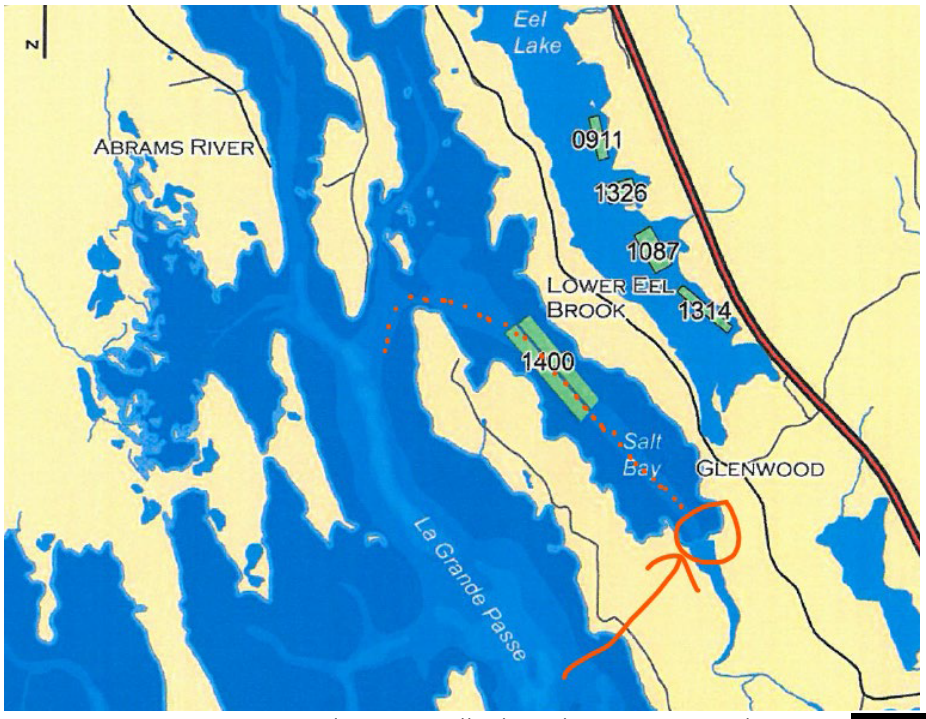
Hi Alix,

Here is a summary of our concerns and recommendations for expanding aquaculture in Lobster Bay as discussed last week by phone.

In principle we support scaling of the fishery as long as it is balanced with tourism, recreational boating, swimming, and water access. New farms should be established in areas not populated with residential houses along the water.

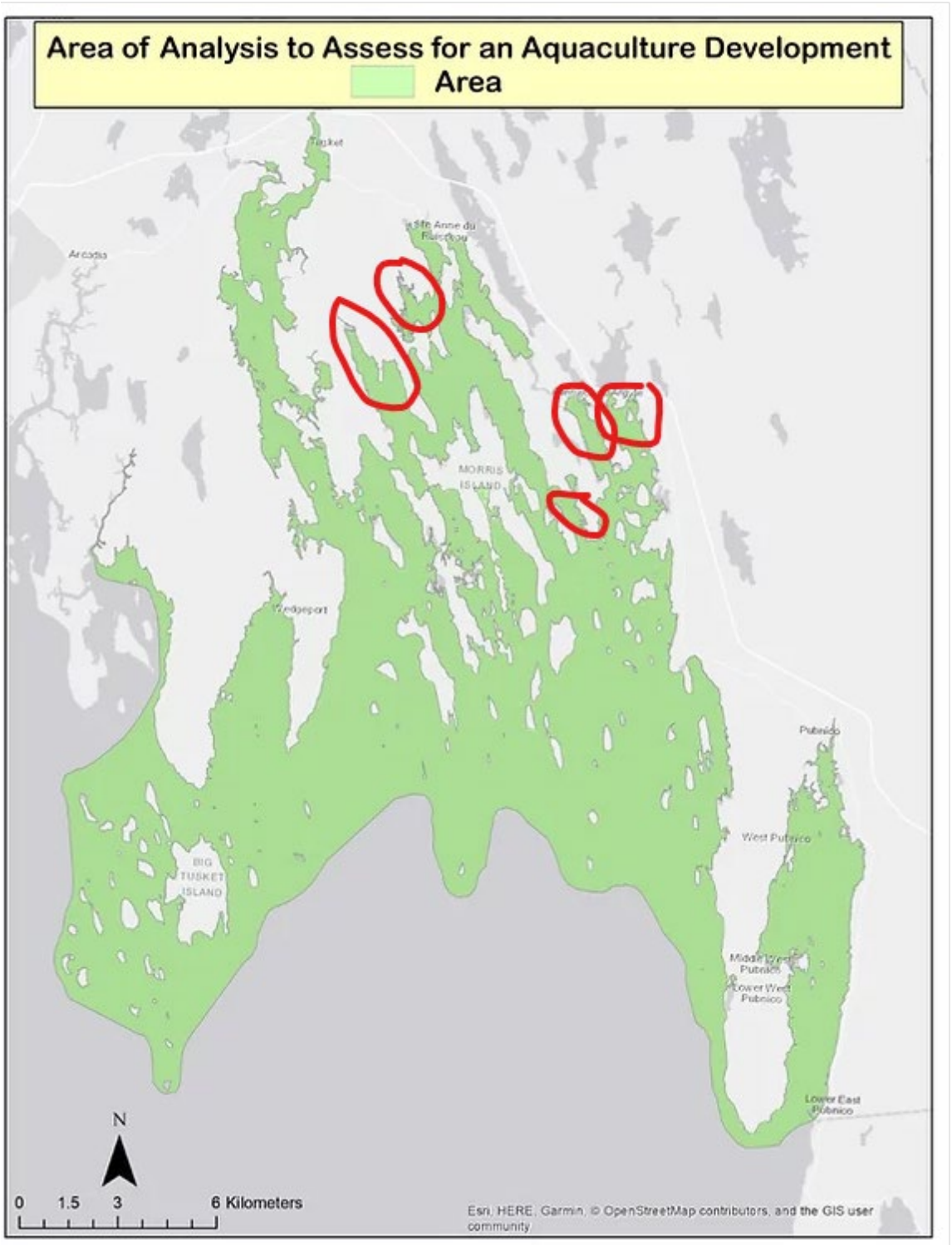
1. Archaeological Sites: Greater analysis needs to be done on potential and existing archeological sites. As an example, the oyster farm in Salt Bay has an Acadian Aboiteau (dyke) as circled on the map below. We are not aware if this has been deemed a historic site or not, but the dyke is likely in the range of 300+ years old (built by the original French settlers in the region) and locally known as "the dyke" in our community. Please refer to more information here: https://www.acadian.org/history/acadian-innovations/acadian-aboiteau-dyke/ The Government of Canada recognizes the national historic significance of the Acadian aboiteau system. In addition, Roberts Island along Salt Bay has shellfish (oysters, clams, etc.) middens. Shell middens are cultural spaces located on the mainland and island coasts and were

created by Nova Scotia's indigenous people during thousands of years of coastal occupation. These middens are believed to be over 5000 years old. This is an example of inadequate research being done before approval of a license and lease.



2. Locations: As mentioned on our call, I bought my summer house in [redacted] due to its privacy and access to an uninterrupted wilderness and ocean landscape. I now look at a floating commercial fishery in Salt Bay that started along one side of Eel brook which has now expanded to the main channel (deepest water) required for recreational boating – and continues towards the Roberts Island side. In summary, this farm has now overtaken most of Salt Bay. There is a boating access channel required as per the lease and license, but the visibility of a commercial fishery (and floating processing plant) from my house now reduces my property value. Frankly, I'm not pleased about this. At the same time my taxes are increasing. The municipality can't have it both ways. In addition, I now see farms being established in Grand Passe and alongside Calf Island near Big Sluice. This pass is the main thoroughfare for boating to and from the open ocean. Why are farms being approved in these areas when many other areas are more appropriate and located away from houses or recreational boating and swimming?
    a. NIMBY (not in my backyard): We'd like to see the municipality and government encourage fishers to establish farms in those areas of Salt Bay that are not residential or used for recreational boating and fishing to the same extent as seen in Grand Passe, Big Sluice, Calf Island, and Salt Bay. More appropriate areas include those circled on the map below; Cats Passe, Fools Passe, Amiraults Hill/Sluice Point, Glenwood Bay, Argyle River, and the bay between Widgigum islands and Abrams River. We know applicants seek easy access to the ocean which is why they desire Salt Bay and Grand Passe. It's obvious. Of course they do. But commercialization should be encouraged in areas placed away from the community and residences.
        i. Salinity and Water Depth/Movement: Applicants will suggest the salinity is different in these areas, but I would present that seawater is ~35% parts per thousand in any area of Salt Bay. Eel lake is brackish with lower salinity,

but this is where oyster farming first started in the area. Oysters will grow in any of the places mentioned. Water depth alongside Grand Passe/Roberts island, and Salt Bay is relatively shallow. Any chart or sonar will show it's similar in the areas noted. But fishers won't desire these areas because the access is less convenient. (Residential access has made these areas convenient). Unfortunately, ocean access should be an obstacle for any commercialization, and they need to factor this into their costs. I simply don't want to see them or have them in my back yard. Finally, the movement of water is tidal as we know. On average it's about a 12' tide between low and high. That tidal range doesn't change in any of the areas noted in the bay. So in summary, we'd like to see any expansion of aquaculture move to areas we don't use or see to a great extent. That outcome balances commercial fishing with tourism, and recreational swimming and boating.



I've raised similar concerns with Mr. Robert Ceschiutti from the NS Dept of Fisheries and Agriculture and will likely forward this email to our MPP Colton Leblanc for info. Thank you for taking in our concerns and recommendations. We'd be happy to continue to be a community representative to consult -in order to realize a balance of Aquaculture development with residents. Could I request that this correspondence remain confidential. The views, concerns, suggestions, and recommendations can be shared with internal and external stakeholders but would ask that you/the municipality do not divulge me as the source. I'm not interested in being labelled an adversary of Aquaculture development as that is not accurate or true. We're just seeking "the right" balance.

Best regards,

[redacted]

From: Alix d'Entremont <gistech@munargyle.com>
Sent: November 3, 2022 8:00 AM
[redacted]
Subject: RE: Aquaculture Development Area Pilot Project

[redacted]

I'm emailing to make sure that you email me your feedback regarding the Aquaculture Development Area project. Thanks.

[redacted]
Sent: Monday, October 17, 2022 12:21 PM
To: Alix d'Entremont <gistech@munargyle.com>
[redacted]
Subject: Re: Aquaculture Development Area Pilot Project

Thank you, much appreciated. I'll be in touch next week when I return [redacted].

Regards

[redacted]

> On Oct 17, 2022, at 4:28 PM, Alix d'Entremont <gistech@munargyle.com> wrote:
>
> Yes, we can certainly have a phone conversation in the next couple of weeks. If you are interested, it would be great to get some comments from you in writing. You can either respond to this email, or fill out the feedback form at www.munargyle.com/feedback. We certainly do want to ensure that your specific concerns are accurately recorded and passed on to the NS Dept. of Fisheries and Aquaculture.
>
> I have not interacted with Mr. Ceschiutti in relation to this Aquaculture Development Area project, however, I have been working closely with other staff members from the department for the last 3 years.

[redacted]
Sent: Monday, October 17, 2022 11:20 AM
To: Alix d'Entremont <gistech@munargyle.com>
[redacted]
Subject: Re: Aquaculture Development Area Pilot Project

I'm working in the [redacted] and won't be able to attend on Oct 19th. Can I call you next week to ensure any community concerns or suggestions are received and acknowledged?

I've had an ongoing dialogue with Mr. Robert Ceschiutti From the NS Dept of Fisheries and Agriculture. Has he or the Dept. spoken with you?

Regards

Sent from my iPhone

> On Oct 17, 2022, at 2:21 PM, Alix d'Entremont <gistech@munargyle.com> wrote:
>
> [redacted]
>
> Thank you for your email. For our records, how did you learn of this project?
>
> The Municipality will be hosting two Open Houses related to the Aquaculture Development Area (ADA) pilot project on Wednesday, October 19. These will be in-person informal sessions open to the public where representatives of the Municipality, the Nova Scotia Department of Fisheries and Aquaculture and the Centre for Marine Applied Research will be available to answer questions. We are not offering an online option for the Open Houses. To inform visitors, we will offer a short looping video that explains why the Municipality is working on this project and provides basic details on the ADA. These videos are also available at https://www.aquacultureargyle.com. Maps of the potential areas and informational boards (attached to this email) will be displayed. The public will be able to provide feedback directly to us or leave written comments.
>
> Below are the locations and times.

Glenwood Hall
5832 Highway 3, Glenwood
1:00 pm to 3:00 pm
October 19, 2022

Argyle Municipal Office
5 J.E. Hatfield Crt, Tusket
6:00 pm to 8:00 pm
October 19, 2022

If you can't make the October 19 Open Houses, details and videos related to the project are available at https://www.aquacultureargyle.com. We are also offering public maps of the potential ADA locations and an online feedback form through our website at www.munargyle.com/feedback.

Please let me know if you have any questions.

Alix d'Entremont
GIS Technician
Municipalities of
Argyle and Yarmouth

5 Rue J.E. Hatfield Court
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office [redacted]
gistech@munargyle.com

[redacted]
Sent: Monday, October 17, 2022 8:51 AM
To: Alix d'Entremont <gistech@munargyle.com>
[redacted]
Subject: Inquiry

Good day,

I'm learning that Argyle is looking into speeding up the development

of oyster expansion.

I live on Lobster Bay as a resident and would appreciate if I could be represented in a community forum when appropriate or the opportunity presents itself.

I'm generally [redacted] and may not be able to attend meetings in person. Will I be able to attend virtually?

Thank you

[redacted]

Sent from my iPhone

From: Alain Muise
To: Charlene LeBlanc
Subject: RE: Aquaculture/Business park on the Sea
Date: May 1, 2018 7:20:00 PM

Non Responsive

On May 1, 2018, at 6:34 AM, Charlene LeBlanc <CLeblanc@munargyle.com> wrote:

Good morning.
Today we had plans to get some more water testing done, but had to postpone until the weather is more agreeable. It's impaerativbe that we get out in May so we can map the lobster buoys.

We have added 3 sites to the next two round of sampling; one site is in Salt Bay (may as well sample that water as the oysters there are growing faster than Eel Lake, and we will know how the other sites compare), and the other is just outside Salt Bay.

The third site is one that a potential investor and I went out to have a look at last week. He is interested in scallop ranching, Kelp, and oysters. He has the means and boat. He is eager and "has his running shoes on and tied". We had a conference call with Boutouche Bay industries and we had initially planned to go visit them and a few farmers in August, but he now wants to go in May.

I have a few questions:

1. Who do we now see for the initial meeting regarding a lease, now that Vicki is not there?
2. Is there anything we can assist you with when it comes to the province/Argyle "preapproved lease" project?
3. Is there scallop ranching in our province?

Thanks !

CHARLENE LEBLANC
Community Development Officer



27 Courthouse Road / PO Box 10
Tusket, Nova Scotia B0W 3M0
[redacted] [redacted] [redacted]
cleblanc@munargyle.com
www.munargyle.com

From: Alain Muise
To: [redacted]
Cc: Charlene LeBlanc; Bruce.Hancock@novascotia.ca; Richard Donaldson
Subject: Re: Aquaculture/Business park on the Sea
Date: June 1, 2018 12:57:25 PM

Non Responsive

[redacted]

[redacted]

[redacted]

Non Responsive [redacted]

[redacted]

[redacted]

[redacted]

[redacted]

From: [redacted] <[redacted]
Sent: Tuesday, May 01, 2018 3:58 PM
To: Charlene LeBlanc <cleblanc@munargyle.com>
Cc: Bruce.Hancock@novascotia.ca; Alain Muise <admuise@munargyle.com>
Subject: Re: Aquaculture/Business park on the Sea

Hi Charlene,

Thank you for the update. I think we can help on all the fronts outlined. As for contact for the pre-option meeting for a lease you can contact Nathaniel Fiendel who replaced me as manger of aquaculture development (he can be reached at [redacted] This would be for leases not involved in the potential aquaculture development area.

For the aquaculture development area work, as a first step, we can set a meeting with our Minister for your warden and team to come in and discuss your interest in pursuing this awesome development tool for the first time in your region. If you can provide me with dates and a list of attendees I can liaise with the minister's office to book this initial meeting in. I think it would also be wise for you and I to sit down and go through the information you've collected up to this point and learn what additional information will be needed that we can help with.

Scallop ranching is something that has been discussed for several years but true ranching incorporated with the scallop fishery activities, such as what is done in st. Pierre Miquelon is not done here. There was actually a workshop and report produced in 2013 or 2014 by the AANS to look at viability of ranching along fundy coast. I can try and track that down for you. Bruce should have some insights too given his experience in scallop aquaculture. Again I think this is a good more in depth conversation for us to have face to face or over the phone. Nathaniel may have insights as well as I think there has been an increase in interest as of late.

I hope this helps, let me know when a sit down to chat about all of this works for you.

Thanks!
[redacted]

Sent from my iPhone

On May 1, 2018, at 6:34 AM, Charlene LeBlanc <CLeblanc@munargyle.com> wrote:

> Good morning.
> Today we had plans to get some more water testing done, but had to postpone until the weather is more agreeable. It's impaerativbe that we get out in May so we can map the lobster buoys.
>
> We have added 3 sites to the next two round of sampling; one site is in Salt Bay (may as well sample that water as the oysters there are growing faster than Eel Lake, and we will know how the other sites compare), and the other is just outside Salt Bay.
>
> The third site is one that a potential investor and I went out to have a look at last week. He is interested in scallop ranching, Kelp, and oysters. He has the means and boat. He is eager and "has his running shoes on and tied". We had a conference call with Boutouche Bay industries and we had initially planned to go visit them and a few farmers in August, but he now wants to go in May.
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> I have a few questions:
> 1. Who do we now see for the initial meeting regarding a lease, now that Vicki is not there?
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> 3. Is there scallop ranching in our province?
>
> Thanks !

CHARLENE LEBLANC
Community Development Officer
27 Courthouse Road / PO Box 10
Tusket, Nova Scotia B0W 3M0
[redacted]
cleblanc@munargyle.com
www.munargyle.com

From:	Alain Muise
To:	Charlene LeBlanc
Subject:	RE: Aquaculture/Business park on the Sea
Date:	May 1, 2018 7:20:08 PM

Great work Charlene!

From: Charlene LeBlanc
Sent: Tuesday, 1 May 2018 4:28 PM
To: [redacted] <[redacted]
Cc: Bruce.Hancock@novascotia.ca; Alain Muise <admuise@munargyle.com>
Subject: RE: Aquaculture/Business park on the Sea

Non Responsive [redacted]

[redacted]

[redacted]

[redacted]

[redacted]

[redacted]

From: Alain Muise
To: Charlene LeBlanc
Subject: RE: aquaculture lease for sale
Date: May 10, 2018 11:30:30 AM

Non Responsive [redacted]

From: Chris Frotten
To: Charlene LeBlanc
Subject: RE: GPS coordinates for some
Date: August 7, 2018 3:38:25 PM

[redacted]

Non Responsive [redacted]

[redacted]

[redacted]

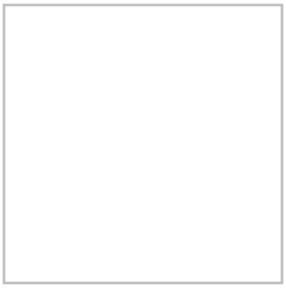


[redacted]

From: Charlene LeBlanc
Sent: Tuesday, August 07, 2018 3:27 PM
To: Chris Frotten <cfrotten@munargyle.com>
Subject: GPS coordinates for some

Salt Bay	43.815776, -65.914171
Widgegums	43.809661, -65.926198
Indian Bay	43.784409, -65.940242
Roberts Isl	43.781267, -65.897833
Calf	43.753272, -65.884213
Glenwood Bay	43.775310, -65.867771

CHARLENE LEBLANC
Community Development Officer
27 Courthouse Road / PO Box 10
Tusket, Nova Scotia B0W 3M0
[redacted]
cleblanc@munargyle.com



www.munargyle.com

From: Valerie Lalande
To: Charlene LeBlanc; [redacted]
Cc: [redacted]
Subject: RE: Friday water testing
Date: November 7, 2018 3:04:10 PM
Attachments: Outlook-1473790338.png

Sounds good, thanks Charlene!

Valérie Lalande, MSc
Directrice, Laboratoire d'innovation en science et en industrie
Agente de liaison avec l'industrie
902-260-3110
77, Ch. C. Saulnier, Saulnierville (Nouvelle-Écosse) B0W 2Z0
www.usainteanne.ca | Facebook | Twitter | Youtube



From: Valerie Lalande
To: Charlene LeBlanc
Subject: RE: Friday water testing
Date: November 7, 2018 3:33:03 PM
Attachments: image001.png
Outlook-1473790338.png

No, but i'll explain to him

Valérie Lalande, MSc
Directrice, Laboratoire d'innovation en science et en industrie
Agente de liaison avec l'industrie
902-260-3110
77, Ch. C. Saulnier, Saulnierville (Nouvelle-Écosse) B0W 2Z0
www.usainteanne.ca | Facebook | Twitter | Youtube



De : Charlene LeBlanc <CLeblanc@munargyle.com>
Envoyé : 7 novembre 2018 15:32
À : Valerie Lalande
Objet : RE: Friday water testing

Yes it is!
Does [redacted] know where that is?

From: Valerie Lalande <Valerie.Lalande@usainteanne.ca>
Sent: Wednesday, November 07, 2018 3:09 PM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: RE: Friday water testing

Just as a confirmation, is that wharf on Beech Ln? The one near Nolan's site in Salt Bay?

Valérie Lalande, MSc
Directrice, Laboratoire d'innovation en science et en industrie
Agente de liaison avec l'industrie
902-260-3110
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De : Charlene LeBlanc <CLeblanc@munargyle.com>
Envoyé : 7 novembre 2018 15:03
À : Valerie Lalande; [redacted]
Cc : [redacted]
Objet : Friday water testing

We will leave at 10:30 from Salt Bay wharf.
[redacted] can come here at 10am and we will go together.
We are only doing 6 sites, and they are all close by.

CHARLENE LEBLANC
Community Development Officer
27 Courthouse Road / PO Box 10
Tusket, Nova Scotia B0W 3M0
[redacted]
cleblanc@munargyle.com
www.munargyle.com

From: Valerie Lalande
To: Charlene LeBlanc
Subject: RE: regardes!
Date: November 28, 2018 2:09:08 PM
Attachments: image001.png
Outlook-1473790338.png

Hahaha great!

Valérie Lalande, MSc
Directrice, Laboratoire d'innovation en science et en industrie
Agente de liaison avec l'industrie
902-260-3110
77, Ch. C. Saulnier, Saulnierville (Nouvelle-Écosse) B0W 2Z0
www.usainteanne.ca | Facebook | Twitter | Youtube

De : Charlene LeBlanc <CLeblanc@munargyle.com>
Envoyé : 28 novembre 2018 14:08
À : Valerie Lalande
Objet : RE: regardes!

Yes, exactly. Well I can't rest until I find out. I just cleaned it all up. So I am headed back somewhere! lolI will let you know.

From: Valerie Lalande <Valerie.Lalande@usainteanne.ca>
Sent: Wednesday, November 28, 2018 2:06 PM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: RE: regardes!

Okay!... And does it work now with that change?! The Chlorophyll probe uses fluorescence and without the black cap probably there was too much interference to have a read...

Valérie Lalande, MSc
Directrice, Laboratoire d'innovation en science et en industrie
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From:	Valerie Lalande
To:	Charlene LeBlanc
Subject:	RE: regardes!
Date:	November 28, 2018 3:13:38 PM
Attachments:	image001.png Outlook-1473790338.png

Ok!

Valérie Lalande, MSc
Directrice, Laboratoire d'innovation en science et en industrie
Agente de liaison avec l'industrie
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De : Charlene LeBlanc <CLeblanc@munargyle.com>
Envoyé : 28 novembre 2018 15:12
À : Valerie Lalande
Objet : RE: regardes!

Perfect, I work at the [redacted] in the morning and come in at 12:30

From: Valerie Lalande <Valerie.Lalande@usainteanne.ca>
Sent: Wednesday, November 28, 2018 3:09 PM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: RE: regardes!

Super! It'll probably be Monday. So far weather seems good. I have to confirm with Colton on Sunday, so I'll let you know then!

Cheers,
Valerie

Valérie Lalande, MSc
Directrice, Laboratoire d'innovation en science et en industrie
Agente de liaison avec l'industrie
902-260-3110
77, Ch. C. Saulnier, Saulnierville (Nouvelle-Écosse) B0W 2Z0
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De : Charlene LeBlanc <CLeblanc@munargyle.com>
Envoyé : 28 novembre 2018 15:03
À : Valerie Lalande
Objet : RE: regardes!

That would be great. Monday afternoon, or Tuesday Morning . I leave for Halifax at noon.
Charlene

From: Valerie Lalande <Valerie.Lalande@usainteanne.ca>
Sent: Wednesday, November 28, 2018 2:29 PM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: RE: regardes!

Yay it worked! Absolutely, if you can get a reading in salt bay it would be great!
The best for me would be to take couple (2-3) samples from different areas when the probe is used there as well. That way the correlation is stronger.

I'm going to Eel Lake Monday or Tuesday next week. Any chance you'd have availability then? I could grab couple samples while you measure with the probe: Could be in Salt bay, eel lake and another place.

Valerie

Valérie Lalande, MSc
Directrice, Laboratoire d'innovation en science et en industrie
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De : Charlene LeBlanc <CLeblanc@munargyle.com>
Envoyé : 28 novembre 2018 14:22
À : Valerie Lalande
Objet : Re: regardes!

It worked. My that was so forgetful of me. 28.89. Not that it means much without you having a reading. Lol. I might go to salt bay again on way home.

Sent from my iPhone

On Nov 28, 2018, at 2:09 PM, Valerie Lalande <Valerie.Lalande@usainteanne.ca> wrote:

> Hahaha great!
>
> **Valérie Lalande, MSc**
> Directrice, Laboratoire d'innovation en science et en industrie
> Agente de liaison avec l'industrie
> 902-260-3110
> 77, Ch. C. Saulnier, Saulnierville (Nouvelle-Écosse) B0W 2Z0
> www.usainteanne.ca | Facebook | Twitter | Youtube
> <Outlook-1473790338.png>

De : Charlene LeBlanc <CLeblanc@munargyle.com>
Envoyé : 28 novembre 2018 13:59
À : Valerie Lalande

Objet : RE: regardes!

Valerie ! I bet I figured it out! I went to salt bay, Raynardton dam, a couple ditches, a U fish pond… no reading anywhere.
Came back and started to clean it and it dawned on me.
I forgot to put the black end cap on the metal probe.
It was in my case. I took it off to replace the cap on the pH electrode.
I bet it was too light to read chlorophyll.
Charlene

From: Valerie Lalande <Valerie.Lalande@usainteanne.ca>
Sent: Wednesday, November 28, 2018 10:35 AM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: RE: regardes!

Haha perfect!

Valérie Lalande, MSc
Directrice, Laboratoire d'innovation en science et en industrie
Agente de liaison avec l'industrie
902-260-3110
77, Ch. C. Saulnier, Saulnierville (Nouvelle-Écosse) B0W 2Z0
www.usainteanne.ca | Facebook | Twitter | Youtube
<image001.png>

De : Charlene LeBlanc <CLeblanc@munargyle.com>
Envoyé : 28 novembre 2018 09:53
À : Valerie Lalande
Objet : RE: regardes!

I called Colton. I will go to salt Bay later and so a reading there… and check it before I leave. lol

---

From: Valerie Lalande <Valerie.Lalande@usainteanne.ca>
Sent: Wednesday, November 28, 2018 9:35 AM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: RE: regardes!

Weird, 0µg/L ?!

There is certainly phytoplankton in the water... However, it can be at a very low concentration due to the rain and high sea level.
I'll check with [redacted] results for the microscopy.

Val

Valérie Lalande, MSc
Directrice, Laboratoire d’innovation en science et en industrie
Agente de liaison avec l'industrie
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<image001.png>

From: Valerie Lalande
To: Charlene LeBlanc
Subject: RE: reminder
Date: December 10, 2018 3:43:58 PM
Attachments: Outlook-1473790338.png
Argyle - Results Nov 9th.pdf

Hi Charlene,

Thanks for the reminder; I already had an email drafted that was still in my Outbox. Sorry about that!

As for the water samples taken last week, the phytoplankton numbers are lower than what we see usually:
Eel Lake: 40X 96 u/ml 400X 317 u/ml
Salt Bay: 40X 48 u/ml 400X 538 u/ml
Tusket: 40X 16 u/ml 400X 197 u/ml

Cheers,
Valerie

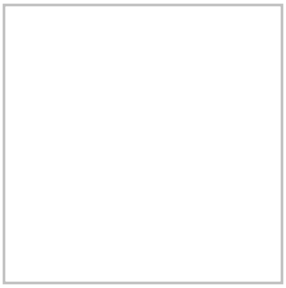
Valérie Lalande, MSc
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Université Sainte Anne

De : Charlene LeBlanc <CLeblanc@munargyle.com>
Envoyé : 10 décembre 2018 15:08
À : Valerie Lalande
Objet : reminder

We have yet to receive the water results from the trip with [redacted] in [redacted] boat.
It was Nov 9th.

CHARLENE LEBLANC
Community Development Officer
27 Courthouse Road / PO Box 10
Tusket, Nova Scotia B0W 3M0



[redacted] [redacted] [redacted]
cleblanc@munargyle.com
www.munargyle.com

From: [redacted]
To: Charlene LeBlanc
Subject: Re: Aquaculture
Date: March 18, 2019 3:47:30 PM

Sounds perfect to me. And I agree that it is all voluntary and any risk is on myself. :)

On Mon, Mar 18, 2019 at 3:35 PM Charlene LeBlanc <CLeblanc@munargyle.com> wrote:

> Yes, That sounds super.
>
> Bring boots.
>
> We will travel to Morris Island, surette's Island, Camp Cove, Eel lake, Salt Bay, Pubnico Harbour, Pond Road, and Roberts Island.
>
> If it gives rain, we will go on Wednesday the 3rd.
>
> This trip with me is totally volunteer and any risks associated would be on yourself, not the municipality. I assume you agree with this?
>
> (Sorry to sound so strict there… hehe)
>
> **From:** [redacted] <[redacted]
> **Sent:** Monday, March 18, 2019 3:24 PM
> **To:** Charlene LeBlanc <CLeblanc@munargyle.com>
> **Subject:** Re: Aquaculture
>
> Hello,
>
> I am available on Friday April 5th at 9am ! Would you like it if I met you at your office??
>
> Meghan
>
> On Mon, Mar 18, 2019 at 1:59 PM Charlene LeBlanc <CLeblanc@munargyle.com> wrote:
>
> > I have no news, but I am going out Friday April 5th.

I usually go out in the morning, like 9 am, but I can go in the afternoon, whatever works best for you.

I don't think we will have access to a boat, but we can test off of the wharves, and wade into the water.

Charlene

From: [redacted] <[redacted]
Sent: Monday, March 18, 2019 1:53 PM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: Aquaculture

Hello Charlene,

This is [redacted] I just thought I would keep in touch to see how everything is going with your aquaculture projects. I am still extremely interesting in the job opportunity and if there is any news on that matter, please let me know.

I am also interesting in taking a day out to see exactly what it is you do on the job.

Thanks again for this opportunity,

[redacted]

From: Charlene LeBlanc
To: Chris Frotten
Subject: aquaculture presentation.docx
Date: June 5, 2018 2:55:00 PM
Attachments: aquaculture presentation.docx

From: Charlene LeBlanc
To: [redacted]
Cc: [redacted]
Subject: RE: Introductions – [redacted] Team
Date: September 19, 2018 10:56:00 AM
Attachments: Water analysis site 2, 3, and 4.xlsx
aquaculture presentation.docx
Warden aquaculture.docx
Salt Bay.docx
data.xlsx
Argyle - Results June 20th.pdf
10 sites aquaculture.docx
Business Park Sea update.docx

I have attached a bunch of files. The "warden docx" is simply something I wrote for him to present at the aquaculture conference in January.
The "aquaculture presentation docx" is simply the guideline I wrote for the prezi presentation shown to the aquaculture provincial team in June.

Nice meeting you today
Charlene

From: [redacted] <[redacted]
Sent: Tuesday, September 18, 2018 7:38 AM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Cc: [redacted] <[redacted]
<[redacted] <[redacted]
<[redacted]
Subject: Re: Introductions – [redacted] Team

Non Responsive [redacted]

[redacted]

[redacted] On Fri, Sep 14, 2018 at 4:14 PM, Charlene LeBlanc <CLeblanc@munargyle.com> wrote:

From: Charlene LeBlanc
To: [redacted]
Cc: Hans Pfeil; Alix d"Entremont; [redacted]
Subject: RE: water testing
Date: October 21, 2019 4:08:00 PM

Perfect. I can be flexible with those dates.

I am available the early morning of the 24th, high tide is around 7:30am, but for Salt Bay we need high tide to get there. It's a bit rough in that passage going from around the Widgegums into Salt Bay.

Charlene

From: [redacted]
Sent: Monday, October 21, 2019 4:01 PM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Cc: Hans Pfeil <hpfeil@munargyle.com>; Alix d'Entremont <gistech@munargyle.com>; [redacted]
<[redacted]
Subject: Re: water testing

Hi Charlene,

Myself and [redacted] are basically the only two legal charter vessels around here. I am busy but have cc'ed [redacted] who might be able to help.

[redacted]

Sent from my iPhone

> On Oct 21, 2019, at 3:57 PM, Charlene LeBlanc <CLeblanc@munargyle.com> wrote:
>
> [redacted]
>
> I am looking to hire someone for a means of transportation to a about 7 sites in the water (Aquaculture Dev Area). It doesn't take long usually; 2.5-3 hours.
> Calf Island, Bar Rock, Fox Island, Salt Bay, the Basin near Morris Island, a spot around Mike's Island and one in the Indian Sluice. High tide preferred, or low going up.
>
> I would like to go around Oct 28- November 1st. Tides are high morning/early afternoon.
> Next year the municipality will have to make more formal legal arrangements for bringing staff onto the water for the purpose of water testing.
>
> CHARLENE LEBLANC
> Community Development Officer
> 27 Courthouse Road / PO Box 10
> Tusket, Nova Scotia B0W 3M0



[redacted] [redacted] [redacted]

cleblanc@munargyle.com

www.munargyle.com

From: Charlene LeBlanc
To: [redacted]
Subject: October 29 2019 water test
Date: October 30, 2019 8:32:00 AM
Attachments: October 29 2019 water test.docx

I will be back out once a month April-Oct 2020.

Charlene

From: Charlene LeBlanc
To: Alain Muise
Subject: Water testing
Date: November 28, 2019 11:53:44 AM

[redacted].

Wanted to tell you, (although I was tempted to keep it from you), that next week I will be going in a boat , 2 boats actually, one in Eel lake and one in Salt Bay, with Colton d'Eon to take the water temperature at the bottom of their 3 sites before they sink their oysters. Temp is crucial and If you frig up, you can kill them.

I will be wearing my pfd as usual and will be out for less than an hour.
I was thinking that I will sign a little waiver of some kind to say that I take full responsibility and won't sue anyone if I get hurt or killed.

I am not planning to tell [redacted] as he thinks I am done for the year (and I did too) and now that I am downstairs I can likely just slip out unnoticed.

Have a great day and enjoy demain as well :)

Charlen

Sent from my iPhone

From: Charlene LeBlanc
To: Alix d"Entremont
Subject: FW: Revised Meeting date
Date: July 10, 2019 12:56:20 PM

Can you tell me the high tide times of the following proposed dates? We are looking to go to visit the barge at Salt Bay and I am wondering the best time to arrange the visit there?

Charlene

From: [redacted]
Sent: Wednesday, July 10, 2019 12:36 PM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: Revised Meeting date

Charlene,
Good Afternoon!

[redacted], we will be unable to meet with you on Tuesday July 30.
Can we change to Monday July 29 or Thursday August 01st?
We apologize for the change, please let us know your comments.
Thank you
Best Regards,

--

[redacted]

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From: [redacted]
To: Alix d"Entremont
Subject: RE: Mun. of Argyle Aquaculture Development Area Data
Date: January 29, 2020 1:45:46 PM

Thanks Alix.

Cheers,
[redacted]

From: Alix d'Entremont <gistech@munargyle.com>
Sent: Wednesday, January 29, 2020 9:29 AM
To: [redacted] <[redacted]>
Cc: Charlene LeBlanc <CLeblanc@munargyle.com>; 'King, Matthew S (Matthew.King@novascotia.ca)' <Matthew.King@novascotia.ca>
Subject: Mun. of Argyle Aquaculture Development Area Data

Attached is:

- **Water Testing Data.xlsx** by Université Sainte-Anne and the Municipality of the District of Argyle for 20 sites with a range of June 15, 2017 to Dec 4, 2019 (Temperature, pH, Dissolved Oxygen, Salinity, Chlorophyll, Phytoplankton…)
- **MapPoints.kmz** a KMZ file of the data in the previous bullet
- **Water Temperature-Old Pt Channel and Tucker Island** by NS Dept. of Fisheries and Aquaculture for two sites (Old Pt. Channel and Tucker I.) with a range of Feb 19, 2016 to Mar 20, 2018.
- **Preliminary Feasibility Assessment for Tidal Energy Development in MoDA** with flow speeds (pp. 19-20)

Will be delivered on Feb 4, 2020 by Charlene:

- Underwater GoPro video of the 4 corners and transects along the middle of 3 lease sites currently being applied for by [redacted] (Bar Rock, Calf Island and Fox Island).
- UAV Video of Salt Bay, Widgegums, Indian Bay, Indian Suice Bridge, Indian Sluice Bay, Bar Rock, Calf Island, Mikes Island, and Glenwood Bay.

Alix d'Entremont
GIS Technician
Municipalities of Argyle and Yarmouth

27 Courthouse Road
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office +1 902 648 3166
Mobile [redacted]
gistech@munargyle.com

From: Charlene LeBlanc
To: Alix d"Entremont
Subject: Re: Pubnico Harbour Derelict Aquaculture Gear
Date: August 14, 2020 2:14:27 PM
Attachments: image001.png

Yeah. I see.
So we know the coordinates and will have to avoid those areas in the ADA.
What were those things? Are they in salt bay? Will they do anything to oysters / gear ?
Charlene

Sent from my iPhone

> On Aug 14, 2020, at 2:10 PM, Alix d'Entremont <gistech@munargyle.com> wrote:
>
> You don't see much in the videos. Here is a photo from the 3rd Yellow Buoy (the one that is submerged most of the time). There is certainly lots of stuff on the line. There are also many things in the water, maybe like the skinny animals that were on the boat. The water is not as clear as the other places that we've done underwater video. There is light at the bottom, but there are so many things in the water that you can't see very far.
>
> <image001.png>
>
> **Alix d'Entremont**
> *GIS Technician*
> Municipalities of Argyle and Yarmouth
>
> 27 Courthouse Road
> Tusket, Nova Scotia
> B0W 3M0, P.O. Box 10
>
> Office +1 902 648 3166
> Mobile [redacted]
> gistech@munargyle.com

From: Charlene LeBlanc
To: John Sullivan; Bonnie Durkee; Chantalle Newell; Alix d"Entremont; Eilidh Canning
Subject: This morning
Date: November 5, 2021 7:55:26 AM

I am testing water in a few minutes at salt bay and eel lake.
I will message someone when i am done.

Sent from my iPhone

>>>>>
>>>>>
>>>>> From: [redacted]
>>>>> <[redacted] mailto:[redacted]
>>>>> Sent: Wednesday, April 17, 2024 11:41 AM
>>>>> To: Alain Muise <admuise@munargyle.com<mailto:admuise@munargyle.com>>;
>>>>> Alix d'Entremont <gistech@munargyle.com<mailto:gistech@munargyle.com>>
>>>>> Cc: info@coltonleblanc.ca<mailto:info@coltonleblanc.ca>; Danny Muise
>>>>> <DMuise@munargyle.com<mailto:DMuise@munargyle.com>>; [redacted]
>>>>> ([redacted] mailto:[redacted]
>>>>> <[redacted] mailto:[redacted]
>>>>> [redacted] mailto:[redacted]
>>>>> [redacted] mailto:[redacted] Nicole Albright
>>>>> <NAlbright@munargyle.com<mailto:NAlbright@munargyle.com>>; Scott
>>>>> Surette <ssurette@munargyle.com<mailto:ssurette@munargyle.com>>
>>>>> Subject: RE: Aquaculture Development Area Pilot Project
>>>>> Importance: High
>>>>> Sensitivity: Confidential
>>>>>
>>>>> You don't often get email from
>>>>> [redacted] mailto:[redacted] Learn
>>>>> why this is important<https://aka.ms/LearnAboutSenderIdentification>
>>>>> Hi Alain,
>>>>>
>>>>> I would like to speak to you today if you can make time, please. If you propose a time I can ensure I will be free and call your office directly.
>>>>>
>>>>> In addition to your confirmations below:
>>>>>
>>>>>
>>>>> 1. Please ensure my [redacted] ([redacted] cc'd) and I are provided the dates of the next public consultation. Further, could I please request we have the ability to dial in virtually via Zoom or Teams as my work takes me outside Canada working abroad.
>>>>> 2. Please forward any data or studies related to the proposed site next to my house. If held by the ministry, please request this be provided. It should be publicly available. If I need to make a FOIPOP/access to information request I will, but if required, -In fairness, I will ask you to pause the application and approval process until I receive this information.
>>>>> 3. As you collect the remaining data below, again please push pause on the application process and extend any deadlines or dates to allow me to prepare and absorb the material. This is a formal request.
>>>>> 4. If my concerns were provided to the ministry as noted below, I will ask you send me the report/documentation that was provided noting my concerns. I would like to see the data and evidence that this was done appropriately. If FOIPOP is required, again please advise and I will take steps to do so. Any time required to obtain this information should be added in equivalent time to extend the dates for the lease application and approval process. We can discuss today by phone but will ask you to please confirm by email for the record.
>>>>>
>>>>> In summary, the Argyle municipal office and elected officials work for the community, This means both commercial and residential interests should be balanced and satisfied as the critical stakeholders for your mission and mandate. I did not see that happen here. I am far from being reassured. There is a real perception of conflict here where ADA has tipped the balance to favour the interests of industry at the expense of constituents like us. As such, I will also seek calls with my councillor Nicole Albright and my Warden, Mr. Muise to ensure this balance is achieved to our satisfaction.
>>>>>
>>>>> Thank you for the time to address my concerns. It is appreciated.
>>>>>
>>>>> Regards,
>>>>>
>>>>> [redacted]

>>>>>
>>>>>
>>>>> [cid:image001.png@01DA9982.8A0FF230]
>>>>> [redacted]
>>>>> Phone:+[redacted]
>>>>> WhatsApp: +[redacted] tel:+[redacted]
>>>>> Email:
>>>>> [redacted]mailto:[redacted]
>>>>> [cid:image002.png@01DA9982.8A0FF230]
>>>>>
>>>>>
>>>>>
>>>>> From: Alain Muise
>>>>> <admuise@munargyle.com<mailto:admuise@munargyle.com>>
>>>>> Sent: Tuesday, April 16, 2024 1:08 PM
>>>>> To: [redacted]
>>>>> <[redacted]mailto:[redacted]
>>>>> Alix d'Entremont <gistech@munargyle.com<mailto:gistech@munargyle.com>>
>>>>> Cc: info@coltonleblanc.ca<mailto:info@coltonleblanc.ca>; Danny Muise
>>>>> <DMuise@munargyle.com<mailto:DMuise@munargyle.com>>; [redacted]
>>>>> ([redacted]mailto:[redacted]
>>>>> <[redacted]mailto:[redacted]
>>>>> [redacted]mailto:[redacted]
>>>>> [redacted]mailto:[redacted] Nicole Albright
>>>>> <NAlbright@munargyle.com<mailto:NAlbright@munargyle.com>>; Scott
>>>>> Surette <ssurette@munargyle.com<mailto:ssurette@munargyle.com>>
>>>>> Subject: RE: Aquaculture Development Area Pilot Project
>>>>> Sensitivity: Confidential
>>>>>
>>>>> Mr. [redacted]
>>>>>
>>>>> I have received your email and will be making inquiries based on it. You may not get a return call today, but rest assured that is because I am actively collecting data to be sure my response is as accurate as possible. The municipality's role is not in the decision on the location of these leases, but we were actively involved in this project, especially in the public engagement process that went on for about 2 years, some to general public and some specific to known ocean users. Forgive what I expect to be a day delay in responding via call. In the meantime, I can share what I have available now:
>>>>>
>>>>> I can confirm that one of the 6 sites issued for lease is closer to your home than the existing development as run by d 'Eon's Oyster farm.
>>>>> I can confirm that every site investigated was done taking into consideration the archeological, cultural, indigenous, transportation and fishing routes of the sea in these areas, and I can likely obtain specific details around the site closer to your home if you wish it. This detail would come from the Province of NS as they hold it.
>>>>> I shall seek and obtain the distance and sightline from to the proposed new lease area.
>>>>> I will confirm the public consultation dates and times etc that were made available to the public during the course of this exercise.
>>>>> I can confirm there is another public consultation availability on this particular lease which I will be sure to include dates to you or any other resident near that location. The leases generally did have public consultation; however, another is required by law when a specific lease area is up for application.
>>>>>
>>>>> Please be patient as I collect the remaining data. I can understand your concern and I hear frustration on your part. We want to get as much info to you as possible in the hopes of alleviating, understanding and addressing some of your concerns.
>>>>>
>>>>> Finally, I can confirm that your concern was noted, and part of the report delivered to the Minister. I will seek information on how your concern was discussed and part of a final decision on lease locations.
>>>>>

>>>>> Sincerely,
>>>>>
>>>>> Alain Muise, CPA
>>>>> Chief Administrative Officer
>>>>>
>>>>>
>>>>> From: [redacted]
>>>>> <[redacted] mailto:[redacted]
>>>>> Sent: Monday, April 15, 2024 5:46 PM
>>>>> To: Alix d'Entremont
>>>>> <gistech@munargyle.com<mailto:gistech@munargyle.com>>
>>>>> Cc: info@coltonleblanc.ca<mailto:info@coltonleblanc.ca>; Danny Muise
>>>>> <DMuise@munargyle.com<mailto:DMuise@munargyle.com>>; Alain Muise
>>>>> <admuise@munargyle.com<mailto:admuise@munargyle.com>>; [redacted]
>>>>> ([redacted] mailto:[redacted]
>>>>> <[redacted] mailto:[redacted]
>>>>> [redacted] mailto:[redacted]
>>>>> [redacted] mailto:[redacted] Nicole Albright
>>>>> <NAlbright@munargyle.com<mailto:NAlbright@munargyle.com>>
>>>>> Subject: FW: Aquaculture Development Area Pilot Project
>>>>> Sensitivity: Confidential
>>>>>
>>>>> Some people who received this message don't often get email from
>>>>> [redacted] mailto:[redacted] Learn
>>>>> why this is important<https://aka.ms/LearnAboutSenderIdentification>
>>>>> Hi Alix,
>>>>>
>>>>> Thank you for the call today.
>>>>>
>>>>> As discussed, [redacted] and I are very surprised and displeased with
>>>>> today's announcement: https://www.cjls.com/2024/04/15/72127/
>>>>>
>>>>> Please have Alain Muise call me when he can at [redacted]
>>>>>
>>>>> As discussed, I really feel like our concerns were not taken into account. As a constituent of Argyle, I feel like we were ignored, especially when I made a real effort to put residential concerns on your radar. I was anticipating that you and the municipality would be advocating for the residents. Instead, it seems the municipality of Argyle was advocating for commercial interests alone. This outcome is completely unbalanced and one-sided.
>>>>>
>>>>> Please review one of our many email discussions below from the past. The overall sentiment was more than fair. We only ever sought to encourage the municipality and province to seek a "balance" between those living in/on Lobster Bay, and the needs of expanding a commercial fishery. Unfortunately, this balance has not been realized. Many of the proposed locations chosen are as I feared, -being along residential areas, and places used for recreation, boating, swimming, tourism, etc. For comparison, is the province focused on a place like Mahone Bay in the same manner for Aquaculture development? I doubt it. And we know why.
>>>>>
>>>>> As previously expressed to you, I currently look at an Oyster Fishery and processing plant from my backyard (yellow area on map). To make things worse, one of the first 6 locations to be approved for expansion will now encroach up to my house at [redacted] in [redacted] by only several hundred feet (purple on the map), -next to [redacted] and [redacted]. Who is ultimately making these decisions and why am I (or local constituents) not being consulted? When I provide data and express concerns, why am I being ignored? Why was I + the community not notified of any updates or communication on this expansion to date? Why is your office and the province appearing to be operating quietly in isolation? Was this done intentionally or unintentionally?
>>>>>
>>>>> Adding insult to injury, [redacted] are about to significantly invest in our property [redacted] Permit applications have been submitted for approval to the Argyle municipal office. Further, we have

hired local industry and small business to take on this large project. These decisions taken today make my property worth less.
>>>>>
>>>>> [cid:image009.png@01DA9982.8A0FF230]
>>>>>
>>>>> I feel that I've not only been ignored but poked in the eye. This has been most frustrating as a taxpayer.
>>>>>
>>>>> What are the options as a constituent at this stage? Establishing a community consultative group to provide input is simply too late in my opinion. This should have been done from the onset vs post decision making and announcement. You needed to establish a communication plan and consultative group representing all sides much earlier in the process. It's too late now as it only offers the perception that you're being fair. Ignoring our concerns and reaching this stage of decision making is not transparent or just.
>>>>>
>>>>> We're at a loss as to why these decisions were taken when you knowingly realized we had a vested interest and brought this to your attention over 2 years ago. I think I'm answering my own question given how this has played out. I'm concerned this was all done based on an agenda of those on the side of expanding Aquaculture development and no one else. Before I go to the media, perhaps the Warden and MLA can convince me otherwise?
>>>>>
>>>>>
>>>>> Sincerely,
>>>>>
>>>>> [redacted] and [redacted]
>>>>> [redacted]
>>>>> Ste Anne du Ruisseau
>>>>> Nova Scotia
>>>>> [redacted]
>>>>> Phone : +[redacted]
>>>>>

From: Alain Muise
To: Argyle-Council
Cc: Alix d"Entremont
Subject: recent events concerning aquaculture (long email warning)
Date: May 6, 2024 11:03:16 AM

Goodday all,

Recently, many individuals, at all three levels of government including staff at province and municipality, have been approached with questions and concerns regarding the recent announcement of 6 ADA sites that are open for application. Our public engagement process is live and online and we will be linking it to our social media sites. You will find it to be very comprehensive. The local stakeholders report is found here:

Report | argyleaquaculture (aquacultureargyle.com)

That being said, Alix and I will be shining a light on the process for leases for ADA, which is led by the Province of NS, but we have ownership as a partner. When reading through the provincial website, it can be challenging to navigate, which is why we will be issuing a 4 part series on our social media, linking relevant information to our site. All info linked is public info.

I wanted you to see this before releasing, and if you had any questions.

In all, there are 53 sites, which include oyster farm leases, and marine plant leases. They are of various sizes and placed in various locations.

The map released by the province of NS is included here. (this is on our aquaculture website, linked to province)

argyle-aquaculture-development-area-map-en.pdf (novascotia.ca)

6 of these locations have been issued for application, which was announced when the Minister was here in Argyle. It is important to note that the sites represent possible application sites. The province shall put so many sites out for call, and they may or may not be applied for. Also keep in mind that the old system was far more liberal as to locations, as the business selected the location, not the province. Each of the ADA sites were pre vetted, but NONE are approved. they were tested to be sure there the waters contained appropriate nutrients, that it was NOT in any significant traditional fishing areas, NOT in any transportation routes (as this is not allowed) and NOT in locations that were known to be aboriginal sites of any kind.

The Province used the following guidelines in its draft and final lease areas for ADA (this is copied directly from the Aquaculture Licence and Lease Regulations)

Factors to be considered in decisions related to marine aquaculture sites

3 In making decisions related to marine aquaculture sites, the Review Board or Administrator must take all of the following factors into consideration:

(a) the optimum use of marine resources;

(b) the contribution of the proposed operation to community and Provincial economic development;

(c) fishery activities in the public waters surrounding the proposed aquacultural operation;

(d) the oceanographic and biophysical characteristics of the public waters surrounding the proposed aquacultural operation;

(e) the other users of the public waters surrounding the proposed aquacultural operation;

(f) the public right of navigation;

(g) the sustainability of wild salmon; **(NOT APPLICABLE, FOR FINFISH DEVELOPMENT)**

(h) the number and productivity of other aquaculture sites in the public waters surrounding the proposed aquacultural operation;

The six locations each have an ADA number and are:

Name	size		See map locations:
8007 – Tusket river	24 hectares	(59 acres)	located south of mikes island, between that location and Wedgeport, Chemin de l 'Est
8010- Indian sluice bay	89.2 hectares	(220 acres)	located between surettes island and mike's island
8012 – Salt Bay	24.4 hectares	(60 acres)	located north of Nolan's current site, his existing site is 15 hectares (see Rocco Point, Gunning island on the map)
8023 – lobster bay	7.13 hectares	(17 acres)	located between Board islands and Bonds Island
8038 – Pubnico harbour	23.2 hectares	(57 acres)	located between Middle West and Middle East Pubnico (purple area closer to West Pub
8046 – Argyle Sound	6 hectares	(15 acres)	located near Argyle Sound, tucked in between Spinney Road and Frost Island.

The size of lease areas represents the possible development size, not the actual size applied for. Also, ALL sites must go through an application review process, a video of this can be found here:

Licensing and leasing - Government of Nova Scotia, Canada - video called licensing and leasing admin process. This video goes through the process, and where the public, having their engagement during the planning, will have another opportunity to submit their comments.

Our social media will include, in four posts)
a link to our public report
a link to the map, and a description of the six areas up for application
other information considered pertinent to our community.

Please send along any questions here. I will forward this to the province so they are aware.

Sincerely,

Alain

From: Alix d"Entremont
To: [redacted]
Subject: RE: ADA"s
Date: October 13, 2022 4:29:00 PM
Attachments: CHS_Chart_32-25x46-5_ShellfishMarinePlants.pdf

Here is the map showing the proposed areas with differentiation between “Shellfish and Marine Plants” and “Marine Plants”.

Let me know if you have any questions.

From: [redacted] <[redacted]>
Sent: Thursday, October 13, 2022 8:33 AM
To: Alix d'Entremont <gistech@munargyle.com>
Subject: ADA's

[redacted]
Non Responsive [redacted]

From: Alix d"Entremont
To: [redacted]
Subject: ADA Open House Notes
Date: October 25, 2022 3:17:00 PM
Attachments: 20221019-ADA Open House Notes.docx

Alix d'Entremont
GIS Technician
Municipalities of
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gistech@munargyle.com

OCTOBER 19, 2022
OPEN HOUSE NOTES

Aquaculture Development Area Stakeholder (ADA)
Municipality of the District of Argyle

Glenwood Hall
1:00 pm to 3:00 pm

Attendees:

1. Alix d'Entremont (MoDA Staff)
2. Alain Muise (MoDA Staff)
3. Gregor Reid (CMAR)
4. Margo Coughlin (CMAR)
5. Matthew King (NSDFA)
6. Nathaniel Feindel (NSDFA)
7. Anne Winters (WSP)
8. Scott Surette (MoDA Staff)
9. [redacted] (LeBlanc Seeded Lines)
10. Glenn Diggdon (MoDA Councilor)
11. Kathy Bourque (MoDA Councilor)
12. Danny Muise (MoDA Warden)
13. Gordon Boudreau (MoDA Councilor)
14. [redacted] (Delta Waterfowl)
15. [redacted] (Surette's Island Resident)
16. [redacted] (Surette's Island Resident)
17. [redacted] (Surette's Island Resident)
18. [redacted] (TREPA)
19. [redacted] (Bouctouche Bay Industries, Oyster Grow)
20. [redacted] (Bouctouche Bay Industries, Oyster Grow)
21. [redacted] (Independent)
22. [redacted] (Pubnico lobster fisher)
23. [redacted] (Grande Passe Oysters Ltd.)
24. [redacted] (The Maritime Oyster Company Ltd.)
25. [redacted] (d'Eon Oyster Company Ltd.)
26. [redacted] (Robert's Island resident)
27. [redacted] (Pubnico lobster fisher)
28. [redacted] (Pubnico lobster fisher)
29. Gilles Saulnier (CIFA journalist)

Feedback Received During Conversations

- Councilors that attended were very impressed with setup and turnout.

- Three Surette's Island residents ([redacted]) were concerned about the proposed ADA polygons near their homes in lower Surette's Island.
- [redacted] were promoting the OysterGrow system by speaking with attendees and by having the equipment behind their truck in the parking lot for people to look at.
- [redacted] presenting Delta Waterfowl was interested in joining the Stakeholder Committee.
- [redacted] were present because they had an interest in the marine plant industry (sugar kelp) since they already have the equipment and time.
- [redacted], all existing American Oyster farmers in the Municipality were speaking with the hosts, OysterGrow representatives and those interested in the aquaculture industry.
- Gilles Saulnier (CIFA journalist) asked some questions regarding the general feedback that the Municipality has received.
- [redacted] (TREPA) was concerned about the unsightly premises at the Maritime Oyster Company's land on Eel Lake.
- [redacted] was concerned that there would be issues if multiple people applied for the same ADA areas. How do you ensure that the most people are successful in their application.

Argyle Municipal Building
6:00 pm to 8:00 pm

Attendees:

1. Alix d'Entremont (MoDA Staff)
2. Alain Muise (MoDA Staff)
3. Gregor Reid (CMAR)
4. Margo Coughlin (CMAR)
5. Matthew King (NSDFA)
6. Nathaniel Feindel (NSDFA)
7. Anne Winters (WSP)
8. [redacted] (LeBlanc Seeded Lines)
9. [redacted] (Argyle lobster fisher)
10. [redacted] (son of [redacted])
11. Danny Muise (MoDA Warden)
12. Nicole Albright (MoDA Councilor)
13. Guy Surette (MoDA Councilor)
14. Ted Saulnier (MoDA Councilor)
15. [redacted] (Bouctouche Bay Industries, Oyster Grow)
16. [redacted] (Bouctouche Bay Industries, Oyster Grow)

17. Daniel Mombourquette (NSDFA)
18. [redacted] (Pubnico lobster fisher)
19. [redacted] (Pubnico accountant)
20. [redacted] (Pubnico lobster fisher)
21. [redacted] (Pubnico lobster fisher)
22. [redacted] (Pubnico lobster fisher)
23. [redacted] (local retired fisher)
24. [redacted] (d'Eon Oyster Company Ltd.)
25. [redacted] (Grande Passe Oysters Ltd.)
26. [redacted] (Pubnico lobster fisher)
27. [redacted] (Pubnico lobster fisher)
28. [redacted] (Eel Lake Resident)
29. [redacted] (Eel Lake Resident, likely [redacted] partner)
30. [redacted] (Abram's River Resident)
31. [redacted] (Morris Island lobster fisher)
32. Gilles Saulnier (CIFA journalist)
33. [redacted] (Shelburne County Resident)

Feedback Received During Conversations

- Councilors happy with attendance and setup.
- Councilor Ted Saulnier asked general questions about the ADA related to areas chosen and next steps.
- Daniel Mombourquette spoke to Alix about possible research opportunities within AFF related to the ADA project.
- [redacted] were all interested in investing in aquaculture, especially marine plants.
- [redacted] suggested that experimental leases should be setup to lower the risk to investors. [redacted] had some sites in the past that fail (e.g., Glenwood Bay).
- [redacted] residents of Eel Lake, had concerns about the proposed ADA polygon in the southern part of Salt Bay. They also raised concerns about the unsightly property owned by [redacted]. on Eel Lake.
- [redacted], fisherman from Morris Island, had concerns about the proposed ADA polygon near the Morris Island wharf. People use that cove to pull up their boats and to store lobster cars.
- [redacted] said that only lobster fishers from District 34 should be permitted to apply for leases within the ADA. [redacted] also sent an email to Alix that night expanding on his thoughts.
- [redacted], with an audience of young guys from Pubnico, spoke about the sugar kelp growing on his cages, lines and buoys in Salt Bay. He also said that he will be applying for a site in northern Salt Bay.

Charlene's Comments

- [redacted] wanted [redacted] to work with them. They are most interested in Pubnico Harbour.
- [redacted] was concerned about the competition for lease areas. The Pubnico crew wants to work together and decide to apply for different leases to remove competition.
- [redacted] are interested in marine plants.
- Most fishers wanted to apply for locations near their home port.
- Some fishers were interested in putting a lease south of Rankins Island.
- [redacted] thought that Argyle Sound wasn't a good place. Boat shop and [redacted] are territorial.
- [redacted] had an issue with the polygon north of the Tittle wharf. Narrow, navigation, ice issues.

SEND GOOGLE PHOTOS LINK TO ANNE

From: Alix d"Entremont
To: [redacted]
Subject: RE: Salt Bay
Date: May 9, 2024 9:52:00 AM

[redacted]

Thank you for your email and your question regarding the Aquaculture Development Area (ADA).

Your feedback during the Open House in 2022 regarding a possible site in lower Salt Bay was forwarded to the Department of Fisheries and Aquaculture (NSDFA). The NSDFA have removed the site in lower Salt Bay that we had spoken to you about.

I'll provide a quick update on the ADA. We are also posting information on this on the Municipality of Argyle Facebook Page. Last month, the Argyle Aquaculture Development Area (ADA) was designated to represent 53 sites for shellfish and marine plant aquaculture, within Lobster Bay and Pubnico Harbour. Only 6 of these are currently open for applications to the NSDFA. One of these 6 sites is in upper Salt Bay, north of d'Eon Oyster Company's current farm. For more details, see the Nova Scotia Department of Fisheries and Aquaculture (NSDFA) website:

https://novascotia.ca/argyle-aquaculture-development-area/

Once an applicant is approved through a call for proposals, then an application is made which is reviewed through what is known as the "Administrative Process." This process includes an opportunity for the public to provide feedback in writing during a 30-day public comment period. This period starts when the Administrator publishes a notice on the NSDFA website and in the Royal Gazette Part I. Applications in progress will be advertised on the NSDFA website, here:

https://novascotia.ca/fish/aquaculture/public-information/

For more details on Licensing and Leasing including further information on the "Administrative Process," follow this link:

https://novascotia.ca/fish/aquaculture/licensing-leasing/

Let me know if I can be of further assistance.

Alix d'Entremont
GIS Technician
Municipalities of
Argyle and Yarmouth

5 Rue J.E. Hatfield Court
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office +1-902-648-2623
gistech@munargyle.com

From: [redacted] <[redacted]>
Sent: Wednesday, May 8, 2024 5:19 PM
To: Alix d'Entremont <gistech@munargyle.com>
Subject: Salt Bay

> You don't often get email from [redacted] Learn why this is important

Hello Alix,

Could you provide an update with regard to possible oyster expansion in Salt Bay. As I live there I am quite concerned about this for many reasons mostly for the bird population and the disruption to the bay.

[redacted]

From: Alix d"Entremont
To: Alain Muise
Subject: RE: Wsp work on aquaculture public engagement
Date: May 9, 2024 4:40:00 PM
Attachments: MODA_AquacultureMemo_13September2022.pdf
OpenHouse_Boards.pdf
MoDA Aquaculture Development Areas_WWH_DRAFT_25Nov2022.docx

Non Responsive [redacted]

[redacted]

[redacted]

[redacted]

From: King, Matthew S
To: Alain Muise; [redacted]
Subject: ADA Steering Committee Summary - April 30th, 2021
Date: May 21, 2021 2:49:47 PM
Attachments: 2021.04.30_ADA_Steering_Committee_Meeting_SlideDeck.pdf
ADA_Timeline_20210428.pdf
ADA_Summary_Minutes_20210430.pdf

Hi all;

I trust things are well.

Attached is the Argyle ADA Steering Committee summary of discussion from April 30th, 2021. Also attached is the slide deck from [redacted] presentation (2021.04.30_ADA_Steering_Committee_Meeting_SlideDeck) as well as reference to the 4 month timeline (ADA_Timeline_20210428)I showed at the beginning of the meeting.

Thanks again, [redacted], for taking minutes during our Steering Committee meetings.

For clarity, below are the action items that were identified from the meeting:

Action 1: Charlene will provide information to [redacted] from Brazil Rock to add to the app for members to see.
Action 2: CHS can help with bathymetry data request and [redacted] will provide Matthew with contact information on this.

Please let me know if you have any questions or concerns.

Take care and have a nice long weekend,

Matthew King
[redacted]

From: [redacted]
To: Charlene LeBlanc
Cc: Bruce.Hancock@novascotia.ca; Alain Muise
Subject: Re: Aquaculture/Business park on the Sea
Date: May 1, 2018 3:57:44 PM

Hi Charlene,

Thank you for the update. I think we can help on all the fronts outlined. As for contact for the pre-option meeting for a lease you can contact [redacted] who replaced me as manger of aquaculture development (he can be reached at [redacted] This would be for leases not involved in the potential aquaculture development area.

For the aquaculture development area work, as a first step, we can set a meeting with our Minister for your warden and team to come in and discuss your interest in pursuing this awesome development tool for the first time in your region. If you can provide me with dates and a list of attendees I can liaise with the minister's office to book this initial meeting in. I think it would also be wise for you and I to sit down and go through the information you've collected up to this point and learn what additional information will be needed that we can help with.

Scallop ranching is something that has been discussed for several years but true ranching incorporated with the scallop fishery activities, such as what is done in st. Pierre Miquelon is not done here. There was actually a workshop and report produced in 2013 or 2014 by the AANS to look at viability of ranching along fundy coast. I can try and track that down for you. Bruce should have some insights too given his experience in scallop aquaculture. Again I think this is a good more in depth conversation for us to have face to face or over the phone. [redacted] may have insights as well as I think there has been an increase in interest as of late.

I hope this helps, let me know when a sit down to chat about all of this works for you.

Thanks!
[redacted]

Sent from my iPhone

On May 1, 2018, at 6:34 AM, Charlene LeBlanc <CLeblanc@munargyle.com> wrote:

> Good morning.
> Today we had plans to get some more water testing done, but had to postpone until the weather is more agreeable. It's impaerativbe that we get out in May so we can map the lobster buoys.
>
> We have added 3 sites to the next two round of sampling; one site is in Salt Bay (may as well sample that water as the oysters there are growing faster than Eel Lake, and we will know how the other sites compare), and the other is just outside Salt Bay.
>
> The third site is one that a potential investor and I went out to have a look at last week. He is interested in scallop ranching, Kelp, and oysters. He has the means and boat. He is eager and "has his running shoes on and tied". We had a conference call with [redacted] and we had initially planned to go visit them and a few farmers in August, but he

now wants to go in May.

I have a few questions:

1. Who do we now see for the initial meeting regarding a lease, now that [redacted] is not there?
2. Is there anything we can assist you with when it comes to the province/Argyle "preapproved lease" project?
3. Is there scallop ranching in our province?

Thanks !

CHARLENE LEBLANC
Community Development Officer
27 Courthouse Road / PO Box 10
Tusket, Nova Scotia B0W 3M0
902-648-2623 [redacted] [redacted]
cleblanc@munargyle.com
www.munargyle.com

From: King, Matthew S
To: Charlene LeBlanc; Alix d"Entremont; Cook, David
Cc: [redacted]
Subject: RE: Argyle aquaculture site info
Date: January 21, 2020 10:52:37 AM

Thanks Charlene. [redacted]

I've cc'd [redacted] to this response. This will help in their workplan preparation; they will likely be reaching out to you soon about sharing data etc.

Picking location(s) will be an agenda item in our February 4th meeting. Finalizing areas of interest is key to moving this project forward.

Good news on the MOU; pretty exciting!

Matthew
P: (902) [redacted]
C: (902) [redacted]
E: Matthew.King@novascotia.ca
This email including any attached files contains confidential and privileged information and is intended for a specific individual and purpose. If you are not the intended recipient, you are hereby notified that any use, disclosure, copying, distribution, or taking of any action in reference to the contents of the information contained in this email or any attached files is strictly prohibited. If you have received this communication in error, please contact the sender immediately and delete this message along with any attached files from your system.

From: Charlene LeBlanc <CLeblanc@munargyle.com>
Sent: January 15, 2020 9:36 AM
To: Alix d'Entremont <gistech@munargyle.com>; King, Matthew S <Matthew.King@novascotia.ca>; Cook, David <David.Cook@novascotia.ca>
Subject: Argyle aquaculture site info

** EXTERNAL EMAIL / COURRIEL EXTERNE **
Exercise caution when opening attachments or clicking on links / Faites preuve de prudence si vous ouvrez une pièce jointe ou cliquez sur un lien

Goodmorning! Just a quick update….

We have 19 sites in total. (I did not add Eel Lake to the ADA, should I?)

7 have zero data or drone or underwater footage of any kind. They are the new ones we have decided on.
3 of them have everything (GPS coordinates, water quality, drone, underwater footage)
The other 9 are missing some info, mostly underwater footage.

[redacted] and we will get the info to you by Friday.

For your information I will list the sites…

1. Salt Bay
2. Widgegum
3. Fox Island
4. Bar Rock
5. Calf Island
6. Indian Bay
7. Mike's Island
8. Indian Sluice Bay
9. Squire's Island
10. Argyle River
11. Glenwood Bay
12. The Basin
13. Hogs Island
14. Pubnico Harbour
15. Argyle Sound
16. Tittle
17. Étoile Island
18. Murder Island
19. Upper Tusket River

CHARLENE LEBLANC
Community Development Officer
27 Courthouse Road / PO Box 10
Tusket, Nova Scotia B0W 3M0
902-648-2623 [redacted] [redacted]
cleblanc@munargyle.com
www.munargyle.com

From: Alix d"Entremont
To: [redacted] King, Matthew S
Cc: [redacted] Charlene LeBlanc
Subject: RE: Data committee file sharing and preparation for next meeting
Date: May 21, 2020 11:49:55 AM
Attachments: Water Testing Data.xlsx
Water Temperature-Old Pt Channel and Tucker Island-Monlty Averages.xlsx
Water Temperature-Old Pt Channel and Tucker Island-All Data.xlsx
Preliminary Feasibility Assessment for Tidal Energy Development in the M....pdf
IndianSluice_Hydraulic Study_CBCL.PDF
SurveyDOTIR_UTM20.xyz
2010340DOTIR.TXT

[redacted]

I've attached these files:

Water Testing Data.xlsx
This is the water testing data completed by the Municipality of Argyle and the lab at the Université de Sainte-Anne. The "Phytoplankton at 40x (u/ml)" represents the visual count of organisms per ml at 40x magnification. "Phytoplankton at 400x (u/ml)" is the same, but at 400x magnification, and would represent mostly single-celled organisms. All sample points have geographic coordinates in WGS84. The municipality has a meter, so you'll see that some of the testing has "MoDA" as the lab, while others have "Sainte Anne" for those that were collected in the field, but processed at the Sainte-Anne lab. Please note the measurements that were done by "MoDA" with our meter and keep in mind that we can do all of those this summer where and when needed. Charlene LeBlanc is the only Argyle staff that is currently trained in using the meter, but I could also learn.

Water Temperature-Old Pt Channel and Tucker Island-All Data.xlsx
Hourly water temperature data at three depths for two locations (Old Point Channel, Feb 2016-Mar 2018; and Tucker Island, Feb-Nov 2016) collected by the NS Dept. of Fisheries and Aquaculture.

Water Temperature-Old Pt Channel and Tucker Island-Monlty Averages.xlsx
Same as the previous file, but monthly averages rather than hourly data.

Preliminary Feasibility Assessment for Tidal Energy Development in the Municipality of the District of Argyle.pdf
A 2015 report by Dalhousie students on the feasibility of developing tidal energy in Argyle, with focus on Indian Sluice (43.71608, -65.94269), The Sluice (43.760491, -65.890222), The Tittle (43.722290, -65.906045), Cat Island Bridge (43.792752, -65.866210), and Big Tusket Island (43.651035, -66.037915, 43.647850, -66.049423), see p. 19. They take some measurements from the Southwest Nova Scotia Resource Assessment.

IndianSluice_Hydraulic Study_CBCL.PDF
A 2011-2012 study by CBCL of Indian Sluice containing water level data and hydraulic analysis in support of the replacement of the Indian Sluice bridge.

2010340DOTIR.TXT, and SurveyDOTIR_UTM20.xyz
Indian Sluice soundings provided to me by Victoria Fernandez (Water Resources Engineer, CBCL) on

Oct 21, 2015.

Alix d'Entremont
GIS Technician
Municipalities of Argyle and Yarmouth

27 Courthouse Road
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office +1 902 648 3166
Mobile [redacted]
gistech@munargyle.com

From: [redacted] [redacted]@dal.ca]
Sent: Saturday, May 16, 2020 3:14 PM
To: [redacted] King, Matthew S
Cc: Alix d'Entremont; [redacted]
Subject: Data committee file sharing and preparation for next meeting

Hello,

First, I am wondering your thoughts on file sharing. The file that I have been working on is continually changing and being improved. [redacted] and I quickly found that it was difficult to keep track of changes as he assisted me with formatting and a few suggestions. I am in the process of moving the file to a Google docs spreadsheet and plan to share with [redacted] If you would like access to this document then I can share it to your prefered gmail or to the email addresses I currently have. I did not include everyone in this email but am open to sharing with others.
This would allow us to all be on the same page as the project continues forward. I am open to suggestions and discussion if there is data that we realize is missing or extraneous.

Secondly, regarding our upcoming meeting. I will prepare an agenda that can be sent out prior to the meeting. Given that we only have an hour I want to make sure that an update is communicated efficiently, the meeting is productive, and all expectations are met.
The outline I had in mind was:

1. Introduction/Review agenda **(5 min)**
2. Walk through how the excel file is set up and reasons for doing is in such a way**(10min)**
3. Discuss some data sources:**(15 min)**

a. Get input from Alix on data sources, suggest working together to compile data from Open data portals and data that Argyle may have.(Matthew also has data)
b. Data is incomplete, so consult whole committee to see if anyone has suggestions for sources, ideas, methods...

4. Identify what the next steps are:**(15 min)**

    a. Complete database/Identify what data may not be obtainable
    b. Primary production model/estimation
    c. GIS development?

5. Summary/Questions/Comments/Concerns**(10 min)**

I am not sure what you all have in mind for outcomes from this meeting so it might be the case that this agenda outline does not cover something you wish to add. To meet all expectations, if there is something that you would like to cover in this meeting please let me know and I will factor it into the agenda.

Best wishes,

[redacted]
Dalhousie University
Phone: [redacted]
Email: [redacted]@dal.ca

From: King, Matthew S
To: Alix d'Entremont [redacted]
Cc: Charlene LeBlanc [redacted]
Subject: RE: Checking In
Date: November 18, 2020 9:13:01 AM
Attachments: jmaoe005.png
jmaoe006.png
jmaoe007.png
jmaoe001.png

Hi Alix;

Thanks for the further clarifications. We simply can't discount the dataset we're using. Just because one area is deemed not reliable, doesn't mean the entire dataset is unreliable. Navionics isn't completely reliable either. Have a look at the image below from Navionics. This is Salt Bay and the red circle indicates the suspended lease within Salt Bay. Note that the depth indicated for this area is **1 foot** (not 1 metre) with green being represented as land at low tide. We've all been to this site and there is more water here than **1 foot.**



Also, in the example you've both raised, I actually don't think the data we have is that far off. From what I can tell the contour that's selected from the data we have is a 2 metre contour and a zero metre contour. The 2 metre contour closely aligns with the Navionics, which suggests the area is 8 feet deep, roughly. That's 2.4 metres. That's not far off. The other reality is, this area of concern looks like a nice corridor for recreational boaters (maybe commercial fishers too) and based on my experience, if we bring an area like this to Transport Canada, they likely won't support it.

There are also many variables to consider here. Some I've explained in my previous email but here are others. The thing is there are other datasets like archeological sites, that are by no means is concrete information but they can be included in the decision support tool. The tool isn't the be all end all and the results of the analysis merely start more conversation to verify with stakeholder, network partners, First Nations along with further analysis using tools like Navionics, taking video perhaps etc. which will narrow down our potential ADA(s).

This is marine spatial planning at it's finest folks. We're going to be discovering errors, obstacles etc. through engagements and analysis and we will deal with them accordingly. The important thing here is that we take precaution and you're already doing that by verifying results (VERY preliminary results I'll add) by comparing with sources like Navionics. Though the example I've given above questions the accuracy of the data on Navionics as well. You're proving that the process is working and NSDFA puts trust in engagements with our regulatory partners, consultations with Mi'kmaq and MoDA's engagements at the local level, that we're putting an ADA somewhere logical.

Rather than the back and forth on this topic via email. Perhaps [redacted] and Alix we can further discuss this issue today.

Perhaps hold off connecting with [redacted] I'd like to verify this dataset before sending out alarms.

I'm available for the rest of the morning until 12pm and after 2:30pm.

Take care,

Matthew
P: (902 [redacted]
C: (902 [redacted]
E: Matthew.King@novascotia.ca
This email including any attached files contains confidential and privileged information and is intended for a specific individual and purpose. If you are not the intended recipient, you are hereby notified that any use, disclosure, copying, distribution, or taking of any action in reference to the contents of the information contained in this email or any attached files is strictly prohibited. If you have received this communication in error, please contact the sender immediately and delete this message along with any attached files from your system.

From: Alix d'Entremont <gistech@munargyle.com>
Sent: November 18, 2020 8:16 AM
To: King, Matthew S <Matthew.King@novascotia.ca>; [redacted]@dal.ca>
Cc: Charlene LeBlanc <CLeblanc@munargyle.com>; [redacted]@perennia.ca>; [redacted]@perennia.ca>
Subject: RE: Checking In

The issue with the bathymetry as I understand it is that the contours do not properly define the depths in the northern sections of our area of analysis. This results in optimal areas shown in the resultant weighted overlay where there is no water at low tide. In the Navionics map below, I've crudely drawn an area identified in the weighted overlay result as optimal for an aquaculture site. There is only a narrow channel in that area (that is properly shown in Navionics). Most or all of that area is certainly not ideal for aquaculture.

Our preliminary weighting puts the bathymetry layer near the top (high weighting) which means that it has a significant effect on the results of the weighted overlay. Therefore, it should be more accurate than it is if we intend on relying so heavily on it.



From: King, Matthew S <Matthew.King@novascotia.ca>
Sent: Tuesday, November 17, 2020 4:47 PM
To: [redacted]@dal.ca>; Alix d'Entremont <gistech@munargyle.com>
Cc: Charlene LeBlanc <CLeblanc@munargyle.com>; [redacted]@perennia.ca>; [redacted]@perennia.ca>
Subject: RE: Checking In

H[redacted]

I don't think we discount this bathymetry dataset yet guys.

1. Perhaps message [redacted], the source of the data, to advise him the issue with the dataset? Remember he said it is "unpublished" data.
2. The focus of this ADA is suspended culture of shellfish and marine plants and the likelihood of aquaculture occurring within 1m (3ft of water or less) is very low. In the [redacted] scale, we will likely be restricting our putting very little [redacted] on depths below 2, 3 and maybe even 4 metres of water, which coincidentally brings us in the vicinity of eel grass areas as well.

Remember you've interpolated this bathymetry dataset, so there may be errors that arise. Another reason why this is a decision support tool and there will be further verification required when the scope gets more narrowed and a potential ADA(s) determined.

We can catch up on this tomorrow. Nice to hear the beacons of information was used for guidance.

As for the CHS and the MOU, that's not an option at this point. Sorry.

Look forward to seeing the analysis output based on your perspectives.

Take care,

Matthew
P: (902
C: (902 [redacted]
E: Matthew.King@novascotia.ca
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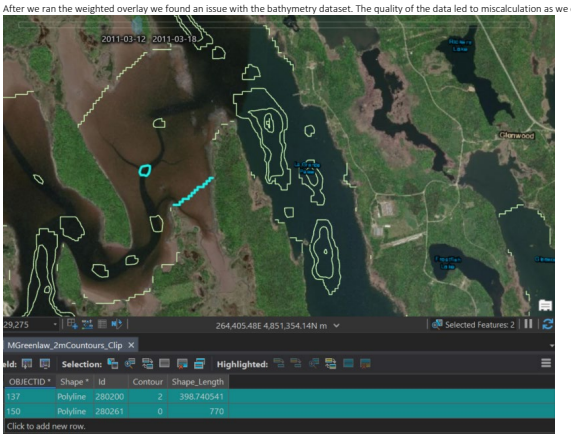
From: [redacted]@dal.ca>
Sent: November 17, 2020 4:17 PM
To: King, Matthew S <Matthew.King@novascotia.ca>; Alix d'Entremont <gistech@munargyle.com>
Cc: Charlene LeBlanc <CLeblanc@munargyle.com>; [redacted]@perennia.ca>; [redacted]@perennia.ca>
Subject: Re: Checking In

Hi Matt,

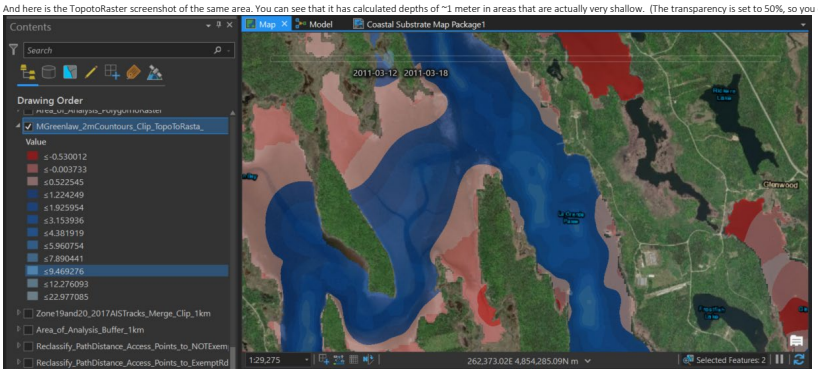
Alix and I went through the exercise of assigning weights to each individual layer. We quickly refrained from adhering to the Beacons because it is not possible to follow the rules we have imposed and break up the weights accordingly. This is not possible to do because there are different

numbers of layers in each beacon. We did use the beacons as a guide.

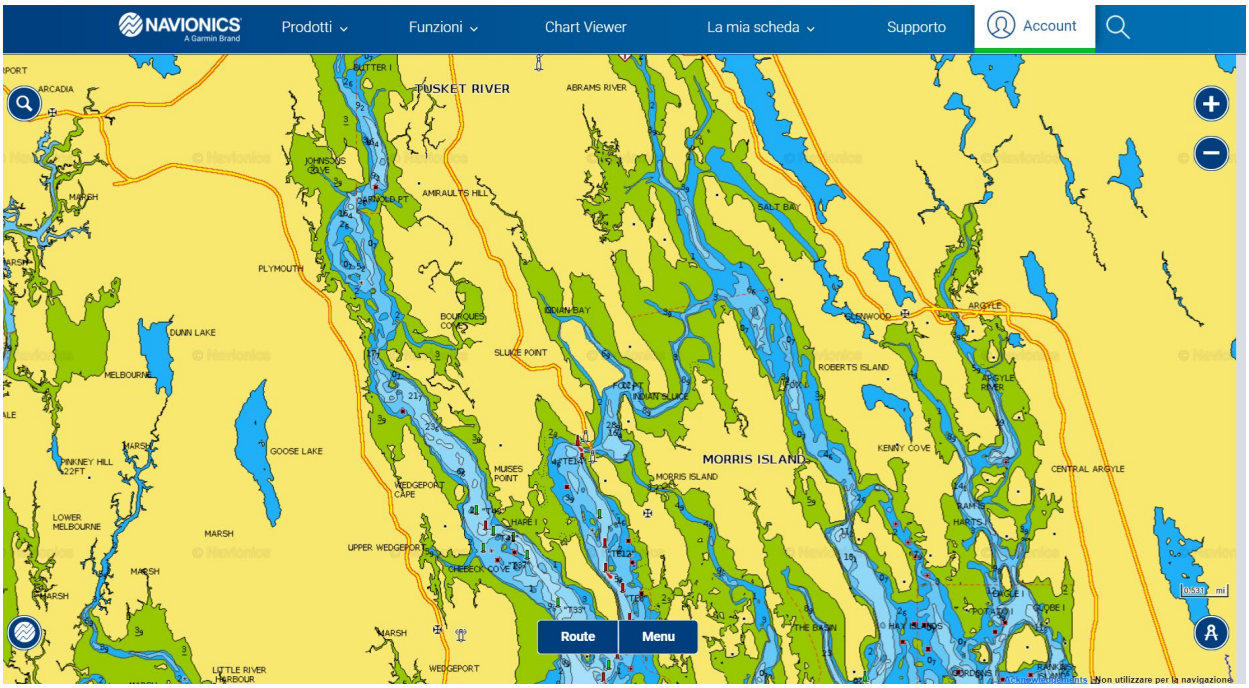
After we ran the weighted overlay we found an issue with the bathymetry dataset. The quality of the data led to miscalculation as we converted with TopotoRater tool. TopotoRaster is the right tool, the issue lies with the quality of data. See the screenshot below,



And here is the TopotoRaster screenshot of the same area. You can see that it has calculated depths of ~1 meter in areas that are actually very shallow. (The transparency is set to 50%, so you can see channel.



Do you know where we stand with regards to the MOU between NSDFA and CHS? I am hopeful that they are better data. Just for reference, here is another screenshot of bathymetry data used by the Navionics Webapp. you can see that this data is MUCH more accurate than we currently have. The hope is, CHS will have data this accurate.



Any input as to the status of the MOU would be great. If we can not get good data in a reasonable time frame, then Alix has suggested the possibility of Georeferencing a screen shot of high quality bathy data, which we can use to either edit our data or create a new bathy layer.

What are your thoughts?

Also, I have cc'[redacted] In case they can comment on this matter.

Best Regards,

[redacted]
Dalhousie University

Phone: [redacted]

Email [redacted]@dal.ca

From: King, Matthew S <Matthew.King@novascotia.ca>
Sent: Tuesday, November 17, 2020 8:37 AM
To: Alix d'Entremont <aistech@munargyle.com>
Cc: [redacted]@dal.ca>; Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: Re: Checking In

CAUTION: The Sender of this email is not from within Dalhousie.

That works for me.

[redacted] if you can be there, that'd be great!

I'll send an invite.

Sent from my iPhone

On Nov 17, 2020, at 8:30 AM, Alix d'Entremont <aistech@munargyle.com> wrote:

Matt, does 2 pm work for you?

Get Outlook for Android

From: King, Matthew S <Matthew.King@novascotia.ca>
Sent: Tuesday, November 17, 2020 8:19:28 AM
To: [redacted]@dal.ca>; Alix d'Entremont <aistech@munargyle.com>
Cc: Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: RE: Checking In

Thanks [redacted]

Alix; perhaps we can have a quick follow up discussion? I'm around all day except between 3pm-4pm.

Take care,

Matthew
P: (902) [redacted]
C: (902) [redacted]
E: Matthew.King@novascotia.ca
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From: [redacted]@dal.ca>
Sent: November 16, 2020 8:58 PM
To: King, Matthew S <Matthew.King@novascotia.ca>; Alix d'Entremont <aistech@munargyle.com>
Cc: Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: Re: Checking In

** EXTERNAL EMAIL / COURRIEL EXTERNE **
Exercise caution when opening attachments or clicking on links / Faites preuve de prudence si vous ouvrez une pièce jointe ou cliquez sur un lien

Hi all,

I'm going ahead and sharing the layers that Matt has mentioned. Alix, as you are going through the layers, I am happy to chat/discuss or correspond over email.

Best Regards,

[redacted]
Dalhousie University

Phone: [redacted]

Email [redacted]@dal.ca

From: King, Matthew S <Matthew.King@novascotia.ca>
Sent: Monday, November 16, 2020 3:49 PM
To: Alix d'Entremont <aistech@munargyle.com>
Cc: Charlene LeBlanc <CLeblanc@munargyle.com>; [redacted]@dal.ca>
Subject: Checking In

CAUTION: The Sender of this email is not from within Dalhousie.

Hope all is well.

Thanks for participating in discussions on Friday. As a follow up to our discussions there were two datasets that required further follow up with you, being at the local level.

The two datasets were:
Wharves (Ports/Facilities)
Boat Launches

[redacted] is going to follow up with the datasets.

Perhaps you can have a look and make additions, edits and even delete wharves and boat launches that are no longer there? Is this something you're able to help us with?

Please reach out with any questions.

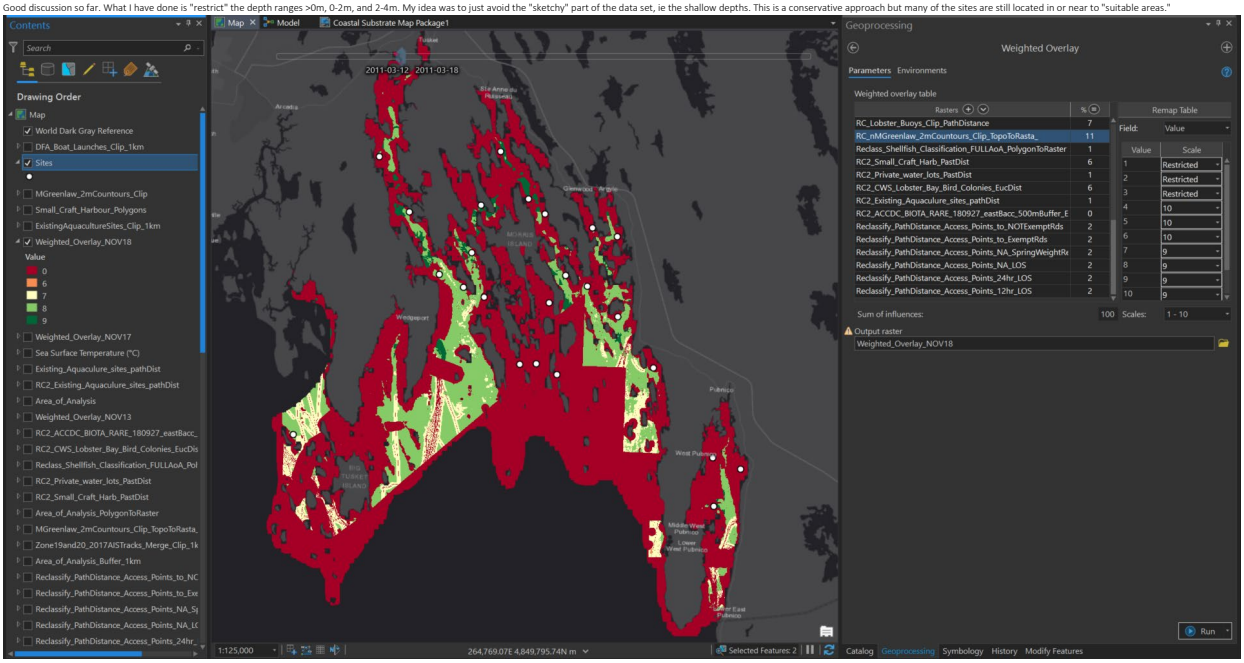
Take care,

Matthew King
[redacted]

From: [redacted]
To: [redacted] Alix d'Entremont
Cc: Charlene LeBlanc [redacted]
Subject: Re: Checking In
Date: November 18, 2020 9:32:33 AM
Attachments: image005.png
image006.png
image007.png
image001.png
image.png

Hi all,

Good discussion so far. What I have done is "restrict" the depth ranges >0m, 0-2m, and 2-4m. My idea was to just avoid the "sketchy" part of the data set, ie the shallow depths. This is a conservative approach but many of the sites are still located in or near to "suitable areas."



Disclaimer: This map is not defining suitable areas, more so suggesting them based on the datasets we have included, weighted, and scaled.

In summary, the tool was performing inaccurate calculations in this region. So I removed the inaccurate region from the calculation. Seem reasonable for now?

Best Regards,

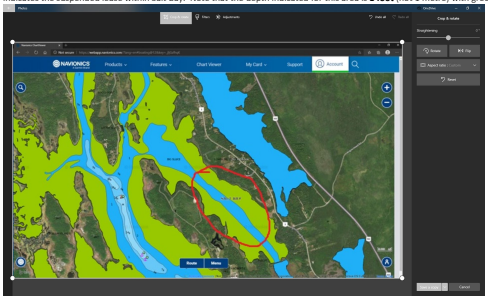
[redacted]
Dalhousie University
Phone: [redacted]
Email: [redacted] @dal.ca

From: King, Matthew S <Matthew.King@novascotia.ca>
Sent: Wednesday, November 18, 2020 9:08 AM
To: Alix d'Entremont <gistech@munargyle.com>; [redacted] @dal.ca>
Cc: Charlene LeBlanc <CLeblanc@munargyle.com>; [redacted] @perennia.ca>; [redacted] @perennia.ca>
Subject: RE: Checking In

CAUTION: The Sender of this email is not from within Dalhousie.

Hi Alix;

Thanks for the further clarifications. We simply can't discount the dataset we're using. Just because one area is deemed not reliable, doesn't mean the entire dataset is unreliable. Navionics isn't completely reliable either. Have a look at the image below from Navionics. This is Salt Bay and the red circle indicates the suspended lease within Salt Bay. Note that the depth indicated for this area is **1 foot** (not 1 metre) with green being represented as land at low tide. We've all been to this site and there is more water here than **1 foot.**



Also, in the example you've both raised, I actually don't think the data we have is that far off. From what I can tell the contour that's selected from the data we have is a 2 metre contour and a zero metre contour. The 2 metre contour closely aligns with the Navionics, which suggests the area is 8 feet deep, roughly. That's 2.4 metres. That's not far off. The other reality is, this area of concern looks like a nice corridor for recreational boaters (maybe commercial fishers too) and based on my experience, if we bring an area like this to Transport Canada, they likely won't support it.

There are also many variables to consider here. Some I've explained in my previous email but here are others. The thing is there are other datasets like archeological sites, that are by no means is concrete information but they can be included in the decision support tool. The tool isn't the be all end all and the results of the analysis merely start more conversation to verify with stakeholder, network partners, First Nations along with further analysis using tools like Navionics, taking video perhaps etc. which will narrow down our potential ADA(s).

This is marine spatial planning at it's finest folks. We're going to be discovering errors, obstacles etc. through engagements and analysis and we will deal with them accordingly. The important thing here is that we take precaution and you're already doing that by verifying results (VERY preliminary results I'll add) by comparing with sources like Navionics. Though the example I've given above questions the accuracy of the data on Navionics as well. You're proving that the process is working and NSDFA puts trust in engagements with our regulatory partners, consultations with Mi'kmaq and MoDA's engagements at the local level, that we're putting an ADA somewhere logical.

Rather than the back and forth on this topic via email. Perhaps [redacted] and Alix we can further discuss this issue today.

Perhaps hold off connecting with [redacted] I'd like to verify this dataset before sending out alarms.

I'm available for the rest of the morning until 12pm and after 2:30pm.

Take care,

Matthew
P: (902 [redacted]
C: (902 [redacted]
E: Matthew.King@novascotia.ca
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From: King, Matthew S
To: Alain Muise; Charlene LeBlanc; [redacted] Hancock, Bruce H; King, Matthew S; [redacted] Winfield, Lynn; Alix d'Entremont; [redacted]
Subject: ADA Steering Committee Summary - Dec. 18th, 2020
Date: January 7, 2021 9:52:31 AM
Attachments: ADA_Steering_Committee_Dec_18th.pdf
Initial_Weighted_Overlay_Results.docx
ADA_Data_Visualization_WithScales_andPercentages_.pdf
Datasets_Decision_Support_Tool.xlsx
ADA_Summary_Minutes_20201218.docx

Hi all;

Happy New Year!

I trust things are well.

Attached is the Argyle ADA Steering Committee summary of discussion from December 18th along with two slide decks relating to the *ADA_Steering_Committee_Dec_18th* and *ADA_Data_Visualization_WithScales_andPercentages_*. Also attached are the initial visual results *(Initial_Weighted_Overlay_Results*) from the decision support tool as presented in the meeting and the supporting excel file (*Datasets_Decision_Support_Tool*) showing the weighting and evaluation scales for the analysis to date. Thanks again, Lynn, for taking minutes during our Steering Committee meetings.

For clarity, below are the action items that were identified from the meeting:

Action 1 – [redacted] will circulate the white paper on Eel grass within DFO and request comments that he will provide to [redacted]
Action 2 – [redacted] to follow up with [redacted] on the carrying capacity work.
Action 3 – Matthew to work with [redacted] on assessing the relationship between depths and the 300m buffers for salt marshes and bird colonies.

Please let me know if you have any questions.

Take care,

Matthew King, MMS
Aquaculture Planning & GIS Officer
Nova Scotia Department of Fisheries and Aquaculture
1575 Lake Road
Shelburne, NS
B0T 1W0
P: (902) [redacted]
C: (902) [redacted]
F: (902) [redacted]
E: Matthew.King@novascotia.ca
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distribution, or taking of any action in reference to the contents of the information contained in this email or any attached files is strictly prohibited. If you have received this communication in error, please contact the sender immediately and delete this message along with any attached files from your system.

From: King, Matthew S
To: Alain Muise; Charlene LeBlanc; [redacted] Hancock, Bruce H; King, Matthew S; [redacted] Winfield, Lynn; [redacted] Alix d"Entremont; [redacted]
Subject: ADA Steering Committee Summary - Jan. 22nd, 2021
Date: February 16, 2021 3:48:27 PM
Attachments: ADA_Summary_Minutes_20210122.pdf

Hi all;

I trust things are well.

Attached is the Argyle ADA Steering Committee summary of discussion from January 22nd, 2021. Thanks again, Lynn, for taking minutes during our Steering Committee meetings.

For clarity, below are the action items that were identified from the meeting:

Action 1 - [redacted] advised that he would make some inquiries and get back to Charlene on who/what other committees may also be contacted for engagement.
Action 2 - Alix and Charlene will be meeting on Tuesday afternoon to make plans for who to contact and to plan a path forward.
Action 3 – [redacted] and the [redacted] team to put together a one pager summary on Oyster aquaculture and define the layers in layman terms.
Action 4 - [redacted] will look for some information on the tracking of lobster, there is a lot of information for this from PEI.
Action 5 – Leah (and maybe [redacted] will assist Alix and Charlene with the preparation of a brochure with key messaging.
Action 6 – Oysters used to clean a pond? [redacted] will check with contacts at BIO on this.

Please let me know if you have any questions.

Take care,

Matthew King, MMS
Aquaculture Planning & GIS Officer
Nova Scotia Department of Fisheries and Aquaculture
1575 Lake Road
Shelburne, NS
B0T 1W0
P: (902) [redacted]
C: (902) [redacted]
F: (902) [redacted]
E: Matthew.King@novascotia.ca
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From:	King, Matthew S
To:	Alain Muise; Charlene LeBlanc; [redacted] Hancock, Bruce H; King, Matthew S; [redacted] Winfield, Lynn; Alix d'Entremont; [redacted]
Subject:	ADA Steering Committee Summary - Feb. 26th, 2021
Date:	March 3, 2021 9:52:27 AM
Attachments:	ADA_Summary_Minutes_20210226.pdf ADA_Steering_Committee_Feb_26th.pdf Argyle ADA Data Committee Meeting_12022021_for the Steering Committee.docx

Hi all;

I trust things are well.

Attached is the Argyle ADA Steering Committee summary of discussion from February 26th, 2021. Also attached is the slide I used to guide our discussion on *next steps for the ADA pilot project*. Additionally, the minutes from the most recent Data Committee meeting are attached.

Thanks again, Lynn, for taking minutes during our Steering Committee meetings.

For clarity, below are the action items that were identified from the meeting:

Action 1 - Define Layers within weighted overlay - [redacted] advised that they have a draft in laymen terms, but it needs a few minor adjustments. He will share this with the committee later today.
Action 2 - [redacted] will look for some information on the tracking of lobster, there is a lot of information for this from PEI. On February 26, 2021 he advised that he has requests out but has not received any info yet.
Action 3 – Charlene to share an electronic copy of the brochure that she and Alix created.
Action 4 – [redacted] will reach out to Acadian Sea Plants and Tidal Organics for engagement on the ADA.
Action 5 - Charlene will meet with Shawn to see where the organization is with the discussion.
Action 6 - [redacted] to ask marine protected area staff about the subject of getting letters of support for planning initiatives.
Action 7 – [redacted] to provide the link for the DFA videos once uploaded to the government site.
Action 8 - Alix has scanned the stakeholder maps, he will be digitizing the areas and he will share it with Matt and [redacted] to use in the weighted overlay.
Action 9 – Matthew to ask Tim Webster costs of flying Lidar. We could explore this to see if it is something we can pursue, given the cost.
Action 10 - Alix, [redacted] and Matt will have a follow up on the Spiri Robotics proposal.
Action 11 - [redacted] to bring the articles up and he will share them with the committee.

Please let me know if you have any questions.

Take care,

Matthew King, MMS
Aquaculture Planning & GIS Officer
Nova Scotia Department of Fisheries and Aquaculture

1575 Lake Road
Shelburne, NS
B0T 1W0
P: (902) [redacted]
C: (902) [redacted]
F: (902) [redacted]
E: Matthew.King@novascotia.ca
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From: Charlene LeBlanc
To: Bruce.Hancock@novascotia.ca; [redacted]
Cc: Alain Muise
Subject: Aquaculture/Business park on the Sea
Date: May 1, 2018 8:34:00 AM

Good morning.
Today we had plans to get some more water testing done, but had to postpone until the weather is more agreeable. It's impaerativbe that we get out in May so we can map the lobster buoys.

We have added 3 sites to the next two round of sampling; one site is in Salt Bay (may as well sample that water as the oysters there are growing faster than Eel Lake, and we will know how the other sites compare), and the other is just outside Salt Bay.

The third site is one that a potential investor and I went out to have a look at last week. He is interested in scallop ranching, Kelp, and oysters. He has the means and boat. He is eager and "has his running shoes on and tied". We had a conference call with [redacted] and we had initially planned to go visit them and a few farmers in August, but he now wants to go in May.

I have a few questions:

1. Who do we now see for the initial meeting regarding a lease, now that [redacted] is not there?
2. Is there anything we can assist you with when it comes to the province/Argyle "preapproved lease" project?
3. Is there scallop ranching in our province?

Thanks !

CHARLENE LEBLANC
Community Development Officer
27 Courthouse Road / PO Box 10
Tusket, Nova Scotia B0W 3M0
902-648-2623 [redacted] [redacted]
cleblanc@munargyle.com
www.munargyle.com

From: Charlene LeBlanc
To: [redacted]
Cc: Bruce.Hancock@novascotia.ca; Alain Muise
Subject: RE: Aquaculture/Business park on the Sea
Date: May 1, 2018 4:27:00 PM

Wonderful ! Thanks for the information. I didn't realize [redacted] had replaced you. I have met him before and will be in touch with him.

The potential lease area is a 40 acre body of water called "the Basin", off of Morris Island; and yes, if he pursues this, it will not be a part of the development area.
If you can, I would appreciate a copy of AANS scallop ranching report.

As for a meeting with the minister, I will let Alain send a list of attendees and possible dates.

As for meeting with you regarding the information collected, I would like to meet soon, in case I am missing something crucial. I will be in touch with you soon. Thanks !

Charlene

From: Charlene LeBlanc
To: King, Matthew S; Alix d"Entremont; Cook, David
Cc: [redacted]
Subject: RE: Argyle aquaculture site info
Date: January 21, 2020 11:13:00 AM

We are currently organizing the data by site, rather than date.
Once we have the pictures, and drone added to it, we will send it off before the end of the week.
Charlene

From: King, Matthew S <Matthew.King@novascotia.ca>
Sent: Tuesday, January 21, 2020 10:53 AM
To: Charlene LeBlanc <CLeblanc@munargyle.com>; Alix d'Entremont <gistech@munargyle.com>; Cook, David <David.Cook@novascotia.ca>
Cc: [redacted] <[redacted] [redacted] <[redacted]
Subject: RE: Argyle aquaculture site info

Thanks Charlene. [redacted]

I've cc'd [redacted] to this response. This will help in their workplan preparation; they will likely be reaching out to you soon about sharing data etc.

Picking location(s) will be an agenda item in our February 4th meeting. Finalizing areas of interest is key to moving this project forward.

Good news on the MOU; pretty exciting!

Matthew
P: (902) [redacted]
C: (902) [redacted]
E: Matthew.King@novascotia.ca
This email including any attached files contains confidential and privileged information and is intended for a specific individual and purpose. If you are not the intended recipient, you are hereby notified that any use, disclosure, copying, distribution, or taking of any action in reference to the contents of the information contained in this email or any attached files is strictly prohibited. If you have received this communication in error, please contact the sender immediately and delete this message along with any attached files from your system.

From: King, Matthew S
To: Alix d"Entremont
Cc: [redacted] Charlene LeBlanc; Cook, David
Subject: Re: Mun. of Argyle Aquaculture Development Area Data
Date: January 29, 2020 9:31:45 AM

Thanks Alix;

I'm forwarding to Dave Cook as well.

Thanks again,

Matthew King
19028756064

On Jan 29, 2020, at 9:29 AM, Alix d'Entremont <gistech@munargyle.com> wrote:

> ** EXTERNAL EMAIL / COURRIEL EXTERNE **
> Exercise caution when opening attachments or clicking on links / Faites preuve de prudence si vous ouvrez une pièce jointe ou cliquez sur un lien
>
> Attached is:
>
> - **Water Testing Data.xlsx** by Université Sainte-Anne and the Municipality of the District of Argyle for 20 sites with a range of June 15, 2017 to Dec 4, 2019 (Temperature, pH, Dissolved Oxygen, Salinity, Chlorophyll, Phytoplankton…)
> - **MapPoints.kmz** a KMZ file of the data in the previous bullet
> - **Water Temperature-Old Pt Channel and Tucker Island** by NS Dept. of Fisheries and Aquaculture for two sites (Old Pt. Channel and Tucker I.) with a range of Feb 19, 2016 to Mar 20, 2018.
> - **Preliminary Feasibility Assessment for Tidal Energy Development in MoDA** with flow speeds (pp. 19-20)
>
> Will be delivered on Feb 4, 2020 by Charlene:
>
> - Underwater GoPro video of the 4 corners and transects along the middle of 3 lease sites currently being applied for by [redacted] (Bar Rock, Calf Island and Fox Island).
> - UAV Video of Salt Bay, Widgegums, Indian Bay, Indian Suice Bridge, Indian Sluice Bay, Bar Rock, Calf Island, Mikes Island, and Glenwood Bay.
>
> **Alix d'Entremont**
> *GIS Technician*
> Municipalities of Argyle and Yarmouth
>
> 27 Courthouse Road

Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office [redacted]
Mobile [redacted]
gistech@munargyle.com

<Water Testing Data.xlsx>

<Preliminary Feasibility Assessment for Tidal Energy Development in the M....pdf>

<Water Temperature-Old Pt Channel and Tucker Island-All Data.xlsx>

<Water Temperature-Old Pt Channel and Tucker Island-Monlty Averages.xlsx>

<MapPoints.kmz>

From: [redacted]
To: [redacted]
Cc: [redacted] Matthew King; David Cook; [redacted] Alix d"Entremont
Subject: List of layers and references - ADA
Date: May 7, 2020 12:34:50 AM
Attachments: List of Layers and References_18122019.docx
Criteria and Concerns_Aquaculture_23042020.xlsx
IndianSluice_Hydraulic Study_CBCL.pdf
Preliminary Feasibility Assessment for Tidal Energy Development in the M....pdf
Water Temperature-Old Pt Channel and Tucker Island-All Data.xlsx
Water Temperature-Old Pt Channel and Tucker Island-Monlty Averages.xlsx
Water Testing Data.xlsx
2017-10 - Salt Bay Current Sample.PNG
2017-10 - Salt Bay Current Speed and Direction.xlsx

Hi [redacted]

Please see the attached criteria and concerns shown during our meeting as well as a list of a few layers and websites. There are also some spreadsheets detailing water quality data.

Best regards,

[redacted] M.Sc.

[redacted]
27 Parker St., COVE
Dartmouth, NS B2Y 4T5
Office: (902) [redacted] ext. [redacted]
Mobile: (902) [redacted]

CENTRE FOR MARINE APPLIED RESEARCH

From: [redacted]
To: david.cook@novascotia.ca; jessica.feindel@novascotia.ca; [redacted]feindel@novascotia.ca; matthew.king@novascotia.ca; Alix d"Entremont; Mosher, Todd Donald
Subject: RE: [EXTERNAL]ADA Baseline Sonar Data Collection
Date: June 17, 2022 9:27:28 AM

Thanks for the update David. 600 GB. Wow.

Cheers,

[redacted] PhD
[redacted]
Office [redacted]
Cell [redacted]
[redacted]

From: Cook, David <David.Cook@novascotia.ca>
Sent: June 17, 2022 9:25 AM
To: jessica.feindel@novascotia.ca; [redacted]feindel@novascotia.ca; matthew.king@novascotia.ca; Alix d'Entremont <gistech@munargyle.com>; [redacted] <[redacted] Mosher, Todd Donald <Todd.Mosher@novascotia.ca>
Subject: [EXTERNAL]ADA Baseline Sonar Data Collection

Hi all,
Thought I would send along a quick update on the progress of the ADA baseline sonar scanning work that was going on this week. Todd and I were more-or-less able to stick to the estimated plan, completing Pubnico Harbour on Monday, the east side of Lobster Bay on Tuesday, Tusket River on Wednesday and finishing up with Indian Sluice and some other outliers yesterday. All told, we managed to cover areas totalling a little over 900 hectares and collected about 600 GB of raw data. There are 8 small areas remaining in Salt Bay and the Glenwood Bay area that will be completed during a future visit with a smaller vessel. Unfortunately, we were not able to get to the additional Tern feeding area in Pubnico Harbour as it was only accessible at high tide and the timings just didn't work out. We should be able to cover it off at a later date though.

David Cook
Aquaculture Biologist
Department of Fisheries and Aquaculture
Shelburne, NS
O: [redacted]
C: [redacted]

WARNING - This email is originated from **EXTERNAL SENDER OUTSIDE OF** [redacted]

From: King, Matthew S
To: Alix d"Entremont
Subject: RE: Oysters and Eelgrass
Date: September 2, 2022 3:47:34 PM
Attachments: image001.png

Thanks Alix. We appreciate the prompt field work and information.

Take care,

Matthew

From: Alix d'Entremont <gistech@munargyle.com>
Sent: September 1, 2022 11:02 AM
To: King, Matthew S <Matthew.King@novascotia.ca>
Subject: Oysters and Eelgrass

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Matt,

I've attached a UAV image of the area north of Dennis Point Wharf in Pubnico Harbour from Sep 2020 showing lots of eelgrass. This would be an option to test the sonar for eelgrass.

I went to two locations to look for oysters. Each location (with coordinates) has a folder of images in the OneDrive link below.

[redacted]

I think either Eel Lake or Salt Bay may be your best bets for finding the largest beds of oysters within Lobster Bay.

Let me know if you have any questions.

Alix d'Entremont
GIS Technician
Municipalities of
Argyle and Yarmouth

5 Rue J.E. Hatfield Court
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office +1-902-648-2623
gistech@munargyle.com

From: Hancock, Bruce H
To: [redacted] Alain Muise
Cc: [redacted] 2; Smith, Kent; [redacted] Danny Muise; [redacted] Nicole Albright; Scott Surette; [redacted] Alix d'Entremont
Subject: RE: Aquaculture Development Area Pilot Project
Date: May 3, 2024 5:00:15 PM

Hello [redacted] and [redacted]

The Nova Scotia Department of Fisheries and Aquaculture is responsible for the licensing and leasing of commercial aquaculture operations in the province. One of the tools that is available to the Minister of Fisheries and Aquaculture, under the Fisheries and Coastal Resources Act is the establishment of an Aquaculture Development Area.

Our department has led the Argyle Aquaculture Development Area Pilot Project and has collaborated with the Municipality of the District of Argyle (MODA) in its development. The nature of the collaboration was outlined in an MOU signed in February 2020. Essentially MoDA was responsible for community and stakeholder engagement while our department collected and analysed data, sought input and advice from 11 provincial and federal government departments, conducted consultations with First Nations and ultimately made a recommendation to our Minister.

The outcome of our data analysis and consultations have been in the form of suitability maps which have been widely shared during the consultation process. This was important because we wanted to hear from the people that use the marine resource to identify potential conflicts with other marine uses. The final ADA map is the culmination of those consultations. Throughout the consultation process we have been more than happy to explain how we developed the suitability maps and we are certainly willing to answer any specific questions you might have.

We do not have a summary document of our analysis and network partner engagements but would be happy to share any publicly available information with you or answer any site specific questions you might have.

Best regards,

Bruce

-----Original Message-----
From: [redacted] <[redacted]
Sent: Friday, May 3, 2024 1:31 PM
To: Alain Muise <admuise@munargyle.com>
Cc: [redacted] 2 <[redacted] Hancock, Bruce H <Bruce.Hancock@novascotia.ca>; Smith, Kent <Kent.Smith@novascotia.ca>; [redacted] Danny Muise <DMuise@munargyle.com>; [redacted] Nicole Albright <NAlbright@munargyle.com>; Scott Surette <ssurette@munargyle.com>; [redacted] Alix d'Entremont <gistech@munargyle.com>
Subject: Re: Aquaculture Development Area Pilot Project

[Some people who received this message don't often get email from [redacted] Learn why this is important at https://aka.ms/LearnAboutSenderIdentification]

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Hi Alain,

I've followed this email chain from the start and am still trying to process the information that has been shared with us. I'm sorry but I still do not understand the roles and responsibilities of ADA and I still do not understand the roles and responsibilities of the province. Which office recommended the lease locations for the Minister to

approve? Where is the documentation to support this decision? What is the process chain for approval? Are there records of meeting/records of decision attached to this file? Where are they housed?

[redacted] I too have had to respond to requests of this nature and ensured that the questions posed were addressed by the office of principal interest. Who is the OPI?

Why is it so difficult, as a key stakeholder, to obtain this information? The more that [redacted] reasonable questions are not answered, referred to another party or delayed adds to the perception that this process is non-transparent. This only adds fuel to the anxiety fire of the community.

Who is responsible to respond to [redacted] Will you or Bruce be providing this information?

Respectfully,
[redacted]

> On May 3, 2024, at 07:05, Alain Muise <admuise@munargyle.com> wrote:
>
> No. The process was provincial. As I stated in an earlier communication, our role was to lead the public engagement portion of the study. They engagement was informed by potential lease areas which were vetted through public engagement and amended to be part of the reporting the province presented to the minister.
>
> Bruce and I will discuss other reports and see what we can provide you asap.
> Sent from my iPhone
>
>> On May 3, 2024, at 8:59 AM, [redacted] 2 <[redacted] wrote:
>>
>> [Some people who received this message don't often get email from [redacted] Learn why this is important at https://aka.ms/LearnAboutSenderIdentification]
>>
>> I apologize but I'm a bit confused. Perhaps you or Bruce can clarify. I understand the Dept. Of Fisheries and Aquaculture makes the "final" decision on locations. And it appears you confirm a report was indeed submitted with recommended locations. I further understand that a variety of departments were consulted and fed into the process but was a final report (most likely containing background, issue, considerations and recommendations) prepared or authored by the Argyle municipality that summarizes all of this?
>>
>> Thank you,
>>
>> [redacted]
>>
>> Sent from my iPhone
>>
>>>> On May 3, 2024, at 5:44 AM, Alain Muise <admuise@munargyle.com> wrote:
>>>
>>> Received. I will consult with the province to eee what can be done in addition to the info on engagement. I will say that the work was done by a variety of departments but the ultimate decision on locations , final that is, rested with the Minister. A report would have been submitted for that and I will defer to the province as they have info they may suit your request in full
>>> Sent from my iPhone
>>>
>>>>> On May 3, 2024, at 1:26 AM, [redacted] wrote:
>>>>
>>>> Hi Alain,
>>>>
>>>> To clarify, I'm requesting the report on the selection of lease locations. I am requesting how and by whom the decisions were made, and an ADA report or reports should lay this out. As ADA is a partnership/liaison between the municipality and the province, I asked both you and Bruce for this information.

>>>>
>>>> Please refer to my April 28 email: "Can I respectfully request you send me the ADA report that went to the NS Dept of Fisheries and Aquaculture from Argyle that recommended the proposed lease locations announced on April 15th, 2024?"
>>>>
>>>> Does the engagement report offer this? It sounds like it may not. I'm assuming this is the report that logged local feedback that was received including mine.
>>>>
>>>> Please advise.
>>>>
>>>> [redacted]
>>>>
>>>> -----Original Message-----
>>>> From: Alain Muise <admuise@munargyle.com>
>>>> Sent: Thursday, May 2, 2024 2:59 PM
>>>> To: [redacted]
>>>> Cc: 'Hancock, Bruce H' <Bruce.Hancock@novascotia.ca>; kent.smith@novascotia.ca; [redacted] Danny Muise <DMuise@munargyle.com>; [redacted] <[redacted] Nicole Albright <NAlbright@munargyle.com>; Scott Surette <ssurette@munargyle.com>; [redacted] Alix d'Entremont <gistech@munargyle.com>
>>>> Subject: RE: Aquaculture Development Area Pilot Project
>>>>
>>>> [redacted]
>>>>
>>>> We will be posting the engagement report on our public web site on Monday. We will send you the link and you are welcome to it!
>>>>
>>>> Thank you for your patience, we needed to redact for any personal information and this was completed.
>>>>
>>>> Alain
>>>>
>>>>
>>>>
>>>>
>>>> -----Original Message-----
>>>> From: [redacted] <[redacted]
>>>> Sent: Wednesday, May 1, 2024 11:54 AM
>>>> To: Alain Muise <admuise@munargyle.com>
>>>> Cc: 'Hancock, Bruce H' <Bruce.Hancock@novascotia.ca>; kent.smith@novascotia.ca; [redacted] Danny Muise <DMuise@munargyle.com>; [redacted] <[redacted] Nicole Albright <NAlbright@munargyle.com>; Scott Surette <ssurette@munargyle.com>; [redacted] Alix d'Entremont <gistech@munargyle.com>
>>>> Subject: RE: Aquaculture Development Area Pilot Project
>>>>
>>>> [Some people who received this message don't often get email from [redacted] Learn why this is important at https://aka.ms/LearnAboutSenderIdentification]
>>>>
>>>> Good morning Alain,
>>>>
>>>> Would you have an update on making the report available as requested below?
>>>>
>>>> Thank you,
>>>>
>>>> [redacted]
>>>>
>>>> -----Original Message-----
>>>> From: Alain Muise <admuise@munargyle.com>

>>>> Sent: Sunday, April 28, 2024 4:07 PM
>>>> To: [redacted]
>>>> Cc: Hancock, Bruce H <Bruce.Hancock@novascotia.ca>; kent.smith@novascotia.ca; [redacted]
Danny Muise <DMuise@munargyle.com>; [redacted] <[redacted] [redacted] Nicole
Albright <NAlbright@munargyle.com>; Scott Surette <ssurette@munargyle.com>; [redacted]
Alix d'Entremont <gistech@munargyle.com>
>>>> Subject: Re: Aquaculture Development Area Pilot Project
>>>>
>>>> Received. Will examine Monday
>>>> Sent from my iPhone
>>>>
>>>>>> On Apr 28, 2024, at 5:42 PM, [redacted] wrote:
>>>>>
>>>>> Dear, Alain/Bruce,
>>>>>
>>>>> Can I respectfully request you send me the ADA report that went to the NS Dept of Fisheries and
Aquaculture from Argyle that recommended the proposed lease locations announced on April 15th, 2024?
>>>>>
>>>>> Please consider this a formal request.
>>>>>
>>>>> Thank you,
>>>>>
>>>>> [redacted]
>>>>>
>>>>>
>>>>> [cid:image001.png@01DA9982.8A0FF230]
>>>>> [redacted]
>>>>> Phone:+[redacted]
>>>>> WhatsApp: +[redacted] tel:+[redacted]
>>>>> Email:
>>>>> [redacted] mailto:[redacted]
>>>>> [cid:image002.png@01DA9982.8A0FF230]
>>>>>
>>>>>
>>>>>
>>>>>
>>>>> From: [redacted] <[redacted]
>>>>> Sent: Thursday, April 18, 2024 11:50 AM
>>>>> To: Alain Muise <admuise@munargyle.com>; Alix d'Entremont
>>>>> <gistech@munargyle.com>
>>>>> Cc: [redacted] Danny Muise <DMuise@munargyle.com>; [redacted]
>>>>> [redacted] <[redacted]
>>>>> [redacted] [redacted] Nicole Albright
>>>>> <NAlbright@munargyle.com>; Scott Surette <ssurette@munargyle.com>;
>>>>> Hancock, Bruce H <Bruce.Hancock@novascotia.ca>;
>>>>> [redacted]
>>>>> Subject: RE: Aquaculture Development Area Pilot Project
>>>>> Sensitivity: Confidential
>>>>>
>>>>> Thanks Alain,
>>>>>
>>>>> I enjoyed the call with you and appreciate the empathy.
>>>>>
>>>>> For clarity I have added additional detail below (in red font) for clarity of the audience on this email.
>>>>>
>>>>> Regards
>>>>>

>>>>> [redacted]
>>>>>
>>>>>
>>>>>
>>>>>
>>>>> From: Alain Muise
>>>>> <admuise@munargyle.com<mailto:admuise@munargyle.com>>
>>>>> Sent: Wednesday, April 17, 2024 4:48 PM
>>>>> To: [redacted]
>>>>> <[redacted] mailto:[redacted]
>>>>> Alix d'Entremont <gistech@munargyle.com<mailto:gistech@munargyle.com>>
>>>>> Cc: [redacted] mailto:[redacted] Danny Muise
>>>>> <DMuise@munargyle.com<mailto:DMuise@munargyle.com>>; [redacted]
>>>>> ([redacted] mailto:[redacted]
>>>>> <[redacted] mailto:[redacted]
>>>>> [redacted] mailto:[redacted]
>>>>> [redacted] mailto:[redacted] Nicole Albright
>>>>> <NAlbright@munargyle.com<mailto:NAlbright@munargyle.com>>; Scott
>>>>> Surette <ssurette@munargyle.com<mailto:ssurette@munargyle.com>>;
>>>>> Hancock, Bruce H
>>>>> <Bruce.Hancock@novascotia.ca<mailto:Bruce.Hancock@novascotia.ca>>
>>>>> Subject: RE: Aquaculture Development Area Pilot Project
>>>>> Sensitivity: Confidential
>>>>>
>>>>> [redacted]
>>>>>
>>>>> Thank you for our conversation. In the interests of keeping people informed I will summarize what I heard from you today.
>>>>>
>>>>> [redacted] set for major renovation in the coming year.
>>>>>
>>>>> [redacted]

>>>>>
>>>>> [redacted]
>>>>> You love the community and wish to approach your concerns with professionalism and transparency.
>>>>>
>>>>> * Absolutely. I'm not interested in being a problem identifier. I seek to add value and contribute to the community [redacted]
>>>>> You feel that your input on the project was not reflected in the end result, you provided alternative locations in your convos, and reasons why they may be superior than the lease area announced. None of your topics appeared in final.
>>>>>
>>>>> * Honestly, I'm confused why the proposed locations continue to be placed in residential areas. This affects our ability to boat, swim, beachcomb, and more. It also affects Tourism in my opinion. Tourists seek places like Mahone Bay and Lunenburg to see pristine ocean views. They won't stay in Yarmouth and Argyle if we present them with ocean views of harvesting equipment and floating processing plants. While we all promote local seafood, it seems to me that these installations should not be an eyesore for residents (and prevent water access) and visitors (Tourists) to our area. We strongly feel there are alternative areas in Lobster Bay for aquaculture. [redacted] seeing 14-15 proposed sites directly in front of Ye Olde Argyler, one of the nicest restaurants around. I don't think wedding parties will be seeking out an oyster farm as its backdrop in photos. Nor do diners want to see this view in my opinion. Have the decision makers viewed each proposed site and the surrounding areas? It appears they have not.
>>>>> You are concerned that your view will be impacted, but also as an avid water user, you are concerned that this expansion will further encroach, or even alter, sea transportation routes.
>>>>> Alternate transportation routes would likely mean more traffic [redacted]
>>>>> [redacted] due to tides etc. there are
>>>>> a number of recreational travellers in this area [redacted]
>>>>>
>>>>> * Yes it will. High tide is busy for boating in the summer [redacted] For boaters travelling to/from Eel Lake/Eel Book Area from beyond the point (coming from Wedgeport, Sluice Pt, Morris Island, Argyle, Pubnico, etc.) they either travel between Gunning island [redacted] between Salt Bay and Gunning island. If the proposed location is approved, all that traffic will be forced to travel [redacted]. This just increases noise and traffic and ruins [redacted] ability for privacy, swimming, tubing, clamming, kayaking , paddleboarding, and more. It will simply increase the traffic by 100%.
>>>>> You would like to be consulted deeply on the lease application, ideally you would prefer it not there.
>>>>>
>>>>> * Yes please.
>>>>> You are not against business development and encourage proper business growth, would like to see it outside residential vicinity to reduce conflict of use, visibility.
>>>>>
>>>>> * Correct. We are strong proponents of expanding aquaculture in the region as it will promote economic prosperity. I realize this as a business owner. Simultaneously, it should be balanced with the needs of Tourism (which requires unobstructed ocean views and an ability to promote locally grown and harvested seafood). Finally, it should not in our opinions be located in residential areas like [redacted] next to restaurants. I had proposed several areas as alternatives. As an example, there is one place between Abrahams River and the Widgegum Islands where no houses exist and boating traffic is minimal.
>>>>> Willing to participate in a number of discussions around this issue.
>>>>>
>>>>> * [redacted] are anxious to join these conversations and add value (not problem identification). We desire nothing more than to contribute to a solution that works for all.
>>>>>
>>>>> What I committed to
>>>>> Meeting you when you return to the Country.

>>>>>
>>>>> * [redacted]
>>>>> Amplifying your concerns to the proper channels – ie discussion with department of agriculture. Connect proper personnel and info to you.
>>>>>
>>>>> * That would be appreciated if possible.
>>>>> Understanding the likelihood that this lease will be 'taken up' by a
>>>>> developer. (this item may or may not be possible)
>>>>>
>>>>> * We'd request opportunities to join the discussions soon -and before any application is approved. Timeliness is critical in our view. We are only being engaged now at a late stage (pre-approval is done) and would request dialogue with decision makers before further decisions are made. At the risk of sounding conflicting, we feel we have not had ample opportunities as stakeholders in the process to date. We are not arguing whether this was done intentionally or not because we don't know. However, we would ask everyone here to please understand that this is the position we are now in regardless. It has happened, and we are here now. (I would suggest this may be why my emails to date sounded combative. We simply weren't being heard -which is why we so appreciate the call with Alain yesterday and this follow on email for record. This is the first time we feel like we can contribute added value..
>>>>> Understand the size of the lease, and options around it being different (ie , smaller). Leases are normally not issued larger than the site proposed.
>>>>>
>>>>> * Understood.
>>>>> Going to your property for a look-see for myself what your current sight line is.
>>>>>
>>>>> * [cid:image003.png@01DA9982.9DDAEEA0] Please do. The view changes during the seasons and at various tides. During a high course tide, Gunning island is under water and turns into 3 smaller islands. The view between low and high tide is drastically different. I've attached a picture of our view (that I use as my computer screen saver) so everyone here has a better understanding of the land and ocean view.
>>>>> Enquire into transportation conversations led by the Province,
>>>>>
>>>>> * That would be helpful and appreciated thank you.
>>>>> Enquire into provincial policy on advising residents during the public consultation sessions, encourage mail outs to neighbors to ensure knowledge.
>>>>>
>>>>> * It makes sense to us that a proposed site on a map should then go to the land registry or use viewpoint to determine who the taxpayers/owners are for any property in line of site -or is adjacent to the new installation. Letters should then be sent by the municipality to those owners announcing the preapproval process, dates for application, and final decisions. Again, we find it strange to put locations in residential areas, but this letter concept could be entertained at minimum as part of a larger communications strategy. The fact that the same conflict continues to happen over and over in various NS communities, highlights how deficient the process is around this issue.
>>>>> Encouraged you to speak to our elected officials to raise issues, not only rely on what I committed to.
>>>>>
>>>>> * I have reached out to MLA, MP, and Deputy Warden (cc'd).
>>>>> I think this is accurate, feel free to add something if I missed let me know. It was a sincere pleasure speaking with you today, I find email to be a bit emotionless and subject to lots of interpretations that are rarely accurate. Conversation is my preference and I believe we share that sentiment. Agreed. Both [redacted] and I greatly appreciate your time and effort here.
>>>>>
>>>>> [redacted]
>>>>>
>>>>> Sincerely,
>>>>>
>>>>> Alain
>>>>>
>>>>>
>>>>>

From: [redacted]
To: Hancock, Bruce H; [redacted] Alain Muise
Cc: Smith, Kent; [redacted] Danny Muise; [redacted] Nicole Albright; Scott Surette; [redacted] Alix d"Entremont
Subject: RE: Aquaculture Development Area Pilot Project
Date: May 3, 2024 6:28:37 PM

Hi Bruce,

We are asking for the records and documentation of how the suitability maps were created. These are the actual proposed (now preapproved) lease locations which wrap up to the ADA Map.

We are assuming you did not put a map of Lobster Bay on the wall and throw 53 darts to determine the locations. Yet much like a dart, someone selected (targeted) the 53 locations. We'd like to know who and what rationale was applied to this selectivity. Or was it random? It must be documented either in your office or in the Argyle Municipal office. Did the Minister approve these locations based on the ADA map alone, or did the Minister seek the rationale supporting the locations selected? Was this rationale verbalized or documented?

As you and Alain indicated, your teams:
1) Met with industry (current aquaculture farmers) who proposed and influenced their desired locations (which is why many are in residential areas, [redacted]
2) Consulted with provincial and federal departments to determine if any issues exist related to Tourism, navigable waters, detriment to other species, waste, potential disease, and other aspects;
3) Consulted with aboriginal groups; and
4) Consulted with the public. (we appreciate the engagement report that will be posted next week which hopefully expands on this part of the process)

Are you stating that no documentation or records were kept of these meetings, and no report or briefing material was provided to the Minister who made the ultimate decision?

As we see it, this is a project that required good project management governance. This would include a Project Plan; Project Charter; Project Scope Document; Communications Plan, Stakeholder Engagement Plan (including list of stakeholders and interlopers); Governance document; Gannt Charts; and Timeline.

We are not asking for an explanation (at this stage). As per our original outreach, We are requesting a copy of the ADA report that went to the NS Dept of Fisheries and Aquaculture from Argyle that recommended the proposed lease locations announced on April 15th, 2024. We requested this because I would like to review how you collectively came to the ADA map being the culmination of all your consultations. We are formally requesting access to those records; if not a report, any documentation outlining this information would suffice. As the decision affects the public - we, as the public, are making a request to access. Will you provide? I've asked numerous times, but we now seem to be going in circles. I can't help but feel that these responses seem like an attempt to misdirect my request and take us off target. I hope that this is indeed not the case.

As previously stated, and confirmed with all of you that our interest and request is not out of line. Again, we are formally requesting the information and expect to receive it in a timely manner, as time is of the essence for the community.

Sincerely,

[redacted]

-----Original Message-----

From: Hancock, Bruce H <Bruce.Hancock@novascotia.ca>
Sent: Friday, May 3, 2024 3:00 PM
To: [redacted] <[redacted] Alain Muise <admuise@munargyle.com>
Cc: [redacted] 2 <[redacted] Smith, Kent <Kent.Smith@novascotia.ca>; [redacted] Danny Muise <DMuise@munargyle.com>; [redacted] Nicole Albright <NAlbright@munargyle.com>; Scott Surette <ssurette@munargyle.com>; [redacted] Alix d'Entremont <gistech@munargyle.com>
Subject: RE: Aquaculture Development Area Pilot Project

Hello [redacted] and [redacted]

The Nova Scotia Department of Fisheries and Aquaculture is responsible for the licensing and leasing of commercial aquaculture operations in the province. One of the tools that is available to the Minister of Fisheries and Aquaculture, under the Fisheries and Coastal Resources Act is the establishment of an Aquaculture Development Area.

Our department has led the Argyle Aquaculture Development Area Pilot Project and has collaborated with the Municipality of the District of Argyle (MODA) in its development. The nature of the collaboration was outlined in an MOU signed in February 2020. Essentially MoDA was responsible for community and stakeholder engagement while our department collected and analysed data, sought input and advice from 11 provincial and federal government departments, conducted consultations with First Nations and ultimately made a recommendation to our Minister.

The outcome of our data analysis and consultations have been in the form of suitability maps which have been widely shared during the consultation process. This was important because we wanted to hear from the people that use the marine resource to identify potential conflicts with other marine uses. The final ADA map is the culmination of those consultations. Throughout the consultation process we have been more than happy to explain how we developed the suitability maps and we are certainly willing to answer any specific questions you might have.

We do not have a summary document of our analysis and network partner engagements but would be happy to share any publicly available information with you or answer any site specific questions you might have.

Best regards,

Bruce

From: Alain Muise
To: [redacted]
Cc: [redacted] 2; Hancock, Bruce H; kent.smith@novascotia.ca; [redacted] Danny Muise; Nicole Albright; Scott Surette; [redacted] Alix d"Entremont
Subject: RE: Aquaculture Development Area Pilot Project
Date: May 4, 2024 2:45:17 PM
Attachments: responses to questions from residents rocco point.docx

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[redacted] (and [redacted]

Enclosed is a list of the questions I have received, and the answers to each to the best of my ability.

My email was closer to 3 pm today (out time) than I thought it would be . I intended this to be in your hands faster, but I did have to confirm the information for accuracy.

Forgive the informality of the response, I can send a cleaner version next week. I will share this document and send a briefing note to the rest of council informing them of your questions and concerns, and what we responded. Both the Warden and Deputy Warden are copied here.

Giver this a read, and Monday you will have the public engagement document on our website. Sift through, and if there are specific follow up or additional questions, we will seek the answer to those.

Respectfully,

Alain D. Muise, CPA
Chief Administrative Officer

-----Original Message-----
From: [redacted] <[redacted]
Sent: Friday, May 3, 2024 3:18 PM
To: Alain Muise <admuise@munargyle.com>
Cc: [redacted] 2 <[redacted] Hancock, Bruce H <Bruce.Hancock@novascotia.ca>; kent.smith@novascotia.ca; [redacted] Danny Muise <DMuise@munargyle.com>; [redacted] Nicole Albright <NAlbright@munargyle.com>; Scott Surette <ssurette@munargyle.com>; [redacted] Alix d'Entremont <gistech@munargyle.com>
Subject: Re: Aquaculture Development Area Pilot Project

[Some people who received this message don't often get email from [redacted] Learn why this is important at https://aka.ms/LearnAboutSenderIdentification]

Thank you - I will be on the lookout for your response tomorrow.

[redacted]

> On May 3, 2024, at 12:05 PM, Alain Muise <admuise@munargyle.com> wrote:
>
> Your email is received. I am also in receipt of emails from [redacted] directly to me and indirectly sent to your municipal elected representative.
>
> I have answered many questions to the best of my ability.
>
> I will collect remaining questions and respond in a most detailed way from my part before 3 pm tomorrow. This response will be comprehensive. The authority having jurisdiction in this case is as I explained earlier , the province of N.S. I will go in much more detail when I arrive at my workstation.
>
> Our role was definitely to lead the public engagement portion of this 6 year process. Most of the documents you

desire are in the provincial hands and I will seek to expedite this info.
>
> I assure you that I will seek to respond to each of your questions from my perspective and I am confident the province shall fill the gaps.
>
> Stay tuned. I understand you to be anxiously awaiting answers so I will prioritize the work
> Sent from my iPhone

Questions sent by [redacted]

Which office recommended the lease locations for the Minister to approve?

This would be the Department of Fisheries and Aquaculture, Province of NS. The lease locations were recommended by this department, with the influence of various other provincial and federal departments, and including us as Argyle, as our public engagement process would have informed the report.

Where is the documentation to support this decision? What is the process chain for approval? Are there records of meeting/records of decision attached to this file? Where are they housed?

All information related to the decision to approve the ADA would reside with the Department of Fisheries and Aquaculture. Information on the legislation and regulations that governs the aquaculture industry, including the provinces licensing process can be found on their webpage. The process of drafting lease areas, consultation, and reduction of those lease areas will be found in our public engagement report. This report will be online on Monday, and redacted for things like phone numbers, email addresses for former staff etc. all information is intact otherwise, I saw personally to this.

As a retired executive civil servant, I too have had to respond to requests of this nature and ensured that the questions posed were addressed by the office of principal interest. Who is the OPI?

The Department of Fisheries and Aquaculture. All contact information may be found on gov.ns.ca, though you have successfully emailed directors, ministers, and MLA' already, and this means all department staff directly involved would be informed of your queries. While I write this response, I note that Bruce Hancock has responded to your emails, and he is an informed servant in this project.

Why is it so difficult, as a key stakeholder, to obtain this information? The more that [redacted] reasonable questions are not answered, referred to another party or delayed adds to the perception that this process is non-transparent. This only adds fuel to the anxiety fire of the community.

Any questions relayed to us that related to us were responded to efficiently. We would have been cautious to not speak for the department in charge, we are open and willing to speak on our part. I hope that this more comprehensive answer will provide you with a deeper understanding of the process. We are unaware of any other [redacted] community members having 'anxiety fire' on this location currently. We have obtained some positive responses from community members in the area. I made a personal promise to [redacted] that residents within a reasonable area of this potential lease will receive correspondence from us on the matter. Even if we don't control the development on waters, we can control the communication to our taxpayers, and we will.

I want to state that these questions can take time to answer when you are requesting specific reports. I regret any delay and want to assure you that I am in communication with Minister LeBlanc, Bruce Hancock, Councillor Nicole Albright on a daily basis to be sure appropriate information is delivered.

Who is responsible to respond to [redacted]? Will you or Bruce be providing this information?

I believe both parties feel the desire and requirement to respond, as you have received in part from Bruce at the time of my response.

Responses to [redacted] emails, including [redacted] email to Nicole, the following was a summary of his understanding. My responses are below each question.

1) the ADA Aquaculture Lease process starts with the municipality who perform local studies and make recommendations to where these locations will go.

   No. The ADA started with the Municipality expressing an interest in working with the Nova Scotia Department of Fisheries and Aquaculture to expand the shellfish aquaculture industry by creating Nova Scotia's first Aquaculture Development Area. The authority to create an ADA rests with the provincial government. Although the Municipality assisted in the process of helping to identify the sites for the ADA, the ultimate selection was made by the province. As mentioned previously, that decision was also informed by provincial led consultation with 11 other federal and provincial government departments and consultations with First Nations.

   Municipalities were definitely involved at the beginning of the process. No ADA would exist without the interest of the Municipality to provide meaningful business and employment opportunities in our waters. We encouraged the province to partner in this process, and they agreed. Without the municipality, the province would not have commenced this process. Without the Province, we had no process municipally.

   Our involvement was to develop and foster business growth on the sea to diversify our economy. The council approved strategic plan may be found online at

   Priorities and Strategies - Municipality of the District of Argyle (munargyle.com)

   And this plan specifically identifies the diversification of our fishing industry as a critical piece of our work. When I say work, I mean supporting work in the development of the ADA. In areas where others are in the pole position, our role is to encourage, accelerate and assist where we can. Our work included assisting the province in obtaining water samples in various areas in our waters. The location of these leases, while provincially led, would have been influenced by the following factors:

   - Absence of transportation routes in the area, so that traditional transportation routes could be respected.
   - Suitability of the water quality, which requires a certain mixture of nutrients to support oyster growth.
   - Absence of traditional indigenous artifacts or absent of cultural historically significant areas.

- Absence of significant fishing activity, causing significant conflict of use with traditional fishing including but not limited to lobster fishing.
- Environmental issues associated with the location, coexistence with major birding or fishing colonies influenced draft and final lease locations.
- Engagement with existing businesses in the waters now, who have tremendous insight in where oysters can actually grow.
- Public engagement and open houses.

2) Those recommendations go into a report that is sent to the province. (That's the report that will be posted next week, yes?)

I am not aware of a specific report that identifies the sites for an ADA. There is certainly a map indicating the potential lease locations and that would have been widely spread multiple times throughout the process. For example, our staff met one on one with fishing and other stakeholders with that map and reviewed the suitability (or not) of the locations. The Municipality did produce an engagement report that will be posted on our website next week. The process itself has been in the public forum for over 2 years. The province of NS proposed various locations for Oyster and marine plant development (no fin fish or other development was considered). We led the public engagement process but couldn't do it alone. We engaged WSP, a consulting firm to manage advertising and open houses and properly document comments. All public engagement comments were collected in the document submitted to the Minister by Argyle; this will be posted online as late as Monday for public viewing. So, in short, the report you will see posted from us is the Public Engagement report and would not include all the answers you seek. In my discussion with Mister Hancock, he will share additional information that is in the provincial responsibility. I am confident that those elements that can be made public will be. Argyle was not part of the process where the locations were vetted or selected, except our staff collected water samples to assist the province. I can confirm that the locations were presented to the public after the work was done by the province, both initial and final locations.

3) the province accepts these lease locations as preapprovals and receives applications from industry.
A large amount of the assessment of the sites have occurred through the ADA process, but the final approval is still made through the licensing process. The idea behind the ADA is that the applicant would have some features predetermined, but not all. The ADA had deep engagement outlined in the public engagement report, and there is a second engagement opportunity that will be announced. The province shall receive, grade, and accept or reject any application from industry.

4) Applications when received allow for the public to provide a final opportunity for comment.

Also correct. There will be an opportunity to comment. I am unfortunately not aware of a date, but I do know the deadline for applications is June 15th so it would be after that. As stated before, I have committed to informing residents on when that public comment period begins.

5) the Aquaculture Review Board reviews the applications and makes final decision to approve the application. The whole process is unfortunately incentivised to minimize public and community outreach. It feels like we are being victimized.

It is my understanding that applications made in an ADA follow the administrative application process in which case the decision is made by the Aquaculture Administrator and not the review board. I cannot comment as to how one feels about the process. The province has outlined the process. I was indirectly involved in the 6–8-year timeframe from the time of first conversations to the announcement of the ADA. I am directly aware of the work done by our team to leave no stone unturned from an engagement perspective. I trust this will be made evident from the report.

I would strongly disagree that it is incentivised to minimize outreach. The process followed was comprehensive and those leading it were committed to a wholesome discussion. I am intimately aware of the efforts placed to ensure this was not the case. The existence of comments from [redacted] in the report itself lends proof that the public was aware of this process. It is equally true that some engagement did not have the intended result of those providing comments, which appears to be the case in this situation.

I would agree that it is incentivized to support business growth and development, as this was a mutual priority of both Argyle and the Province. But that motivation was balanced with the factors listed above that were important to investigate (transport, environment etc…) and the licensing process would still have to be approved.

Any lease application, regardless of ADA or not, would have gone through a similar vetting system to ensure that business growth doesn't come at the expense of fishing sites, environmental, transport or cultural concerns. A full list of measures can be provided to you, I think, by the province, so my list is not exhaustive, rather illustrative.

Business did have a hand in informing in this process and were part of the engagement. The engagement was all inclusive, tailored to consider the user group of the sea as well as residential concerns. You will note from the report that there were a lot of one-on-one conversations with various interest groups.

If Argyle Municipality collected data, held outreach, met with industry and public, and ultimately made recommendations to draw lease locations on a map, I want to know how that was done. If this report shows this, I'll be happy. If it doesn't, I will unfortunately have to escalate. I also don't

like being put in this ongoing position. My issues are with how the decision was made. Was it open and transparent? Or was it closed to hinder public influence with only the perception of openness offered? Based on the blocking and pushback I have received to date; I'm worried we are going to see that ADA only offered "the perception" of public consultation. If so, why would you tell us to stick with the current process and have our one last shot at being heard? ...The very same process that steamrolled the 53 preapproval locations quietly past us, only offering the perception of public consultation with April 15th being the first time the public were made aware of any locations chosen. ...The same 53 locations industry recommended to ADA. The very same locations where the first 6 of 53 were selected by industry. Industry has had all the influence at our expense. Frankly it's outrageous. Are you really going to support Alain's defense and redirection (refer Chris to the Province)?

Argyle held outreach, met with public, including industry in both aquaculture and other industries. It met one on one with many stakeholders. The location selection was made prior to our outreach. Argyle did not make recommendations to draw locations. Most of our engagement occurred after the locations were preselected. Our work informed the alteration and elimination of certain sites. The details of our open meetings are included in the report that will be live on our site by Monday May 6th at the latest.

A 3-year engagement is not a perception of consultation. The complainant participated in this process. There was no steamroll of the locations. It was not quiet. There are unfortunately many errors in his statement that simply cannot respond to, other than to express their false nature.

Industry had influence for sure. The ADA concept was born specifically with intentions to grow oyster development. Any resident has the right to present their arguments again as this lease application unfolds. Comments on my motivations to redirect and not be transparent are not based in truth and are interpreted as frustration on the part of the proponent. I truly hope that the public engagement report sheds more light on the process.

From: Alix d"Entremont
To: King, Matthew S
Subject: Amended ADA - March 23, 2022
Date: March 23, 2022 11:12:00 AM
Attachments: ADA_Polygons.cpg
ADA_Polygons.dbf
ADA_Polygons.prj
ADA_Polygons.sbn
ADA_Polygons.sbx
ADA_Polygons.shp
ADA_Polygons.shx

Matt,

See the attached Shapefile with modifications that were completed today:

1. Attribute amendment to a lease in the Tusket River
2. Geometry amendment to the lease north of d'Eon Oyster's in Salt Bay
3. Additional lease south of d'Eon Oyster's in Salt Bay.

Alix d'Entremont
GIS Technician
Municipalities of
Argyle and Yarmouth

5 Rue J.E. Hatfield Court
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office [redacted]
Mobile [redacted]
gistech@munargyle.com

From: Alix d"Entremont
To: King, Matthew S
Subject: Oysters and Eelgrass
Date: September 1, 2022 11:01:00 AM
Attachments: image001.png
DJI_0692.JPG

Matt,

I've attached a UAV image of the area north of Dennis Point Wharf in Pubnico Harbour from Sep 2020 showing lots of eelgrass. This would be an option to test the sonar for eelgrass.

I went to two locations to look for oysters. Each location (with coordinates) has a folder of images in the OneDrive link below.

[redacted]

I think either Eel Lake or Salt Bay may be your best bets for finding the largest beds of oysters within Lobster Bay.

Let me know if you have any questions.

Alix d'Entremont
GIS Technician
Municipalities of
Argyle and Yarmouth

5 Rue J.E. Hatfield Court
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office +1-902-648-2623
gistech@munargyle.com

From: Alix d"Entremont
To: King, Matthew S; [redacted]
Subject: FW: Aquaculture Development Area Pilot Project
Date: November 3, 2022 2:27:00 PM
Attachments: image001.png
image002.png
Importance: High
Sensitivity: Confidential

[redacted] and Matt,

The text and images below were sent to me today by a resident of the Municipality with regards to the ADA. The resident has asked that his feedback remain confidential, so I've removed all identifying details. There are a few cases of using the wrong word in his message. For example, it reads "In principle we support the scaling of the fishery…" where he most likely meant "In principle we support the scaling of the aquaculture industry…". I believe they also use "Salt Bay" in some places where they perhaps should have used "Lobster Bay" or similar.

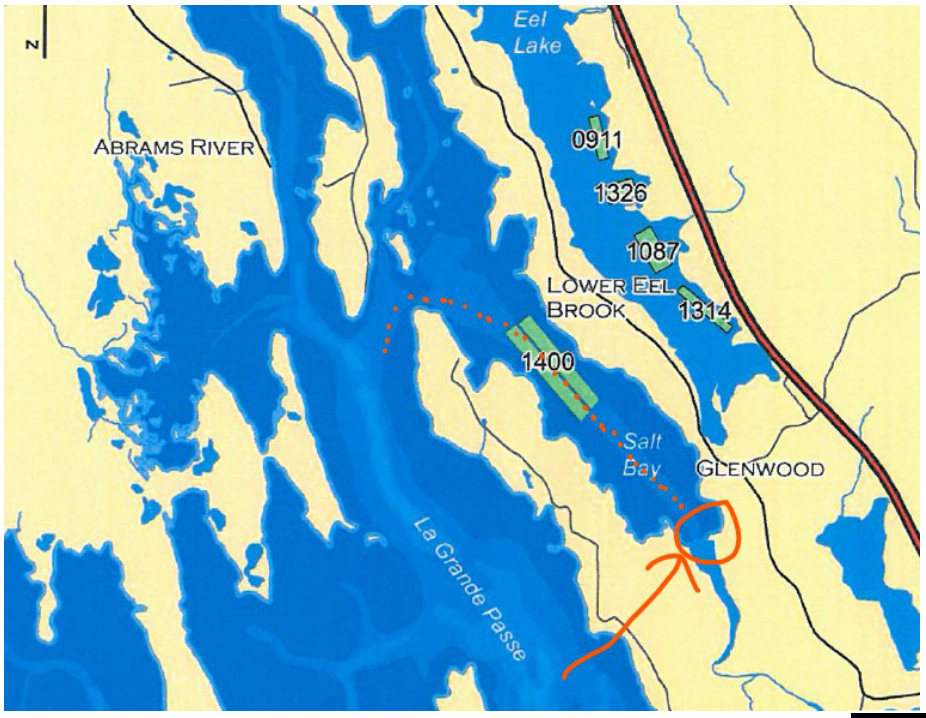
"Confidential"

Hi Alix,

Here is a summary of our concerns and recommendations for expanding aquaculture in Lobster Bay as discussed last week by phone.

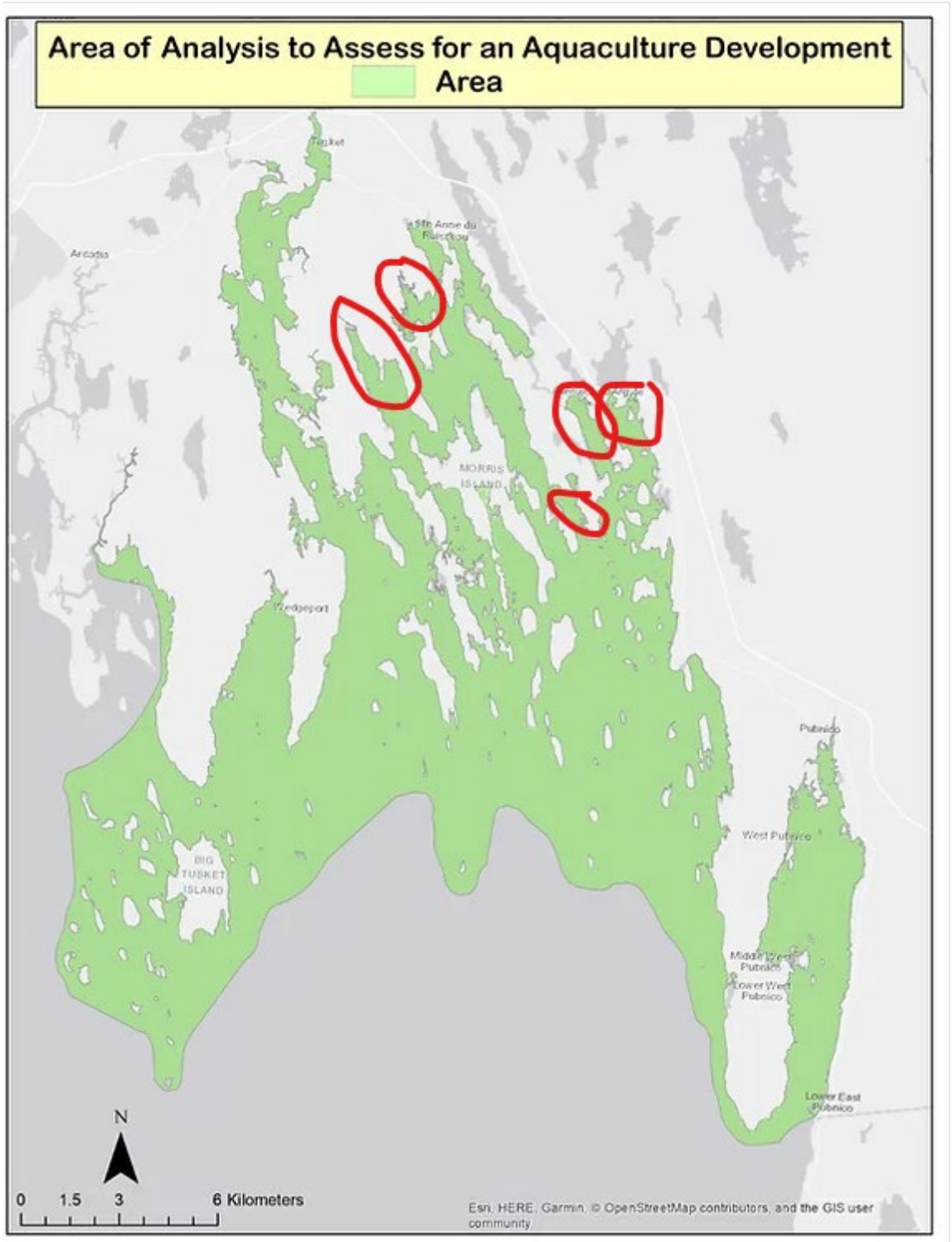
In principle we support scaling of the fishery as long as it is balanced with tourism, recreational boating, swimming, and water access. New farms should be established in areas not populated with residential houses along the water.

1. Archaeological Sites: Greater analysis needs to be done on potential and existing archeological sites. As an example, the oyster farm in Salt Bay has an Acadian Aboiteau (dyke) as circled on the map below. We are not aware if this has been deemed a historic site or not, but the dyke is likely in the range of 300+ years old (built by the original French settlers in the region) and locally known as "the dyke" in our community. Please refer to more information here: https://www.acadian.org/history/acadian-innovations/acadian-aboiteau-dyke/ The Government of Canada recognizes the national historic significance of the Acadian aboiteau system. In addition, Roberts Island along Salt Bay has shellfish (oysters, clams, etc.) middens. Shell middens are cultural spaces located on the mainland and island coasts and were created by Nova Scotia's indigenous people during thousands of years of coastal occupation. These middens are believed to be over 5000 years old. This is an example of inadequate research being done before approval of a license and lease.



2. Locations: As mentioned on our call, I bought my summer house in [redacted] due to its privacy and access to an uninterrupted wilderness and ocean landscape. I now look at a floating commercial fishery in Salt Bay that started along one side of Eel brook which has now expanded to the main channel (deepest water) required for recreational boating – and continues towards the Roberts Island side. In summary, this farm has now overtaken most of Salt Bay. There is a boating access channel required as per the lease and license, but the visibility of a commercial fishery (and floating processing plant) [redacted] now reduces [redacted] property value. Frankly, I'm not pleased about this. At the same time [redacted] taxes are increasing. The municipality can't have it both ways. In addition, I now see farms being established in Grand Passe and alongside Calf Island near Big Sluice. This pass is the main thoroughfare for boating to and from the open ocean. Why are farms being approved in these areas when many other areas are more appropriate and located away from houses or recreational boating and swimming?
    a. NIMBY (not in my backyard): We'd like to see the municipality and government encourage fishers to establish farms in those areas of Salt Bay that are not residential or used for recreational boating and fishing to the same extent as seen in Grand Passe, Big Sluice, Calf Island, and Salt Bay. More appropriate areas include those circled on the map below; Cats Passe, Fools Passe, Amiraults Hill/Sluice Point, Glenwood Bay, Argyle River, and the bay between Widgigum islands and Abrams River. We know applicants seek easy access to the ocean which is why they desire Salt Bay and Grand Passe. It's obvious. Of course they do. But commercialization should be encouraged in areas placed away from the community and residences.
        i. Salinity and Water Depth/Movement: Applicants will suggest the salinity is different in these areas, but I would present that seawater is ~35% parts per thousand in any area of Salt Bay. Eel lake is brackish with lower salinity, but this is where oyster farming first started in the area. Oysters will grow in any of the places mentioned. Water depth alongside Grand Passe/Roberts island, and Salt Bay is relatively shallow. Any chart or sonar will show it's

similar in the areas noted. But fishers won't desire these areas because the access is less convenient. (Residential access has made these areas convenient). Unfortunately, ocean access should be an obstacle for any commercialization, and they need to factor this into their costs. I simply don't want to see them or have them in my back yard. Finally, the movement of water is tidal as we know. On average it's about a 12' tide between low and high. That tidal range doesn't change in any of the areas noted in the bay. So in summary, we'd like to see any expansion of aquaculture move to areas we don't use or see to a great extent. That outcome balances commercial fishing with tourism, and recreational swimming and boating.



I've raised similar concerns with Mr. Robert Ceschiutti from the NS Dept of Fisheries and Agriculture and will likely forward this email to our MPP Colton Leblanc for info. Thank you for taking in our concerns and recommendations. We'd be happy to continue to be a community representative to consult -in order to realize a balance of Aquaculture development with residents. Could I request that this correspondence remain confidential. The views, concerns, suggestions, and recommendations can be shared with internal and external stakeholders but would ask that you/the municipality do not divulge me as the source. I'm not interested in being labelled an adversary of Aquaculture development as that is not accurate or true. We're just seeking "the right" balance.

From: Alix d"Entremont
To: [redacted]
Cc: [redacted]
Subject: RE: Aquaculture Development Area Pilot Project
Date: November 29, 2022 11:07:00 AM
Attachments: image001.png
image002.png
Sensitivity: Confidential

[redacted]

I'm emailing to provide a response to your email on November 3, 2022, regarding the Aquaculture Development Area (ADA). We take your feedback seriously. I want to share a few things in reference to the points that you've highlighted. A spatial decision support tool was used to guide the identification of suitable areas for the ADA. Many of the factors that were included in this tool will be mentioned below.

Tourism: A presentation was given to the Yarmouth and Acadian Shores Tourism Association (YASTA) on Sep 22, 2020. In attendance were representatives of the Ye Olde Argyler, the Yarmouth Chamber of Commerce, and the Le Village historique acadien de la Nouvelle-Écosse. The Municipality has employed Tusket Islands Tours on at least two occasions related to the ADA project, during which details of the project were shared with them.

Recreational Boating: Bathymetric data was consulted and Transport Canada was engaged during our search for suitable sites to preserve navigational routes both for recreational and commercial users. If the ADA project is successful, a review of navigational routes will be undertaken by Transport Canada during the application review phase by the Nova Scotia Department of Fisheries and Aquaculture (NSDFA). Transport corridors identified from marine Automated Identification System (AIS) data and bathymetric data were incorporated in the decision support tool. With reference to the existing American Oyster aquaculture leases in Salt Bay, the site contains a navigational corridor of 15 m in the deepest part of the channel that was imposed by Transport Canada to allow access through Salt Bay (as you've mentioned). A similar requirement would be imposed by Transport Canada for any future lease if required.

Swimming: A dataset of popular swimming locations was created by the Municipality through conversations with staff from various communities and a review of aerial imagery. This was supplemented by a beach dataset from the Department of Fisheries and Oceans (DFO) that were both included in the decision support tool.

Water Access: Water lots from the Nova Scotia Geomatics Centre, anchorage points from Open Data Canada, private wharf structures and Small Craft Harbours from DFO, and port facilities and boat launches from NSDFA were included in the decision support tool. We engaged with both Tidal Organics and Acadian Seaplants to ensure that their concerns regarding access to the coastline was preserved.

Archaeology: Archaeological sites from Nova Scotia Communities, Culture, Tourism and Heritage were included in the decision support tool. Also, the NSDFA is currently consulting with the Mi'kmaq

of Nova Scotia and are engaged in the identification of Mi'kmaq rights both past and present. With reference to the Acadian Aboiteau at the southeast end of Salt Bay, our SONAR work in the area has shown that there is inadequate depth within the potential ADA polygon in this area, therefore, I can tell you that this potential polygon will almost certainly be removed.

La Grande Passe: The three existing American Oyster sites in La Grande Passe are not included in the ADA pilot project areas. Because of these existing leases, no potential ADA areas were identified in La Grande Passe to leave the remainder of the marine area for commercial or recreational users.

Waterfront Views and Property Value: Thank you very much for your comments regarding aquaculture operations near to waterfront properties. We appreciate this feedback and like your other comments, it has been forwarded to the NSDFA. If you are concerned that the assessed value of your property is too high, you can appeal. The appeal information can be found on your assessment notice and at https://www.pvsc.ca/assessment-appeals.

Your Suggested Locations: In your November 3, 2022 email, you include a map of areas that you suggest may be appropriate for aquaculture which includes an area north of the Widgegum Islands, Indian Bay, Glenwood Bay, the Upper Argyle River, and a channel east of Calf Island. Available bathymetric data suggests that the area north of the Widgegum Islands does not offer enough area with adequate depth for farms, especially for marine plants like Sugar Kelp. We do include a potential ADA areas in Indian Bay, Glenwood Bay and the Upper Argyle River where the depth is adequate but also away from the main channels and areas used by lobster fishers. Commercial fishers make use of the channel east of Calf Island, so a potential area was not identified there. We are at a stage in the project where new locations cannot be put forth because that would require a re-engagement with many Federal and Provincial agencies and the Mi'kmaq of Nova Scotia which would introduce an unacceptable delay in the project.

Again, thank you so much for your well-prepared feedback on the ADA pilot project. We certainly do want to balance the need for economic diversification and other competing interests, so your comments will help us in finding this balance. I will let you know if an opportunity arises where you could further represent the interests of the community in reference to this project.

If you'd like to meet with me in person or have a virtual meeting, please let me know. If you'd want to also meet with a representative of the NSDFA, we can also arrange that.

From: [redacted] <[redacted]
Sent: Thursday, November 3, 2022 2:07 PM
To: Alix d'Entremont <gistech@munargyle.com>
Cc: [redacted] <[redacted]
Subject: RE: Aquaculture Development Area Pilot Project
Sensitivity: Confidential

Thank you. I appreciate it.

[redacted]

From: Alix d'Entremont <gistech@munargyle.com>
Sent: November 3, 2022 12:43 PM
To: [redacted] <[redacted]>
Cc: [redacted] <[redacted]>
Subject: RE: Aquaculture Development Area Pilot Project
Sensitivity: Confidential

[redacted] I'm letting you know that I've received your email and will most certainly respect your request for confidentiality. Thank you very much for providing your feedback in writing which will be forwarded onto the NS Department of Fisheries and Aquaculture project team and will be included in some form in the stakeholder report for the Minister. Your name will be removed from the feedback that you've shared.

From: [redacted] <[redacted]>
Sent: Thursday, November 3, 2022 12:50 PM
To: Alix d'Entremont <gistech@munargyle.com>
Cc: [redacted] <[redacted]>
Subject: RE: Aquaculture Development Area Pilot Project
Importance: High
Sensitivity: Confidential

"Confidential"

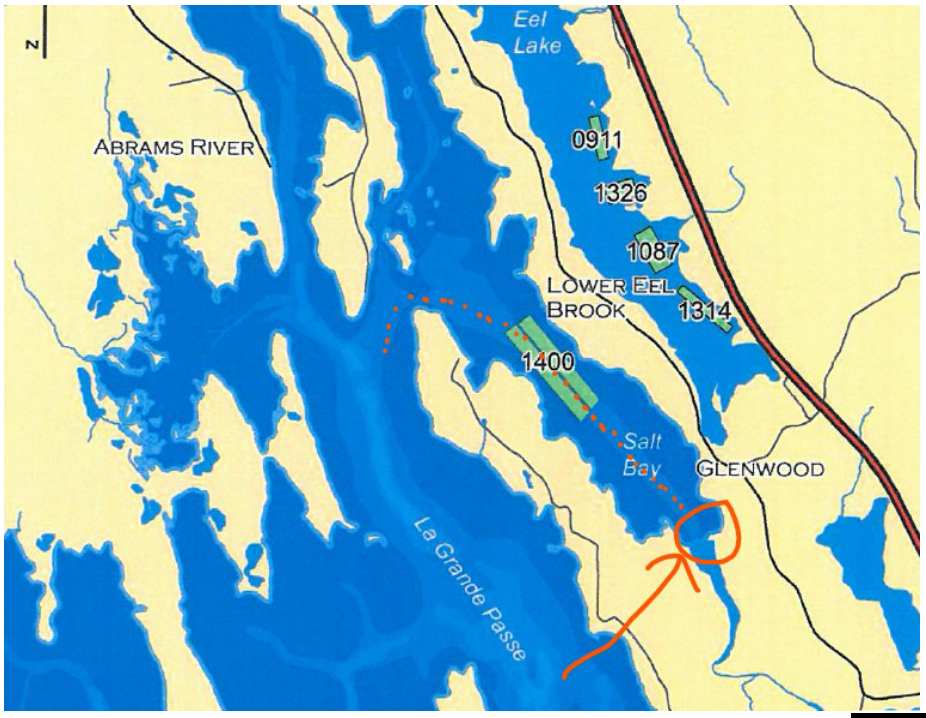
Hi Alix,

Here is a summary of our concerns and recommendations for expanding aquaculture in Lobster Bay as discussed last week by phone.

In principle we support scaling of the fishery as long as it is balanced with tourism, recreational boating, swimming, and water access. New farms should be established in areas not populated with residential houses along the water.

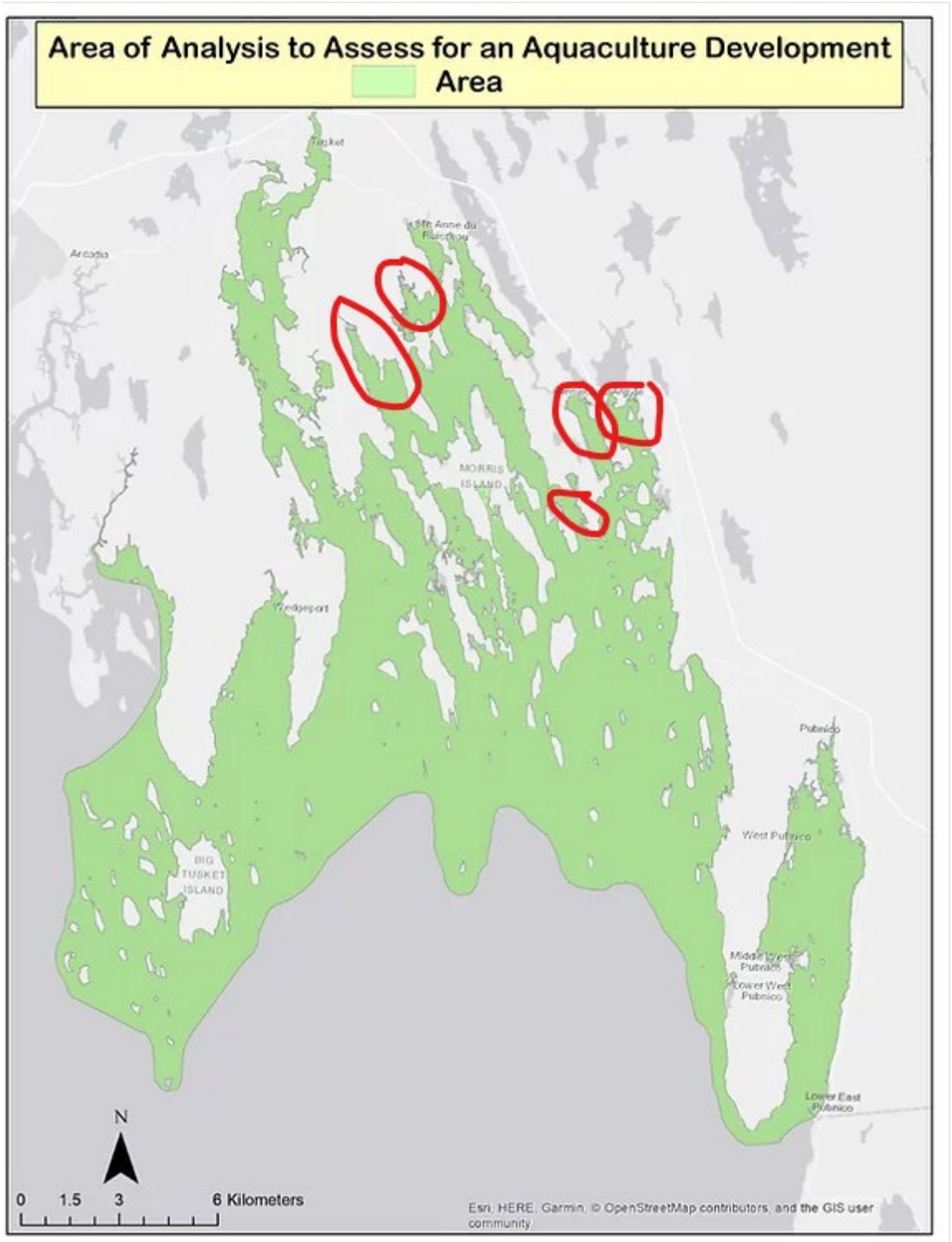
1. Archaeological Sites: Greater analysis needs to be done on potential and existing archeological sites. As an example, the oyster farm in Salt Bay has an Acadian Aboiteau (dyke) as circled on the map below. We are not aware if this has been deemed a historic site or not, but the dyke is likely in the range of 300+ years old (built by the original French settlers in the region) and locally known as "the dyke" in our community. Please refer to more information here: https://www.acadian.org/history/acadian-innovations/acadian-aboiteau-dyke/ The Government of Canada recognizes the national historic significance of the Acadian aboiteau system. In addition, Roberts Island along Salt Bay has shellfish (oysters, clams, etc.) middens. Shell middens are cultural spaces located on the mainland and island coasts and were created by Nova Scotia's indigenous people during thousands of years of coastal occupation. These middens are believed to be over 5000 years old. This is an example of inadequate

research being done before approval of a license and lease.



2. Locations: As mentioned on our call, I bought my summer house in [redacted] due to its privacy and access to an uninterrupted wilderness and ocean landscape. I now look at a floating commercial fishery in Salt Bay that started along one side of Eel brook which has now expanded to the main channel (deepest water) required for recreational boating – and continues towards the Roberts Island side. In summary, this farm has now overtaken most of Salt Bay. There is a boating access channel required as per the lease and license, but the visibility of a commercial fishery (and floating processing plant) [redacted] now reduces [redacted] property value. Frankly, I'm not pleased about this. At the same time [redacted] taxes are increasing. The municipality can't have it both ways. In addition, I now see farms being established in Grand Passe and alongside Calf Island near Big Sluice. This pass is the main thoroughfare for boating to and from the open ocean. Why are farms being approved in these areas when many other areas are more appropriate and located away from houses or recreational boating and swimming?
    a. NIMBY (not in my backyard): We'd like to see the municipality and government encourage fishers to establish farms in those areas of Salt Bay that are not residential or used for recreational boating and fishing to the same extent as seen in Grand Passe, Big Sluice, Calf Island, and Salt Bay. More appropriate areas include those circled on the map below; Cats Passe, Fools Passe, Amiraults Hill/Sluice Point, Glenwood Bay, Argyle River, and the bay between Widgigum islands and Abrams River. We know applicants seek easy access to the ocean which is why they desire Salt Bay and Grand Passe. It's obvious. Of course they do. But commercialization should be encouraged in areas placed away from the community and residences.
        i. Salinity and Water Depth/Movement: Applicants will suggest the salinity is different in these areas, but I would present that seawater is ~35% parts per thousand in any area of Salt Bay. Eel lake is brackish with lower salinity, but this is where oyster farming first started in the area. Oysters will grow in any of the places mentioned. Water depth alongside Grand Passe/Roberts

island, and Salt Bay is relatively shallow. Any chart or sonar will show it's similar in the areas noted. But fishers won't desire these areas because the access is less convenient. (Residential access has made these areas convenient). Unfortunately, ocean access should be an obstacle for any commercialization, and they need to factor this into their costs. I simply don't want to see them or have them in my back yard. Finally, the movement of water is tidal as we know. On average it's about a 12' tide between low and high. That tidal range doesn't change in any of the areas noted in the bay. So in summary, we'd like to see any expansion of aquaculture move to areas we don't use or see to a great extent. That outcome balances commercial fishing with tourism, and recreational swimming and boating.



I've raised similar concerns with Mr. Robert Ceschiutti from the NS Dept of Fisheries and Agriculture and will likely forward this email to our MPP Colton Leblanc for info. Thank you for taking in our concerns and recommendations. We'd be happy to continue to be a community representative to consult -in order to realize a balance of Aquaculture development with residents. Could I request that this correspondence remain confidential. The views, concerns, suggestions, and recommendations can be shared with internal and external stakeholders but would ask that you/the municipality do not divulge me as the source. I'm not interested in being labelled an adversary of Aquaculture development as that is not accurate or true. We're just seeking "the right" balance.

Best regards,

[redacted]
SAR
[redacted]

From: Alix d'Entremont <gistech@munargyle.com>
Sent: November 3, 2022 8:00 AM
To: [redacted] <[redacted]>
Cc: [redacted] <[redacted]>
Subject: RE: Aquaculture Development Area Pilot Project

[redacted]

I'm emailing to make sure that you email me your feedback regarding the Aquaculture Development Area project. Thanks.

From: [redacted] <[redacted]>
Sent: Monday, October 17, 2022 12:21 PM
To: Alix d'Entremont <gistech@munargyle.com>
Cc: [redacted] <[redacted]>
Subject: Re: Aquaculture Development Area Pilot Project

Thank you, much appreciated. I'll be in touch next week [redacted]

Regards

[redacted]

> On Oct 17, 2022, at 4:28 PM, Alix d'Entremont <gistech@munargyle.com> wrote:
>
> Yes, we can certainly have a phone conversation in the next couple of weeks. If you are interested, it would be great to get some comments from you in writing. You can either respond to this email, or fill out the feedback form at www.munargyle.com/feedback. We certainly do want to ensure that your specific concerns are accurately recorded and passed on to the NS Dept. of Fisheries and Aquaculture.
>
> I have not interacted with Mr. Ceschiutti in relation to this Aquaculture Development Area project, however, I have been working closely with other staff members from the department for the last 3 years.

From: [redacted] <[redacted]>
Sent: Monday, October 17, 2022 11:20 AM
To: Alix d'Entremont <gistech@munargyle.com>
Cc: [redacted] <[redacted]>
Subject: Re: Aquaculture Development Area Pilot Project

[redacted] and won't be able to attend on Oct 19th. Can I call you next week to ensure any community concerns or suggestions are received and acknowledged?

I've had an ongoing dialogue with Mr. Robert Ceschiutti From the NS Dept of Fisheries and Agriculture. Has he or the Dept. spoken with you?

Regards

Sent from my iPhone

> On Oct 17, 2022, at 2:21 PM, Alix d'Entremont <gistech@munargyle.com> wrote:
>
> [redacted]
>
> Thank you for your email. For our records, how did you learn of this project?
>
> The Municipality will be hosting two Open Houses related to the Aquaculture Development Area (ADA) pilot project on Wednesday, October 19. These will be in-person informal sessions open to the public where representatives of the Municipality, the Nova Scotia Department of Fisheries and Aquaculture and the Centre for Marine Applied Research will be available to answer questions. We are not offering an online option for the Open Houses. To inform visitors, we will offer a short looping video that explains why the Municipality is working on this project and provides basic details on the ADA. These videos are also available at https://www.aquacultureargyle.com. Maps of the potential areas and informational boards (attached to this email) will be displayed. The public will be able to provide feedback directly to us or leave written comments.
>
> Below are the locations and times.

Glenwood Hall
5832 Highway 3, Glenwood
1:00 pm to 3:00 pm
October 19, 2022

Argyle Municipal Office
5 J.E. Hatfield Crt, Tusket
6:00 pm to 8:00 pm
October 19, 2022

If you can't make the October 19 Open Houses, details and videos related to the project are available at https://www.aquacultureargyle.com. We are also offering public maps of the potential ADA locations and an online feedback form through our website at www.munargyle.com/feedback.

Please let me know if you have any questions.

Alix d'Entremont
GIS Technician
Municipalities of
Argyle and Yarmouth

5 Rue J.E. Hatfield Court
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office +1-902-648-2623
gistech@munargyle.com

From: [redacted] <[redacted]>
Sent: Monday, October 17, 2022 8:51 AM
To: Alix d'Entremont <gistech@munargyle.com>
Cc: [redacted] <[redacted]> [redacted]
<[redacted]>
Subject: Inquiry

Good day,

I'm learning that Argyle is looking into speeding up the development

of oyster expansion.

I [redacted] and would appreciate if I could be represented in a community forum when appropriate or the opportunity presents itself.

I'm generally working outside of NS and may not be able to attend meetings in person. Will I be able to attend virtually?

Thank you

[redacted]
SAR
[redacted]
Phone: [redacted]

Sent from my iPhone

From: Alix d"Entremont
To: King, Matthew S
Subject: Sending Map PDF
Date: April 5, 2024 4:15:00 PM
Attachments: CHS_Chart_32-25x46-5_ForAnnouncement_GMBathy.pdf

---

Matt, the PDF map is fairly large. I made two of them using different bathymetry layers. The bathymetry that I had been using that you had given me had some missing polygons. So I made another with a more generalized bathymetry layer (PDF attached to this email). We should probably use the map with the more generalized bathymetry since it doesn't have that error and you told me not to share the other higher resolution bathymetry that you had sent to me. I need a username and password for that file transfer request that you sent. I'm trying to send the maps by email.

I will send the other version in another email.

Alix d'Entremont
GIS Technician
Municipalities of
Argyle and Yarmouth

5 Rue J.E. Hatfield Court
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office +1-902-648-2623
gistech@munargyle.com

From:	Alix d"Entremont
To:	King, Matthew S
Subject:	RE: Sending Map PDF
Date:	April 5, 2024 4:15:00 PM
Attachments:	CHS_Chart_32-25x46-5_ForAnnouncement.pdf

From: Alix d'Entremont
Sent: Friday, April 5, 2024 4:16 PM
To: King, Matthew S <Matthew.King@novascotia.ca>
Subject: Sending Map PDF

Matt, the PDF map is fairly large. I made two of them using different bathymetry layers. The bathymetry that I had been using that you had given me had some missing polygons. So I made another with a more generalized bathymetry layer (PDF attached to this email). We should probably use the map with the more generalized bathymetry since it doesn't have that error and you told me not to share the other higher resolution bathymetry that you had sent to me. I need a username and password for that file transfer request that you sent. I'm trying to send the maps by email.

I will send the other version in another email.

Alix d'Entremont
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Municipalities of
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Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office +1-902-648-2623
gistech@munargyle.com

From: Alix d"Entremont
To: King, Matthew S
Subject: RE: Sending Map PDF
Date: April 5, 2024 7:40:00 PM
Attachments: CHS_Chart_32-25x46-5_ForAnnouncement_WMS.pdf

Here is the latest version using the WMS. I haven't checked these PDFs very well, so there could be some small errors that I didn't catch. Hopefully it is good enough.

From: Alix d'Entremont
Sent: Friday, April 5, 2024 4:16 PM
To: 'King, Matthew S' <Matthew.King@novascotia.ca>
Subject: RE: Sending Map PDF

From: Alix d'Entremont
Sent: Friday, April 5, 2024 4:16 PM
To: King, Matthew S <Matthew.King@novascotia.ca>
Subject: Sending Map PDF

Matt, the PDF map is fairly large. I made two of them using different bathymetry layers. The bathymetry that I had been using that you had given me had some missing polygons. So I made another with a more generalized bathymetry layer (PDF attached to this email). We should probably use the map with the more generalized bathymetry since it doesn't have that error and you told me not to share the other higher resolution bathymetry that you had sent to me. I need a username and password for that file transfer request that you sent. I'm trying to send the maps by email.

I will send the other version in another email.

Alix d'Entremont
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Municipalities of
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Office +1-902-648-2623
gistech@munargyle.com

From: Colton D"Eon
To: Charlene LeBlanc
Subject: Re: water testing
Date: October 1, 2019 1:41:42 PM

Thank you!

On Oct 1, 2019, at 1:40 PM, Charlene LeBlanc <CLeblanc@munargyle.com> wrote:

> Last week the salt bay test was
> 17.3 degrees
> pH 7.26
> salinity 25.6
>
> [redacted]
>
> CHARLENE LEBLANC
> Community Development Officer
> 27 Courthouse Road / PO Box 10
> Tusket, Nova Scotia B0W 3M0
> 902-648-2623 [redacted] [redacted]
> cleblanc@munargyle.com
> www.munargyle.com

From: Charlene LeBlanc
To: Nolan; nolan[redacted]
Subject: Seawater analysis Salt Bay & Widgegums
Date: December 14, 2018 11:07:00 AM
Attachments: image001.png

Seawater analysis average Results

Salt Bay

	Aug-17	Nov-17	May-18	June 20/18	meter 9-Nov	U Ste Anne Nov 9/18	Average
pH			7.71	7.95	7.55	7.81	7.76
Salinity			17.29	20.1	24.43	26.53	22.09
Ammonia			0.04	0.06		0.032	0.04
Nitrate			0.47	0.47		0.47	0.47
Nitrite			0.5	0.5		0.5	0.50
Phosphorous			0.04	0.022		0.023	0.03
Silicon			0.374	0.458		0.84	0.56
Phytoplankton at 40x			1	2		10	4.33
Phytoplankton at 400x			80	290		780	383.33

[redacted]

CHARLENE LEBLANC
Community Development Officer
27 Courthouse Road / PO Box 10
Tusket, Nova Scotia B0W 3M0
902-648-2623 [redacted] [redacted]
cleblanc@munargyle.com
www.munargyle.com

From: Charlene LeBlanc
To: Nolan; Colton D"Eon; [redacted]
Subject: October 29 2019 water test
Date: October 29, 2019 3:57:00 PM
Attachments: October 29 2019 water test.docx

Have a look, at the sites I was at today.
The Basin is the unclassified body of water right of the Morris Island wharf.

Charlene

SITE	pH	Salinity	Temp	CPHYLL	DO
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
Salt Bay	7.23	25.77	11.45	13.18	107.1
[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

From: Charlene LeBlanc
To: Colton D"Eon
Subject: RE: water testing
Date: November 6, 2019 9:39:00 AM

SALT BAY Oct 29, 2019

Temp 11.45
Orp +0058.1 mV
pH 7.23
DO 107.1 %Sat
DO: 10.79 mg/L
EC: 40.07 mS/cm
TDS: 26.04 g/L
SAL: 25.57 ppt
SSG: 19.5
Cphl: 0013.18 ug
BARO: 1030mb

From: Colton D'Eon [redacted]@hotmail.com>
Sent: Wednesday, November 06, 2019 8:40 AM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Subject: Re: water testing

Hey Charlene,
Do you have a few mins to send over those readings?
Thanks,
Colton

> On Nov 5, 2019, at 10:59 AM, Charlene LeBlanc <CLeblanc@munargyle.com> wrote:
>
> I am home but will give you all my readings from that day when I get back in.
>
> Sent from my iPhone
>
> On Nov 5, 2019, at 10:56 AM, Colton D'Eon [redacted]@hotmail.com> wrote:
>
> [redacted]

From: Alix d"Entremont
To: Charlene LeBlanc; Colton D"Eon
Subject: RE: meeting
Date: June 8, 2021 3:18:00 PM
Attachments: CHS_Chart_32-25x46-5_Shellfish-MarinePlants_ShellfishClass.pdf

Here it is.

From: Charlene LeBlanc <CLeblanc@munargyle.com>
Sent: Tuesday, June 8, 2021 3:06 PM
To: Colton D'Eon [redacted]@hotmail.com>; Alix d'Entremont <gistech@munargyle.com>
Subject: Re: meeting

I will get alix to help. He has the map.

Sent from my iPhone

On Jun 8, 2021, at 3:03 PM, Colton D'Eon [redacted]@hotmail.com> wrote:

Sure.
Are you able to send a pic via email and me and dad could discuss before we see you on Thursday?
Might give us some time to see some potential other areas too.

Colton DEon

www.deonoystercompany.com

Operations Manager

DEon Oyster Company Ltd.

[redacted]

On Jun 8, 2021, at 3:00 PM, Charlene LeBlanc <CLeblanc@munargyle.com> wrote:

I can't do ten-ish. [redacted]
We can try Thursday???

From: Colton D'Eon [redacted]@hotmail.com>
Sent: Tuesday, June 8, 2021 2:50 PM
To: Charlene LeBlanc <CLeblanc@munargyle.com>
Cc: Nolan <nolandeon[redacted]
Subject: Re: meeting

We each have some meetings tomorrow morning but I could do mid morning.
[redacted]

Colton DEon

www.deonoystercompany.com

Operations Manager

DEon Oyster Company Ltd.

[redacted]

On Jun 8, 2021, at 9:37 AM, Charlene LeBlanc <CLeblanc@munargyle.com> wrote:

I see it gives rain tomorrow. Could we meet at 8:30 or 9 tomorrow?
We can come to you with map, or you can come to municipal office, or to my house.

CHARLENE LEBLANC
Community Development Officer
27 Courthouse Road / PO Box 10
Tusket, Nova Scotia B0W 3M0
902-648-2623 [redacted] [redacted]
cleblanc@munargyle.com
www.munargyle.com

From: Alix d"Entremont
To: [redacted]; Colton D"Eon; [redacted]
Subject: Aquaculture Development Area - Stakeholder Committee
Date: April 28, 2022 4:37:00 PM

Committee Members,

Thank you all for your attendance and contributions to today's Aquaculture Development Area (ADA) Steering Committee meeting. As was expressed during the meeting, we take your questions and concerns seriously and would very much appreciate for you to send these to us in writing so that we can gather the information and contact the experts to be able to get back to you with meaningful responses.

I've placed detailed maps showing the potential ADA polygons on Dropbox. The total size of both files is about 40 Megabytes. You can access them via this URL:
[redacted]

[redacted], I will be sending you ESRI Shapefiles of the potential ADA polygons tomorrow in case you have the capabilities of opening these.

We will be circulating the minutes of today's meeting when they are ready and we will be in touch regarding our next meeting.

See you all again at the next meeting.

Alix d'Entremont
GIS Technician
Municipalities of
Argyle and Yarmouth

5 Rue J.E. Hatfield Court
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office +1 902 648 3166
Mobile [redacted]
gistech@munargyle.com

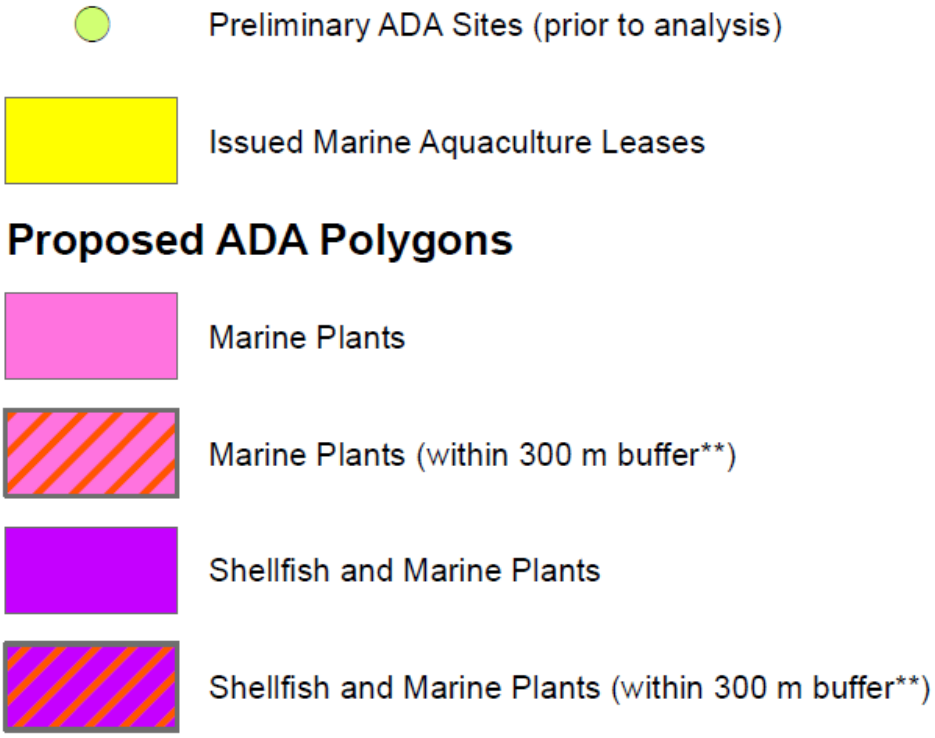
From: Alix d"Entremont
To: [redacted]; Colton D"Eon; [redacted]
Subject: RE: Aquaculture Development Area - Stakeholder Committee
Date: April 29, 2022 8:55:00 AM
Attachments: image001.png

Good morning,

I've got a few more things to share with you in relation to the maps that were emailed to you yesterday. Please let me know if you have any problems accessing the maps through the Dropbox link. If you would like paper copies, please let me know and I'll print some for you. Also, we would like to ask that you don't give either the digital versions or paper versions to other people since it is important for anyone looking at the proposed ADA polygons to also have knowledge of the context surrounding them. Also, through engagements with the Stakeholder Committee team and the fishers, there may be modifications to the proposed ADA polygons before they are presented to the wider public.

I also wanted to provide more details on the features shown on the maps since we ran out of time yesterday. Below you will see the legend for both maps. The "Preliminary ADA Sites" shown as green dots are areas that were tentatively identified as potential areas for the ADA by Charlene LeBlanc and myself prior to the engagement work that we have been doing for the past two years. The "Issued Marine Aquaculture Leases" are the existing marine aquaculture leases and these can also be viewed on the province's Site Mapping Tool. The "Proposed ADA Polygons" in pink and purple are those that have been identified by the ADA team as the proposed polygons following engagements. They are divided into "Shellfish and Marine Plants" and "Marine Plants". The "Shellfish and Marine Plants" polygons are in areas that are classified as "approved" by the Canadian Shellfish Sanitation Program (CSSP) so would allow for both shellfish and marine plants. You can see the CSSP map here. The "Marine Plants" polygons are those that are in areas that are not classified by CSSP, so therefore are not approved for shellfish, so would only allow for marine plants. The polygons with red hashing are those within 300 m of islands with breeding colonial birds. A 300 m buffer where no aquaculture should occur is suggested by the Canadian Wildlife Service around these breeding islands. If it is determined that this buffer is appropriate and should be implemented, then these hashed polygons would be removed from the ADA.

Legend



** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

Please let me know if you require any clarifications.

Thanks and have a good weekend.

From: Alix d'Entremont
Sent: Thursday, April 28, 2022 4:37 PM
To: [redacted] Colton D'Eon [redacted]@hotmail.com>; [redacted]
Subject: Aquaculture Development Area - Stakeholder Committee

Committee Members,

Thank you all for your attendance and contributions to today's Aquaculture Development Area (ADA) Steering Committee meeting. As was expressed during the meeting, we take your questions and concerns seriously and would very much appreciate for you to send these to us in writing so that we can gather the information and contact the experts to be able to get back to you with meaningful responses.

I've placed detailed maps showing the potential ADA polygons on Dropbox. The total size of both files is about 40 Megabytes. You can access them via this URL:
[redacted]

[redacted], I will be sending you ESRI Shapefiles of the potential ADA polygons tomorrow in case you have the capabilities of opening these.

We will be circulating the minutes of today's meeting when they are ready and we will be in touch regarding our next meeting.

See you all again at the next meeting.

Alix d'Entremont
GIS Technician
Municipalities of
Argyle and Yarmouth

5 Rue J.E. Hatfield Court
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office +1 902 648 3166
Mobile [redacted]
gistech@munargyle.com

From: Alix d"Entremont
To: [redacted]; Colton D"Eon; [redacted]
Subject: Aquaculture Development Area - Stakeholder Committee Update - November 2023
Date: November 7, 2023 4:03:00 PM
Attachments: Draft_ADA_Marine_Areas_20231107.jpg

Stakeholder Committee Members,

In late October, the Municipality of the District of Argyle (MoDA) met with the Nova Scotia Department of Fisheries and Aquaculture (NSDFA) to discuss the next steps for the Aquaculture Development Area (ADA). It is the intention of the NSDFA to submit the ADA report and recommendations to Governor-in-Council at the end of November 2023. Governor-in-Council, also known as Executive Council or Cabinet, will ultimately make the decision on the outcome of a potential ADA. With the approval from Governor-in-Council, the Minister of NSDFA can establish an ADA. If the ADA is approved, then the goal of NSDFA is to open the call for proposals in January. The process will involve two phases: a proposal and an application. The proposal phase will include topics such as prior experience and a business plan. The application phase will cover more specific details about the operation including gear layout.

Please refer to the attached draft map showing the draft ADA marine areas, making up the potential ADA. The intent is that these ADA marine areas, if approved, will be phased in over several call for proposals.

MoDA and NSDFA are also discussing a Community Liaison Committee that will likely be formed following the establishment of an ADA. This committee will allow farmers and community members to provide feedback about the ADA and its farms to MoDA and NSDFA. It is important that we continue to engage the local community following the hopeful approval of the ADA and establishment of new shellfish and marine plant operations in our waters.

I will send out further updates once they become available.

Alix d'Entremont
GIS Technician
Municipalities of
Argyle and Yarmouth

5 Rue J.E. Hatfield Court
Tusket, Nova Scotia
B0W 3M0, P.O. Box 10

Office +1-902-648-2623
gistech@munargyle.com

Canada

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

Spectacle Ledge
Widgegums
Fox Island
Indian Bay
Squires Island
Bar Rock
Glenwood Bay
Argyle River
Indian Sluice Bay-Middle
Indian Sluice Bay-Upper
Butte de la Croiz
Calf Island
Mikes Island
Potato Island
Indian Sluice Bay-Lower
Hog's Island
The Basin
Rankins Island
Bar Island
Crazy Island
Etoile Island
Argyle Sound
Murder Island
Pubnico Harbour-Double Island
Pubnico Harbour-Grande Ile

Factors considered for tentative sites

Rank	Name	Location	Shelter	Depth	Homes	Data	History	Wharf
	Argyle River	43.7716, -65.851866	X	X		X		X
X	Bar Rock	43.780978, -65.898401	X	X	X	X		X
X	Calf Island	43.75293, -65.883794	X	X	X	X	X	X
X	Fox Island	43.787545, -65.9092466666667	X	X	X	X		X
	Glenwood Bay	43.77531, -65.867771	X	X	X	X	X	X
1	Indian Bay	43.783971, -65.939166	X	X	X	X		X
2	Indian Sluice Bay-Uppe	43.771502, -65.955979	X	X		X		X
3	Indian Sluice Bay-Midd	43.7620733333333, -65.9441916666667	X	X		X		X
4	Indian Sluice Bay-Lowe	43.741634, -65.935342	X	X		X		X
6	Mikes Island	43.7458316666667, -65.948665	X	X		X		X
	Squires Island	43.779804, -65.984733	X	X	X	X		X
	The Basin	43.7401516666667, -65.8937566666667	X	X	X	X		X
5	Widgegums	43.809047, -65.928016	X	X	X	X		X
12	Hog's Island	43.733677, -65.877146	X	X	X			X
7	Pubnico Harbour-Granc	43.649121, -65.784838	X	X	X		X	X
8	Pubnico Harbour-Doub	43.671713, -65.784643	X	X	X		X	X
9	Pubnico Harbour-Hipso	43.666466, -65.768400	X	X	X		X	X
	Argyle Sound	43.711847, -65.826218	X	X	X			X
	Crazy Island	43.711852, -65.900527	X	X	X			X
	Bar Island	43.711262, -65.911206	X	X	X			X
	Etoile Island	43.707320, -65.887316	X	X	X			X

	Murder Island	43.675329, -66.053518	X	X	X		X
	Spectacle Ledge	43.804749, -66.005037	X	X	X		X
	Butte de la Croix	43.751383, -65.964231	X	X	X		X
10	**Potato Island**	43.748349, -65.869929	X	X	X		X
11	**Rankins Island**	43.734736, -65.849791	X	X	X		X

Blue Lease Approval Pending
Red No Existing Testing Data

Nav routes	Lob Gear
X	X
X	X
X	X
X	X
X	
X	X
X	
X	
X	
X	X
X	
X	
X	X
X	
X	
X	
X	
X	
X	
X	
X	

X

X

X

X

X

File	
Start time	2017-10-05 11:01:00 AM
End time	2017-11-17 10:46:00 AM
System	
Serial number	14934
Model	Workhorse
Frequency (kHz)	614
Firmware version	51.4
Setup	
Mode	1
Number of cells	20
Cell size (m)	0.75
First cell range (m)	1.86
Timing	
Sample time	2017-10-18 10:16:00 AM
Compass	
Heading (°)	190.03
Pitch (°)	4.39
Roll (°)	-3.36
Sensors	
Temperature (°C)	13.80
Pressure (kPa)	79.4
Pressure depth (m)	7.92
Voltage (V)	55.2
Boundary	
Water depth (m)	7.92
Quality	
Built in test (hex)	0



Instrument

Model	Workhorse Sentinel
Serial #	14934
Frequency	600 kHz

Deployment

WaterBody	Salt Bay
Latitude	43.81547
Longitude	-65.9152
Deployment	05-Oct-17
Last Reading	09-Nov-17
Duration (d)	35
Frame	Bottom Mounted Tripod
Altitude (m)	0.6
Site Depth (m)	5.5 - 8.4

Current Profile

Ensemble Interval (s)	900
Averaging Interval (s)	900
Pings/Ensemble	100
Bin Size (m)	0.75
1st Bin Range (m)	1.86

Waves Profile

Ensemble Interval (s)	n/a
Averaging Interval (s)	n/a
Pings/Ensemble	n/a

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2.2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Higher High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 10 metres.

HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

SOURCES: The hydrographic data are shown in the SOURCE CLASSIFICATION DIAGRAM.

For Symbols and Abbreviations, see *Chart No.1*.

LES PROFONDEURS sont en mètres et sont réduites au zéro des cartes (le niveau normal le plus bas), lequel à Wedgeport est de 2,2 mètres au-dessous du niveau moyen de l'eau (NME).

LES ALTITUDES, et les hauteurs libres sont en mètres au-dessus de la pleine mer supérieure, grande marée. Les chiffres soulignés sur les zones asséchantes ou entre parenthèses contre les entités découvrantes sont en mètres au-dessus du zéro des cartes. Les courbes topographiques sont en mètres au-dessus du niveau moyen de la mer. L'équidistance des courbes est de 10 mètres.

SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

SOURCES: Les données hydrographiques sont présentées dans le DIAGRAMME DE CLASSIFICATION DES SOURCES.

Pour les signes conventionnels et les abréviations, consulter *la carte n° 1*.

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

Area/Zone	Origine	Date	Line Spacing / Espacement des lignes
a	CHS/SHC	1964-71	100m
b	CHS/SHC	1980-81	250m
c	BIA/AIH	1951-53	Track/Trajets *

* Leadline Survey/Levé à la ligne de sonde

TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level (Mean) / Niveau moyen de l'eau
	HHWLT/PMB	LLWT/BMI	HHWLT/PMB	LLWT/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
Abbotts Harbour	5.0	0.0	3.5	0.5	2.9
Wedgeport	4.3	0.1	3.0	0.6	2.2
Tusket	4.8	0.2	3.3	0.4	1.8
Pinkney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,65°07'W)	5.1	0.0	4.3	0.8	2.5

CABLES

The symbols for submarine and overhead cables do not differentiate between cables conducting electric power, often at high voltages, and other types of utility cables. Mariners are advised to exercise caution when passing under all overhead cables and to avoid anchoring or conducting seabed operations in the vicinity of submarine cables. The clearance of an overhead cable may differ from it's charted value due to changes in atmospheric conditions, meter levels, and other factors. For additional information, consult *Notice to Mariners No.50* of each year and the appropriate volume of CHS *Sailing Directions*.

CÂBLES

Les signes conventionnels des câbles aux-mêmes et aériens ne font pas différencier les câbles conducteurs d'électricité, souvent à haute tension, des autres câbles de service. Les navigateurs prendront garde en passant sous tous les câbles aériens et éviteront de jeter l'ancre ou d'effectuer des opérations de fond à proximité des câbles sous-marins. La hauteur libre d'un câble aérien peut varier de la valeur cartographique à cause des changements dans les conditions atmosphériques, les niveaux d'eau, et autres facteurs. Pour plus de renseignements, consulter *l'Avis aux navigateurs n° 50* de chaque année et le volume approprié des *Instructions nautiques* du SHC.

FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Exercise Areas. See *Notice to Mariners No. 50* of each year.

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

Limites des zones de pratiques de tir et d'exercices. Consulter l'*Avis aux navigateurs n° 50* de chaque année.

F3

TENTATIVE NO FISHING AREAS (MUD FLATS)

FREQ FEW BUOYS

(MUD FLATS) SEA LEASE

OLD OYSTER SITES

OLD FARM COVE

WEST JEFFREY WRECK

USED TO BE CABLES HERE

F2

F3

TUSKET RIVER

EEL LAKE

SALT BAY

INDIAN BAY

LA GRANDE PASSE

MORRIS ISLAND

ROBERTS ISLAND

ARGYLE RIVER

SURETTES ISLAND

EASTERN PASSAGE

TIDAL BASIN

WILSON ISLAND

WEDGEPORT

LITTLE RIVER HARBOUR

GOOSE BAY

THE SLUICE

LOBSTER BAY

TUSKET ISLANDS

BIG TUSKET ISLAND

BALD ISLANDS

Adjoining Chart 4243 / Carte adjacente

Adjoining Chart 4242 / Carte adjacente

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC/DÉC 26 2003
Corrected to NOTICES TO MARINERS / Corrigé jusqu'à AVIS AUX NAVIGATEURS : 2012-11-09
See *Notices to Mariners* for subsequent corrections / Voir *Avis aux navigateurs* pour les corrections subséquentes

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Commandez les cartes marines à www.shc-chs.gc.ca

METRIC/MÉTRIQUE

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2.2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Higher High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 15 metres.

HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

SOURCES: The hydrographic data are shown in the SOURCE CLASSIFICATION DIAGRAM.

For Symbols and Abbreviations, see *Chart No.1*.

LES PROFONDEURS sont en mètres et sont réduites au zéro des cartes (la marée normale la plus basse), lequel à Wedgeport est de 2.2 mètre au-dessous du niveau moyen de l'eau (NME).

LES ALTITUDES, et les hauteurs libres sont en mètres au-dessus de la pleine mer supérieure, grande marée. Les chiffres soulignés sur les zones asséchantes ou entre parenthèses contre les entités découvrantes sont en mètres au-dessus du zéro des cartes. Les courbes topographiques sont en mètres au-dessus du niveau moyen de la mer. L'équidistance des courbes est de 15 mètres.

SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

SOURCES: Les données hydrographiques sont présentées dans le DIAGRAMME DE CLASSIFICATION DES SOURCES.

Pour les signes conventionnels et les abréviations, consulter *la carte n° 1*.

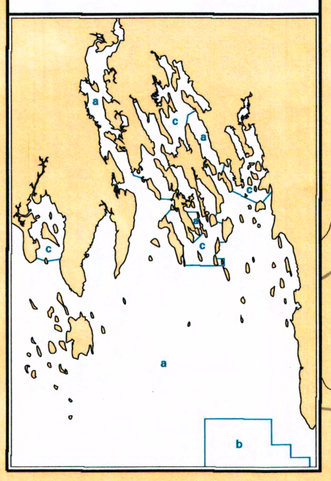
TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHW/PMS	LLW/BMI	HHW/PMS	LLW/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
Abbotts Harbour	3.9	0.0	3.5	0.5	2.0
Wedgeport	4.3	0.1	3.8	0.6	2.2
Tusket	3.8	0.2	3.3	0.4	1.8
Pinkneys Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

Area/Zone	Origin/Origine	Date	Line Spacing / Espacement des lignes
a	CHS/SHC	1964-71	100m
b	CHS/SHC	1960-61	250m
c	BA/AB	1851-53	Track/Trajets *

* Leadline Survey/Levé à la ligne de sonde



CABLES

The symbols for submarine and overhead cables do not differentiate between cables conducting electric power, often at high voltages, and other types of utility cables. Mariners are advised to exercise caution when passing under all overhead cables and to avoid anchoring or conducting seabed operations in the vicinity of submarine cables. The clearance of an overhead cable may differ from it's charted value due to changes in atmospheric conditions, water levels and other factors. For additional information, consult *Notice to Mariners No.16* of each year and the appropriate volume of CHS *Sailing Directions*.

CÂBLES

Les signes conventionnels des câbles sous-marins et aériens ne différencient pas les câbles conducteurs d'électricité, souvent à haute tension, des autres câbles de service. Les navigateurs prendront garde en passant sous tous les câbles aériens et éviteront de jeter l'ancre ou d'effectuer des opérations de fond à proximité des câbles sous-marins. La hauteur libre d'un câble aérien peut varier de sa valeur cartographiée à cause des changements dans les conditions atmosphériques, les niveaux d'eau et autres facteurs. Pour plus de renseignements, consulter *l'Avis aux navigateurs n° 16* de chaque année et le volume approprié des *Instructions nautiques* du SHC.

FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year.

F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

Limites des zones de pratiques de tir et d'exercices. Consulter *l'Avis aux navigateurs n° 35* de chaque année.

STAKES NO. 2

The channel between Little Tusket Island and Hells Gate is marked by stakes.

PERCHES n°2

Le chenal entre Little Tusket et Hells Gate est précisé par des pieux.

STAKES

The channel between Wedge Point and the public wharf at Lower Wedgeport is marked by stakes.

PERCHES

Le chenal entre Wedge Point et le quai public à Lower Wedgeport est précisé par des pieux.

TENTATIVE NO FISHING AREAS (MUD FLATS)

FRESH FLOW BUOYS

OLD OYSTER SITES

OLD FARM EQUIP.

WEST JEFFREY WRECK

USED TO BE CABLES HERE

(WRECK SEA LEAVES)

Adjoining Chart / Carte adjacente 4242 (West/Ouest)

Adjoining Chart / Carte adjacente 4210 (East/Est)

Adjoining Chart / Carte adjacente 4243 (South/Sud)

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC / DÉC 26 2003
Corrected to NOTICES TO MARINERS / Corrigé jusqu'à l'AVIS AUX NAVIGATEURS : *2012-11-09*
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Les cartes marines protègent la vie, la propriété et l'environnement marin

METRES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	METRES
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	PIEDS														
FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	BRASSES														

METRIC/MÉTRIC

Cruise the Net/Navigiuez dans Internet
www.charts.gc.ca www.cartes.gc.ca

4244
Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

CANADA
NOVA SCOTIA/NOUVELLE-ÉCOSSE
SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2.2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Highar High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 15 metres.

HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

SOURCES: The hydrographic data are shown in the SOURCE CLASSIFICATION DIAGRAM.

For Symbols and Abbreviations, see *Chart No.1*.

LES PROFONDEURS sont en mètres et sont réduites au zéro des cartes (le marée normale la plus basse), lequel à Wedgeport est de 2.2 mètre au-dessous du niveau moyen de l'eau (NME).

LES ALTITUDES, et les hauteurs libres sont en mètres au-dessus de la pleine mer supérieure, grande marée. Les chiffres soulignés sur les zones asséchantes ou entre parenthèses contre les entités découvrantes sont en mètres au-dessus du zéro des cartes. Les courbes topographiques sont en mètres au-dessus du niveau moyen de la mer. L'équidistance des courbes est de 15 mètres.

SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

SOURCES: Les données hydrographiques sont présentées dans le DIAGRAMME DE CLASSIFICATION DES SOURCES.

Pour les signes conventionnels et les abréviations, consulter *la carte nº 1*.

TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHWMS/PMVE	LLWMS/BMVE	HHWMS/PMVE	LLWMS/BMVE	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
Abbotts Harbour	3.9	0.0	3.5	0.5	2.0
Wedgeport	4.3	0.1	3.8	0.6	2.2
Tusket	3.8	0.2	3.3	0.4	1.8
Pinkney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

Area/Zone	Origin/Origine	Date	Line Spacing / Espacement des lignes
a	CHS/SHC	1964-71	100m
b	CHS/SHC	1960-61	250m
c	BA/AB	1851-53	Track/Trajets *

* Leadline Survey/Levé à la ligne de sonde

CABLES

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CÂBLES

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FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year.

F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

Limites des zones de pratiques de tir et d'exercices. Consulter *l'Avis aux navigateurs nº 35* de chaque année.

STAKES NO. 2

The channel between Little Tusket Island and Hells Gate is marked by stakes.

PERCHES nº2

Le chenal entre Little Tusket et Hells Gate est précisé par des pieux.

STAKES

The channel between Wedge Point and the public wharf at Lower Wedgeport is marked by stakes.

PERCHES

Le chenal entre Wedge Point et le quai public à Lower Wedgeport est précisé par des pieux.

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

Adjoining Chart 4243 / Carte adjacente

Adjoining Chart 4242 / Carte adjacente

Adjoining Chart 4210 / Carte adjacente

Cruise the Net/Naviguez dans Internet
www.charts.gc.ca www.cartes.gc.ca

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC / DÉC 26 2003
Corrected to NOTICES TO MARINERS / Corrigé jusqu'à l'AVIS AUX NAVIGATEURS : *2012-11-09*
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Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

Canada

Fisheries and Oceans Canada / Pêches et Océans Canada

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

Area/Zone	Origin/Origine	Date	Line Spacing / Espacement des lignes
a	CHS/SHC	1964-71	100m
b	CHS/SHC	1940-61	250m
c	RAIA	1851-53	Track/Trajets *

* Leadline Survey/Levé à la ligne de sonde

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2,2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Higher High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 15 metres.

HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

SOURCES: The hydrographic data are shown in the SOURCE CLASSIFICATION DIAGRAM.

For Symbols and Abbreviations, see *Chart No.1*.

LES PROFONDEURS sont en mètres et sont réduites au zéro des cartes (la marée normale la plus basse), lequel à Wedgeport est de 2,2 mètre au-dessous du niveau moyen de l'eau (NME).

LES ALTITUDES, et les hauteurs libres sont en mètres au-dessus de la pleine mer supérieure, grande marée. Les chiffres soulignés sur les zones asséchantes ou entre parenthèses contre les entités découvrantes sont en mètres au-dessus du zéro des cartes. Les courbes topographiques sont en mètres au-dessus du niveau moyen de la mer. L'équidistance des courbes est de 15 mètres.

SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

SOURCES: Les données hydrographiques sont présentées dans le DIAGRAMME DE CLASSIFICATION DES SOURCES.

Pour les signes conventionnels et les abréviations, consulter *la carte n° 1*.

TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHW/PMS	LLW/BMI	HHW/PMS	LLW/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
Abbotts Harbour	3.9	0.0	3.5	0.5	2.0
Wedgeport	4.3	0.1	3.8	0.6	2.2
Tusket	3.8	0.2	3.3	0.4	1.8
Pinaney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

CABLES

The symbols for submarine and overhead cables do not differentiate between cables conducting electric power, often at high voltages, and other types of utility cables. Mariners are advised to exercise caution when passing under all overhead cables and to avoid anchoring or conducting related operations in the vicinity of submarine cables. The clearance of an overhead cable may differ from it's charted value due to changes in atmospheric conditions, water levels and other factors. For additional information, consult *Notice to Mariners No.35* of each year and the appropriate volume of CHS *Sailing Directions*.

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FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year. F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

Limites des zones de pratiques de tir et d'exercices. Consulter *l'Avis aux navigateurs n° 35* de chaque année.

STAKES NO. 2

The channel between Little Tusket Island and Hobs Gate is marked by stakes.

PERCHES N°2

Le chenal entre Little Tusket et Hobs Gate est précisé par des pieux.

STAKES

The channel between Wedge Point and the public wharf at Lower Wedgeport is marked by stakes.

PERCHES

Le chenal entre Wedge Point et le quai public à Lower Wedgeport est précisé par des pieux.

Good

Kiacks?

bed

Nat. grounds

American Oyster Grow. Folded

F:\Maps\Projects\Aquaculture\Aquaculture Development Areas\20220330\20220424Meeting Mat_Main_Hyattville\CHS_Chart_L32-23x44.5.mxd - Date: April 28, 2022

F:\Aqi\Argyle\Aquaculture\Aquaculture Development Area\2022\2023-Meeting - Mat, Kim, Angela\Maps\Argyle_Aquaculture_Development_Area_Map_Portrait_Landscape_Mat_Kim_Angela_2023-01-19.mxd

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Little River Harbour

LITTLE RIVER HARBOUR

TUSKET WEDGE CHANNEL

TUSKET

WILSON ISLAND

CHANNEL

GOOSE BAY

THE SLUICE

LOBSTER BAY

TUSKET ISLANDS

BIG TUSKET ISLAND

SCHOONER PASSAGE

ELLENWOODS CHANNEL

BALD ISLANDS

F2

F3

Adjoining Chart 4243 Carte adjacente

Adjoining Chart 4242 Carte adjacente

Adjoining Chart 4213 Carte adjacente

66° 4'

3'

2'

1'

66°

59'

58'

57'

65° 56'

55'

54'

53'

65° 52'

51'

50'

49'

48'

43° 40'

43° 36'

42'

41'

39'

38'

37'

35'

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

Markings on map made by Aqi d'Ent on May 12, 2022

Cruise the Net/Navigue dans Internet
www.charts.gc.ca www.cartes.gc.ca

4244

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC/DÉC 26 2003
Corrected to NOTICES TO MARINERS / Corrigé jusqu'à AVIS AUX NAVIGATEURS : 2012-11-09
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PUBLISHED BY THE CANADIAN HYDROGRAPHIC SERVICE
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Nautical Charts Protect Lives, Property and the Marine Environment
Les cartes marines protègent la vie, la propriété et l'environnement marin

PUBLIÉE PAR LE SERVICE HYDROGRAPHIQUE DU CANADA
© Ministre des Pêches et des Océans Canada 2003

METRES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	METRES
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102															FEETS
FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17															BRASSES

METRIC/MÉTRIQUE

2022-05-12

Stakeholder Engagement

Who: [redacted], Alain Muise and Alix d'Entremont
Where: Municipality of the District of Argyle Administration Building
When: 12:30 pm to 1:30 pm on May 12, 2022
What: Analysis of polygons.

- [redacted] shared that they had some concerns over the possible overlap with the Kiack fishers in the northern part of the Tusket River. They mentioned that [redacted] would be appropriate to contact regarding the extent of the Kiack operations in the spring. *[Alain texted with* [redacted] *who informed him that no one fishes gaspereau south of Maple Island and that he and his father are the southernmost fishers in the Tusket River (Maple Island)]*
- [redacted] mentioned that the marine plant leases that they are aware of in Maine as in deeper waters than those in the potential ADA areas.
- The potential risk of importing invasive species when bringing American Oyster spat from other areas (e.g., PEI) [redacted]. They mentioned the name of a program, but I didn't write it down.
- [redacted] mentioned the "Billion Oyster Project" in New York Harbour as an example of the beneficial impacts that oysters can have to water quality.
- [redacted] said that a closed area (Canadian Shellfish Sanitation Program) in Eel Lake appears to be growing. This area is near the homes of [redacted]. Is anyone looking into this? A possibility of effluent from sewer systems getting into the lake?
- [redacted] shared that it would be very beneficial to future growers if experimental leases were implemented. For example, they attempted to grow American Oysters in Glenwood Bay (and south of McKinnon's Neck) and Goose Bay, but they did not grow. There is a risk that a similar result could occur in other areas. To limit the risk to future investors, it would be wise to have several experimental leases to confirm/deny the viability of the various ADA regions.
- [redacted] expressed that in Maine it takes about 30 days to get an experimental lease for oysters. Why could NS not be more similar to this?
- [redacted] said that some ADA polygons are on mud flats. The issue with oysters being exposed at low tide stems from the freezing risk during winter.
- [redacted] believe that American Oysters will grow in the Tusket River and in Indian Bay because there are naturally growing American Oysters in those locations.

AGENDA

Aquaculture Development Area (ADA) Stakeholder Committee Meeting

Municipality of the District of Argyle

Thursday, June 23, 2022

Via Zoom at 2:00 pm

https://us02web.zoom.us/[redacted]

1. Local stakeholder engagement update
2. NSDFA federal/provincial engagement update
3. Concerns/Questions and Responses from last meeting
4. Next steps for ADA pilot project
5. Next steps for this committee

MEETING PRESENTATION NOTES

Aquaculture Development Area Stakeholder (ADA) Committee Meeting
Municipality of the District of Argyle
Thursday, June 23, 2022
Via Zoom at 2:00 pm

While this zoom meeting is set for 2:00 pm to 4:30 pm, I foresee is finishing earlier than that.

I'd like to let everyone know that we will be recording this session to allow for accurate minute taking.

1. **Local stakeholder engagement update**
    a. MoDA continues with the local engagement and has now met one-on-one with 13 lobster fishers and 3 oyster farmers to get feedback on the ADA polygons. These meetings make use of the ADA polygon maps and are extremely effective at getting very detailed information on which areas that may be problematic for the fishers and farmers. Concerns are mainly related to lobster fishing areas and navigation routes. The maps are marked on by me to represent the feed back that we've received. Fishers and farmers would often recommend other lobster fishers that should be contacted, most of which we had already spoken to. Several lobster fishers showed interest in marine plants because the work could be done by them without disrupting their lobster fishing work. One of the questions by interested fishers is: where could we sell our harvest? I know that there is a market for sugar kelp on the US east coast. Would either [redacted] have any comments regarding their company's interest in marine plants like sugar kelp?
    b. A one-pager update on the ADA was emailed to the following organizations.
        i. Roseate Tern Working Group
        ii. Brazil Rock Lobster Association
        iii. Coldwater Lobster Association
        iv. Southwest Nova Scotia Biosphere Reserve
        v. Aquaculture Association of Nova Scotia
        vi. Sea Kayaking Symposium
        vii. Nova Scotia Community College
        viii. Nova Scotia Bird Society
        ix. Delta Waterfowl
        x. Yarmouth and Acadian Shore Tourism Association
        xi. Yarmouth-Shelburne Gaspereau Advisory Group
        xii. Atlantic Coastal Plains Flora Provincial Recovery Team
    c. The one-pager was not sent to the Tusket River Environmental Protection Agency or the Southwest Nova Scotia Paddlers Association because we have members of these groups in the Stakeholder Committee.
2. **NSDFA federal/provincial engagement update**
3. **Concerns/Questions and Responses from last meeting**
4. **Next steps for ADA pilot project**
    a. Continued fisher engagements

b. We will likely have public engagement through various methods (e.g., Facebook, website, questionnaires, videos)
c. We intend on having Public Open Houses later this summer or early fall

5. **Next steps for this committee**
    a. Have a meeting following open houses to discuss the results of the various engagement methods.

Aquaculture Development Area

Stakeholder Committee Meeting Questions, Concerns, and Responses

Municipality of the District of Argyle

Created by Alix d'Entremont (unless otherwise stated) May-June 2022

This document lists questions and concerns raised by members during and after the April 28, 2022, Aquaculture Development Area (ADA) Stakeholder Committee Meeting that were not previously responded to as well as responses from the Municipality of the District of Argyle (MoDA) and the Nova Scotia Department of Fisheries and Aquaculture (NSDFA).

1. **Question/Concern ([redacted] Tidal Organics)**
   There is a potential for impacts to rockweed harvesting activities at the harvesting sites, however, details on the type and distribution of gear compared to the rockweed beds would be required to allow for an accurate assessment.

   Response
   Is there a minimum distance from a refence like the high or low water mark that should separate the closest point of an aquaculture lease in the areas where rockweed harvesting occurs?

2. **Question/Concern ([redacted], Tidal Organics; [redacted], Acadian Seaplants)**
   Both [redacted] were concerned about access to wharf infrastructure. Their harvest operators use the wharves to dock their boats and to unload the rockweed.

   Response
   NSDFA is currently engaging with Dept. of Fisheries and Oceans (DFO) on this subject.

3. **Question/Concern ([redacted], retired Biochemist and Molecular Biologist)**
   There are two concerns that I want the committee to consider thoroughly in expanding aquaculture in the Lobster Bay and other areas adjacent to it. First, the integrity of these areas as an ecological environment, which to me is the basis of all sustainability measures including species diversity and economic sustainability. Second, the quality of the products (the species cultured). As Lobster Bay is the estuary of 2 river systems, Argyle and Tusket river, monitoring and controlling the water quality of the river upstream is also important.

   I want to emphasize specifically on the crucial roles of microalgae for maintaining a healthy marine ecosystem. Microalgae known also as phytoplankton are primary producers of oxygen, and together with bacteria, they form the base of the food web. In addition, microalgae are also an important source of high quality of proteins such as Omega 3 and other nutraceutical/ pharmaceutical potentials such as antioxidants and immune modulator. Hence, they do have a high economic and health value. In my opinion, before introducing any change of the marine environment that may result in losing valuable species, it is important to conduct a thorough inventory of the microalgae population.

   In 2018, I did a preliminary microscopic identification of microalgae from Lobster Bay. I found numerous important species such as Arthrospira (spirulina), Chlorella spp, Dunaliella salina, etc.

On the other hand, there are certain microalgae species such as Cyanobacteria and Dinoflagellates that cause harm when they bloom (grow excessively). Not only will they deplete the oxygen but also could release toxins such as saxitoxin that causes PSP (Paralytic Shellfish Poisoning). Therefore, to prevent the loss of valuable microalgae species as well as harmful algae blooming, besides doing microalgae species identification, it is also important to do thorough environmental analysis such as biogeochemical content and the impact of the parasites (worms, bacteria, viruses, etc) that may come from the aquaculture.

Because of the time constraint, I can not possibly scrutinize all proposed aquaculture sites. However, I have a deep concern for placing aquaculture in the area such as in Pubnico harbour. This area has already had several fishery industries such as fish plants and lobster pounds which produce quite significant waste, and not to mention the (possible) pollution such as oil leak from at least 2 wharves (West and East Pubnico wharves). Therefore, to introduce more waste and possible new parasites that may come from the aquaculture could create possible harmful biological interactions of bacteria, viruses, and other microorganisms.

Thank you for giving me the opportunity to participate in the discussion of Aquaculture Development in this area

Response (from the Centre for Marine Applied Research on behalf of MoDA and NSDFA)
Water quality in Lobster Bay and the proposed ADA is indeed important. The Centre for Marine Applied Research (CMAR) is currently monitoring temperature and dissolved oxygen (and salinity to a lesser extent) in Lobster Bay and the wider Yarmouth area (see here for a summary of available data). CMAR have also collected several water current data sets from Lobster Bay that inform us on hydrodynamics and can support oceanographic models. Nonetheless, additional monitoring in Lobster Bay is planned and several shellfish candidate sites will be modelled to further determine ranges of production carrying capacity, phytoplankton demand, organic deposition, and disease risk. This information will be used to help refine management of the ADA as and when required.

With respect to the potential for parasites and contamination. Shellfish health falls under the purview of provincial aquaculture veterinarians, while the safety of shellfish as a food product is overseen by the Canadian Shellfish Sanitation Program (CSSP) and Canadian Food Inspection Agency (CFIA) as well as Nova Scotia Environment and Climate Changes, Food Safety Division with respect to shellfish retailers. Furthermore, Fisheries and Oceans Canada administers the National Code on Introductions and Transfers of Aquatic Organisms, which provides a consistent process for assessing potential impacts of moving aquatic organisms from one water body or facility to another, and aquaculture falls under this preview. One of the key elements assessed is the potential risk of introduction or transfer of aquatic invasive species and parasites. As for the potential for contamination from oil leaks in Pubnico Harbour, thanks for flagging this, it warrants further investigation.

As for phytoplankton, a consideration for the placement and development of shellfish leases and ADAs is to ensure they do not exceed environmental carrying capacity. The ecological and environmental interactions of shellfish aquaculture have been relatively well studied. Generally, the filtration activity of bivalves cultured at high densities can potentially reduce suspended organic matter loading. In some turbid areas, these influences have resulted in improved water clarity and quality (Newell and Koch, 2004; Ferreira and Bricker, 2019; Petersen et al., 2019),

which can improve the growth of benthic autotrophs such as eelgrass (Bulmer et al., 2012; Sandoval-Gil et al., 2016). However, operators and regulators also need to consider scenarios where shellfish farms could reduce phytoplankton levels to the extent that might be detrimental for other organisms that feed on phytoplankton. These occurrences are atypical but instances where localized phytoplankton depletion has occurred have been associated with very high densities of mussel culture in bays with low water exchange (e.g., Grant et al., 2008). The potential of oyster culture to impact phytoplankton at a bay-wide scale is limited (Comeau, 2013; Transport Canada, 2013) and oyster culture operations in Nova Scotia assessed to date appear to be operating within their ecological carrying capacity (e.g. Filgueira et al. 2020).

In addition to consideration of environmental interactions shellfish culture in licencing decisions, shellfish farms are managed not only to avoid environmental impacts but also to avoid negative effects on shellfish growth rates which would impact the business (Rosland et al., 2011). These are linked. As phytoplankton is the primary food source for bivalves, a reduction in phytoplankton density can impact the growth rate and condition of cultured bivalves. In fact, condition index (meat weight per unit size) is related to aquaculture intensity (Filgueira et al. 2013) and growth rates have been proposed as indicators for assessing carrying capacity and aquaculture environment interactions (Filgueira et al. 2014). Reduction in growth rates of individual shellfish will prompt operators to reduce culture densities to maintain timing of the production cycle (to reach target market size), which in turn reduces phytoplankton demand. Production capacities are required to be documented in by the operator in their respective Aquaculture Farm Management Plan, which is a legislative requirement and one mechanism carrying capacities can be monitored. Ultimately, there are modeling and monitoring options to ensure carrying capacity is not exceeded, which the Department of Fisheries and Aquaculture is well aware of. Through varying initiatives, the Nova Scotia Department of Fisheries and Aquaculture will continue collaborate with stakeholders and other government agencies to assess, monitor, and collect data that will enable the responsible development and regulation of this area, if the ADA is approved.

Bulmer, R. et al. (2012). Hanging basket oyster farming: assessing effects on seagrass using aerial photography. Aquaculture Environment Interactions, 2(3), 285-292. https://www.int-res.com/abstracts/aei/v2/n3/p285-292/

Comeau, L. A. (2013). Suspended versus bottom oyster culture in eastern Canada: Comparing stocking densities and clearance rates. Aquaculture, 410-411, 57-65. doi:https://doi.org/10.1016/j.aquaculture.2013.06.017

Ferreira, J. G., Bricker, S. B. (2019). Assessment of nutrient trading services from bivalve farming. In A. C. Smaal, J. G. Ferreira, J. Grant, J. K. Petersen, & Ø. Strand (Eds.), Goods and Services of Marine Bivalves (pp. 551-584). Cham: Springer International Publishing, New York, USA.

Grant, J. et al. (2008). A spatially explicit ecosystem model of seston depletion in dense mussel culture. Journal of Marine Systems, 73(1-2), 155-168. <Go to ISI>://000259130000012

Newell, R. I. E., Koch, E. W. (2004). Modeling seagrass density and distribution in response to changes in turbidity stemming from bivalve filtration and seagrass sediment stabilization. Estuaries, 27(5), 793-806. doi:10.1007/BF02912041

Petersen, J. K. et al. (2019). Evaluating chlorophyll depletion in mitigation mussel cultivation at multiple scales. Aquaculture Environment Interactions, 11, 263-278.

Rosland, R. et al. (2011). Modelling growth variability in longline mussel farms as a function of stocking density and farm design. Journal of Sea Research, 66(4), 318-330. doi:http://dx.doi.org/10.1016/j.seares.2011.04.009

Sandoval-Gil, J. et al. (2016). Nitrogen uptake and internal recycling in Zostera marina exposed to oyster farming: Eelgrass potential as a natural biofilter. Estuaries and Coasts, 39(6), 1694-1708. doi:10.1007/s12237-016-0102-4

Transport Canada. (2013). Comprehensive environmental effects determination report for oyster aquaculture activities in New Brunswick. Transport Canada (TC), Moncton, New Brunswick.

4. **Question/Concern ([redacted], TREPA)**
[redacted] emailed with concerns regarding riparian buffers and increasing runoff that could potentially cause an issue to Lobster Bay in the future. She is concerned about wetlands and their degradation. The water from these usually eventually flows into the ocean.

Response
For details related to concerns of water quality in Lobster Bay, please see the response for point # 3 above. In relation to riparian buffers, the Municipality of Argyle By-Laws current do not include a riparian buffer for inland water bodies and rivers. The CAO, Alain Muise, will be bringing up the topic of riparian buffers to Council. The Municipality of Yarmouth, which borders much of the Tusket River and includes a part of the Carleton River, does enforce a 40-foot riparian buffer from their By-Laws.

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2.2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Highar High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 15 metres.

HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

SOURCES: The hydrographic data are shown in the SOURCE CLASSIFICATION DIAGRAM.

For Symbols and Abbreviations, see *Chart No.1*.

LES PROFONDEURS sont en mètres et sont réduites au zéro des cartes (le marée normale la plus basse), lequel à Wedgeport est de 2,2 mètre au-dessous du niveau moyen de l'eau (NME).

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SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

SOURCES: Les données hydrographiques sont présentées dans le DIAGRAMME DE CLASSIFICATION DES SOURCES.

Pour les signes conventionnels et les abréviations, consulter *la carte nº 1*.

TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHWLT/PMGM	LLWLT/BMGM	HHW/PMS	LLW/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
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Pinkney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

Area/Zone	Origin/Origine	Date	Line Spacing / Espacement des lignes
a	CHS/SHC	1964-71	100m
b	CHS/SHC	1960-61	250m
c	BA/AB	1851-53	Track/Trajets *

* Leadline Survey/Levé à la ligne de sonde

CABLES

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CÂBLES

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FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year.

F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

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PERCHES nº2

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STAKES

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Le chenal entre Wedge Point et le quai public à Lower Wedgeport est précisé par des pieux.

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

Adjoining Chart 4243 / Carte adjacente

Adjoining Chart 4242 / Carte adjacente

Adjoining Chart 4210 / Carte adjacente

Cruise the Net/Naviguez dans Internet
www.charts.gc.ca www.cartes.gc.ca

4244

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
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Nautical Charts Protect Lives, Property and the Marine Environment
Les cartes marines protègent la vie, la propriété et l'environnement marin

| | | | |

June 3, 2022

Aquaculture Development Area – Shellfish and Marine Plants

The Municipality of the District of Argyle is working with the NS Dept. of Fisheries and Aquaculture on exploring for what is known as an Aquaculture Development Area (ADA). This document provides a high-level summary of the pilot project.

In the interest of economic growth for the municipality, Argyle Council had identified further development of the aquaculture industry as a priority in 2015. The geography of the municipality may offer many suitable locations to expand the industry, which could in turn aid in the expansion of our local economy. One of the barriers to entry for potential investors is the lengthy and complex provincial License and Lease application process. The primary goal of the ADA is to remove some of the burden placed on investors by shortening and simplifying the application process with the creation of areas that have already been identified as suitable for aquaculture development. The prospective ADA only applies to shellfish (e.g., American oyster, blue mussel) and marine plants (e.g., sugar kelp, dulse) and does not include Atlantic salmon or any other finfish.

In 2020, the Municipality of the District of Argyle and the Province of NS signed a memorandum of understanding that they would collaboratively explore for an ADA in Lobster Bay and Pubnico Harbour and that the Municipality shall lead local stakeholder engagements. These local stakeholders include but are not limited to fishers, American oyster farmers, the tourism industry, people and groups with recreational interests, environmental and conservation groups, rockweed harvesting and processing companies, and the wider public. The NS Dept. of Fisheries and Aquaculture is responsible for engaging with the various provincial and federal departments that require consultations regarding the pilot project like the Dept. of Fisheries and Oceans, Transport Canada, Canadian Wildlife Service, NS Dept. of Environment and Climate Change, and NS Dept. of Natural Resources and Renewables, among others. Additionally, the Dept. of Fisheries and Aquaculture is responsible for Consultation with the Mi'kmaq of NS. Through Consultation and federal, provincial, and local engagements, areas within Lobster Bay and Pubnico Harbour are being reviewed to determine suitability for development of shellfish and marine plant aquaculture. The Municipality is currently in the process of re-engaging with local stakeholders to seek feedback on the potential areas. If your organization is interested in learning more about this pilot project and providing feedback, please contact the Municipality of Argyle by June 24, 2022, at the details below.

Alix d'Entremont
gistech@munargyle.com
902-648-2623

Aquaculture Development Area (ADA)

Shellfish and Marine Plants
Potential Locations

Municipalité d' Argyle Municipality

This map was created by the Municipality of Argyle for the purposes of seeking feedback from the public on the Aquaculture Development Area (ADA) pilot project and potential marine areas chosen. The ADA project is a collaborative effort by the Nova Scotia Department of Fisheries and Aquaculture and the Municipality of Argyle.

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20220916-Public Engagement Large Map\CHS_Chart_32-25x46-5.mxd - Date: October 12, 2022

Legend

Proposed ADA Areas

Note: The Proposed ADA Areas are polygons within the Municipality of Argyle waters that have been identified as potentially being suitable for shellfish and marine plant aquaculture through the Aquaculture Development Area pilot project.

Aquaculture Development Area (ADA)

Shellfish and Marine Plants
Potential Locations

Municipalité d' Argyle Municipality

This map was created by the Municipality of Argyle for the purposes of seeking feedback from the public on the Aquaculture Development Area (ADA) pilot project and potential marine areas chosen. The ADA project is a collaborative effort by the Nova Scotia Department of Fisheries and Aquaculture and the Municipality of Argyle.

N

0 0.5 1 2 3 4 5 6 7 Kilometers

Topographic Layer: 1:10,000 Nova Scotia Topographic Database (NSTDB) - ^NSGC.
Road Layer: 1:10,000 Nova Civic Address File (NSCAF) - ^NSGC.
Place Names: Nova Scotia Geographical Names Database (NSGNDB) - ^NSGC.
ADA Potential Locations: Municipality of the District of Argyle
Nova Scotia Marine Aquaculture Leases: NS Department of Fisheries and Aquaculture
^NSGC: Nova Scotia Geomatics Centre, Amherst, N.S.

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Mailing Address: P.O. Box 10, Tusket, NS, B0W 3M0
Civic Address: 5 Rue J.E. Hatfield Crt, Tusket, NS
Phone: (902) 648-2311

Legend

ADA Potential Locations

- Shellfish and Marine Plants
- Marine Plants

Existing Marine Aquaculture Leases

- Issued Marine Aquaculture Leases

Note: The ADA Potential Areas are polygons within the Municipality of Argyle waters that have been identified as potentially being suitable for shellfish and marine plants or marine plants aquaculture through the Aquaculture Development Area pilot project. The locations where shellfish farming is permitted are those where shellfish harvesting is approved by the Canadian Shellfish Sanitation Program (CSSP). The area of each polygon is provided as a label in hectares (ha).

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20220916-Public Engagement Large Map\CHS_Chart_32-25x46-5_ShellfishMarinePlants.mxd - Date: October 13, 2022

Phone conversation with [redacted]
11:00 to 11:20 am

Spends the summer at [redacted]

Supporters of the industry in SW NS.

Concerned about the Salt Bay farms.

[redacted]

[redacted]

Decrease in value of property.

Oyster farmers are getting choice locations that are also locations for pleasure craft use.

Argyle Aquaculture Development Area (ADA)

Shellfish and Marine Plants

NOVA SCOTIA

Fisheries and Aquaculture

Municipalité d' Argyle Municipality

This map was designed to display the final marine space selection as part of the Argyle ADA Pilot Project, a collaborative effort between the Nova Scotia Department of Fisheries and Aquaculture and the Municipality of the District of Argyle.

N

0 0.5 1 2 3 4 5 6 7 Kilometers

Topographic Layer: 1:10,000 Nova Scotia Topographic Database (NSTDB) - ©NSGC.
Road Layer: 1:10,000 Nova Civic Address File (NSCAF) - ©NSGC.
Place Names: Nova Scotia Geographical Names Database (NSGNDB) - ©NSGC.
Argyle ADA Marine Space: Municipality of the District of Argyle and NS Department of Fisheries and Aquaculture
Nova Scotia Marine Aquaculture Leases: NS Department of Fisheries and Aquaculture
©NSGC: Nova Scotia Geomatics Centre, Amherst, N.S.

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Phone: (902) 648-2311

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20240405-ADA Polygons for Announcement\CHS_Chart_32-25x46-5_FnlAnnouncement.mxd - Date: April 5, 2024

Legend

Aquaculture Marine Areas

- ADA Marine Areas
- Issued Marine Aquaculture Leases

Depth

- < 0 m
- 0 - 2 m
- 2 - 5 m
- 5 - 10 m
- > 10 m

The Argyle Aquaculture Development Area (ADA) was designated on April 15, 2024. The ADA identifies marine locations for shellfish and marine plants aquaculture. Each location is labelled with the ADA site ID, along with the hectares (ha).

Argyle Aquaculture Development Area (ADA)

Shellfish and Marine Plants

NOVA SCOTIA

Fisheries and Aquaculture

Municipalité d'Argyle Municipality

This map was designed to display the final marine space selection as part of the Argyle ADA Pilot Project, a collaborative effort between the Nova Scotia Department of Fisheries and Aquaculture and the Municipality of the District of Argyle.

N

0 0.5 1 2 3 4 5 6 7 Kilometers

Topographic Layer: 1:10,000 Nova Scotia Topographic Database (NSTDB) - *NSGC.
Road Layer: 1:10,000 Nova Civic Address File (NSCAF) - *NSGC.
Place Names: Nova Scotia Geographical Names Database (NSGNDB) - *NSGC.
Argyle ADA Marine Space: Municipality of the District of Argyle and NS Department of Fisheries and Aquaculture
Nova Scotia Marine Aquaculture Leases: NS Department of Fisheries and Aquaculture
Bathymetry: US Geological Survey and MassGIS
*NSGC: *Nova Scotia Geomatics Centre, Amherst, N.S.*

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Civic Address: 5 Rue J.E. Hatfield Crt, Tusket, NS
Phone: (902) 648-2311

Legend

Aquaculture Marine Areas

- ADA Marine Areas
- Issued Marine Aquaculture Leases

Depth

- < 5 m
- 5 - 10 m
- 10 - 15 m
- 15 - 20 m
- 20 - 30 m

The Argyle Aquaculture Development Area (ADA) was designated on April 15, 2024. The ADA identifies marine locations for shellfish and marine plants aquaculture. Each location is labelled with the ADA site ID, along with the hectares (ha).

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20240405-ADA Polygons for Announcement\CHS_Chart_32-25x46-5_ForAnnouncement_GMBathy.mxd - Date: April 5, 2024

Argyle Aquaculture Development Area (ADA)

Shellfish and Marine Plants

NOVA SCOTIA

Fisheries and Aquaculture

Municipalité d' Argyle Municipality

This map was designed to display the final marine space selection as part of the Argyle ADA Pilot Project, a collaborative effort between the Nova Scotia Department of Fisheries and Aquaculture and the Municipality of the District of Argyle.

N

0 0.5 1 2 3 4 5 6 7 Kilometers

Topographic Layer: 1:10,000 Nova Scotia Topographic Database (NSTDB) - *NSGC.
Road Layer: 1:10,000 Nova Civic Address File (NSCAF) - *NSGC.
Place Names: Nova Scotia Geographical Names Database (NSGNDB) - *NSGC.
Argyle ADA Marine Space: Municipality of the District of Argyle and NS Department of Fisheries and Aquaculture
Nova Scotia Marine Aquaculture Leases: NS Department of Fisheries and Aquaculture
Bathymetry: Canadian Hydrographic Service
*NSGC: Nova Scotia Geomatics Centre, Amherst, N.S.

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Civic Address: 5 Rue J.E. Hatfield Crt, Tusket, NS
Phone: (902) 648-2311

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20240405-ADA Polygons for Announcement\CHS_Chart_32-25x46-5_ForAnnouncement_MXD.mxd - Date: April 5, 2024

Legend

Aquaculture Marine Areas

- ADA Marine Areas
- Issued Marine Aquaculture Leases

The Argyle Aquaculture Development Area (ADA) was designated on April 15, 2024. The ADA identifies marine locations for shellfish and marine plants aquaculture. Each location is labelled with the ADA site ID, along with the hectares (ha).

[redacted]

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

June 16

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20220323-Meeting, Matt, Alain, Angelique\CHS_Chart_32-25x46-5.mxd - Date: April 29, 2022

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

Area/Zone	Origin/Origine	Date	Line Spacing / Espacement des lignes
a	CHS/SHC	1964-71	100m
b	CHS/SHC	1960-61	250m
c	BA/AB	1851-53	Track/Trajets *

* Leadline Survey/Levé à la ligne de sonde

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2.2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Higher High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 15 metres.

HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

SOURCES: The hydrographic data are shown in the SOURCE CLASSIFICATION DIAGRAM.

For Symbols and Abbreviations, see *Chart No.1*.

LES PROFONDEURS sont en mètres et sont réduites au zéro des cartes (le marée normale la plus basse), lequel à Wedgeport est de 2,2 mètre au-dessous du niveau moyen de l'eau (NME).

LES ALTITUDES, et les hauteurs libres sont en mètres au-dessus de la pleine mer supérieure, grande marée. Les chiffres soulignés sur les zones asséchantes ou entre parenthèses contre les entités découvrantes sont en mètres au-dessus du zéro des cartes. Les courbes topographiques sont en mètres au-dessus du niveau moyen de la mer. L'équidistance des courbes est de 15 mètres.

SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

SOURCES: Les données hydrographiques sont présentées dans le DIAGRAMME DE CLASSIFICATION DES SOURCES.

Pour les signes conventionnels et les abréviations, consulter *la carte n° 1*.

TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHW/PMS	LLW/BMI	HHW/PMS	LLW/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
Abbotts Harbour	3.9	0.0	3.5	0.5	2.0
Wedgeport	4.3	0.1	3.8	0.6	2.2
Tusket	3.8	0.2	3.3	0.4	1.8
Pinkney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

CABLES

The symbols for submarine and overhead cables do not differentiate between cables conducting electric power, often at high voltages, and other types of utility cables. Mariners are advised to exercise caution when passing under all overhead cables and to avoid anchoring or conducting seabed operations in the vicinity of submarine cables. The clearance of an overhead cable may differ from it's charted value due to changes in atmospheric conditions, water levels and other factors. For additional information, consult *Notice to Mariners No.16* of each year and the appropriate volume of CHS *Sailing Directions*.

CÂBLES

Les signes conventionnels des câbles sous-marins et aériens ne différencient pas les câbles conducteurs d'électricité, souvent à haute tension, des autres câbles de service. Les navigateurs prendront garde en passant sous tous les câbles aériens et éviteront de jeter l'ancre ou d'effectuer des opérations de fond à proximité des câbles sous-marins. La hauteur libre d'un câble aérien peut varier de sa valeur cartographiée à cause des changements dans les conditions atmosphériques, les niveaux d'eau et autres facteurs. Pour plus de renseignements, consulter *l'Avis aux navigateurs n° 16* de chaque année et le volume approprié des *Instructions nautiques* du SHC.

FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year.

F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

Limites des zones de pratiques de tir et d'exercices. Consulter l'*Avis aux navigateurs n° 35* de chaque année.

STAKES NO. 2

The channel between Little Tusket Island and Hells Gate is marked by stakes.

PERCHES n°2

Le chenal entre Little Tusket et Hells Gate est précisé par des pieux.

STAKES

The channel between Wedge Point and the public wharf at Lower Wedgeport is marked by stakes.

PERCHES

Le chenal entre Wedge Point et le quai public à Lower Wedgeport est précisé par des pieux.

F2

F3

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

Adjoining Chart 4243 / Carte adjacente

Adjoining Chart 4242 / Carte adjacente

Adjoining Chart 4210 / Carte adjacente

Cruise the Net/Naviguez dans Internet
www.charts.gc.ca www.cartes.gc.ca

4244

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC / DÉC 29 2003
Corrected to NOTICES TO MARINERS / Corrigé jusqu'à l'AVIS AUX NAVIGATEURS : *2012-11-09*
See *Notices to Mariners* for subsequent corrections / Voir *Avis aux navigateurs* pour les corrections subséquentes

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METRES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	METRES
FEET		6		12		18		24		30		36		42		48		54		60		66		72		78		84		90		96	102	PIEDS
FATHOMS		1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	17	BRASSES

METRIC/MÉTRIQUE

[redacted]

June 17, 2022

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2.2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Higher High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 15 metres.

HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

SOURCES: The hydrographic data are shown in the SOURCE CLASSIFICATION DIAGRAM.

For Symbols and Abbreviations, see *Chart No.1*.

LES PROFONDEURS sont en mètres et sont réduites au zéro des cartes (la marée normale la plus basse), lequel à Wedgeport est de 2.2 mètre au-dessous du niveau moyen de l'eau (NME).

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SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

SOURCES: Les données hydrographiques sont présentées dans le DIAGRAMME DE CLASSIFICATION DES SOURCES.

Pour les signes conventionnels et les abréviations, consulter *la carte n° 1*.

TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

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	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHW/PMS	LLW/BMI	HHW/PMS	LLW/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
Abbotts Harbour	3.9	0.0	3.5	0.5	2.0
Wedgeport	4.3	0.1	3.8	0.6	2.2
Tusket	3.8	0.2	3.3	0.4	1.8
Pinkney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

Area/Zone	Origin/Origine	Date	Line Spacing / Espacement des lignes
a	CHS/SHC	1954–71	100m
b	CHS/SHC	1960–61	250m
c	BA/AB	1851–53	Track/Trajets *

* Leadline Survey/Levé à la ligne de sonde

CABLES

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CÂBLES

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FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year. F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

Limites des zones de pratiques de tir et d'exercices. Consulter *l'Avis aux navigateurs n° 35* de chaque année.

STAKES NO. 2

The channel between Little Tusket Island and Hells Gate is marked by stakes.

PERCHES n°2

Le chenal entre Little Tusket et Hells Gate est précisé par des pieux.

STAKES

The channel between Wedge Point and the public wharf at Lower Wedgeport is marked by stakes.

PERCHES

Le chenal entre Wedge Point et le quai public à Lower Wedgeport est précisé par des pieux.

No Fishing

F3

F2

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

Fish Areas ?

Markings on this map were made during a conversation with Roland & Tyler Murphy on July 17, 2022.

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Nautical Charts Protect Lives, Property and the Marine Environment
Les cartes marines protègent la vie, la propriété et l'environnement marin

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC/DÉC 26 2003
Corrected to NOTICES TO MARINERS / Corrigé jusqu'à l'AVIS AUX NAVIGATEURS : *2012-11-09*
See *Notices to Mariners* for subsequent corrections / Voir *Avis aux navigateurs* pour les corrections subséquentes

METRES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	METRES
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	PIEDS														
FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	BRASSES														

METRIC/MÉTRIQUE

Adjoining Chart / Carte adjacente 4242 (66°) — Adjoining Chart / Carte adjacente 4210 (49°)

Adjoining Chart 4243 / Carte adjacente

4244

4244 — Nova Scotia/Nouvelle-Écosse — Southwest Coast/Côte Sud-Ouest — WEDGEPORT AND VICINITY/ET LES ABORDS

Cruise the Net/Naviguez dans Internet www.charts.gc.ca www.cartes.gc.ca

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20220323-Meeting, Matt, Alain, Angelique\CHS_Chart_32-25x46-5.mxd - Date: April 28, 2022

[redacted]

June 7

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2.2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Higher High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 15 metres.

HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

SOURCES: The hydrographic data are shown in the SOURCE CLASSIFICATION DIAGRAM.

For Symbols and Abbreviations, see *Chart No.1*.

LES PROFONDEURS sont en mètres et sont réduites au zéro des cartes (la marée normale la plus basse), lequel à Wedgeport est de 2.2 mètre au-dessous du niveau moyen de l'eau (NME).

LES ALTITUDES, et les hauteurs libres sont en mètres au-dessus de la pleine mer supérieure, grande marée. Les chiffres soulignés sur les zones asséchantes ou entre parenthèses contre les entités découvrantes sont en mètres au-dessus du zéro des cartes. Les courbes topographiques sont en mètres au-dessus du niveau moyen de la mer. L'équidistance des courbes est de 15 mètres.

SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

SOURCES: Les données hydrographiques sont présentées dans le DIAGRAMME DE CLASSIFICATION DES SOURCES.

Pour les signes conventionnels et les abréviations, consulter *la carte n° 1*.

TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHW/PMS	LLW/BMI	HHW/PMS	LLW/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
Abbotts Harbour	3.9	0.0	3.5	0.5	2.0
Wedgeport	4.3	0.1	3.8	0.6	2.2
Tusket	3.8	0.2	3.3	0.4	1.8
Pinkneys Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

Area/Zone	Origin/Origine	Date	Line Spacing / Espacement des lignes
a	CHS/SHC	1964-71	100m
b	CHS/SHC	1960-61	250m
c	BA/AB	1851-53	Track/Trajets *

* Leadline Survey/Levé à la ligne de sonde

CABLES

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CÂBLES

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FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year.

F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

Limites des zones de pratiques de tir et d'exercises. Consulter l'*Avis aux navigateurs n° 35* de chaque année.

STAKES NO. 2
The channel between Little Tusket Island and Hells Gate is marked by stakes.

PERCHES n°2
Le chenal entre Little Tusket et Hells Gate est précisé par des pieux.

STAKES
The channel between Wedge Point and the public wharf at Lower Wedgeport is marked by stakes.

PERCHES
Le chenal entre Wedge Point et le quai public à Lower Wedgeport est précisé par des pieux.

Tony Dory Shoal

Fished

Adjoining Chart 4243 / Carte adjacente

Adjoining Chart 4242 / Carte adjacente

Adjoining Chart 4210 / Carte adjacente

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC/DÉC 28 2003
Corrected to NOTICES TO MARINERS / Corrigé jusqu'à l'AVIS AUX NAVIGATEURS : *2012-11-09*
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Nautical Charts Protect Lives, Property and the Marine Environment
Les cartes marines protègent la vie, la propriété et l'environnement marin

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[redacted]

June 6, 2022

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY / ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

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HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

SOURCES: The hydrographic data are shown in the SOURCE CLASSIFICATION DIAGRAM.

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SOURCES: Les données hydrographiques sont présentées dans le DIAGRAMME DE CLASSIFICATION DES SOURCES.

Pour les signes conventionnels et les abréviations, consulter *la carte n° 1*.

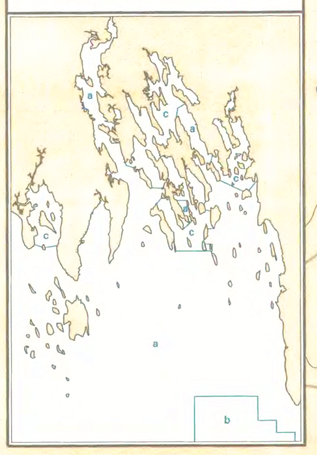
TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHW/PMS	LLW/BMI	HHW/PMS	LLW/BMI	
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Pinkney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

Area/Zone	Origin/Origine	Date	Line Spacing / Espacement des lignes
a	CHS/SHC	1964–71	100m
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* Leadline Survey/Levé à la ligne de sonde



CABLES

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CÂBLES

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FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year. F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

Limites des zones de pratiques de tir et d'exercices. Consulter l'*Avis aux navigateurs n° 35* de chaque année.

STAKES NO. 2

The channel between Little Tusket Island and Hells Gate is marked by stakes.

PERCHES n°2

Le chenal entre Little Tusket et Hells Gate est jalonné par des pieux.

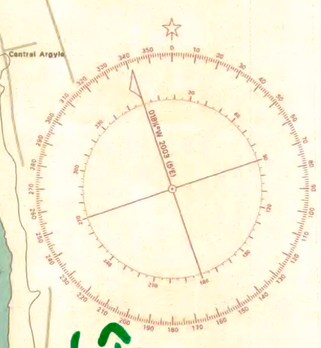
STAKES

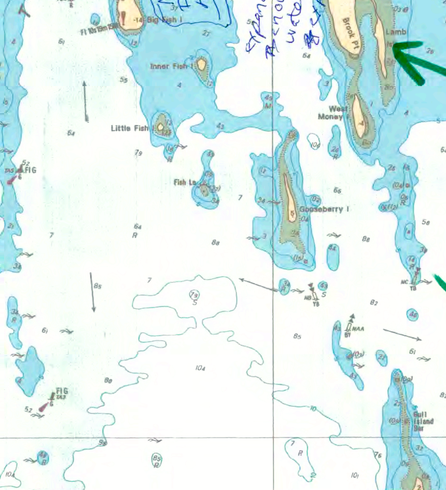
The channel between Wedge Point and the public wharf at Lower Wedgeport is marked by stakes.

PERCHES

Le chenal entre Wedge Point et le quai public à Lower Wedgeport est jalonné par des pieux.







Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

Shallow

Fishes E>

Adjoining Chart / Carte adjacente 4242 — Adjoining Chart / Carte adjacente 4210

Adjoining Chart / Carte adjacente 4243

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC / DÉC 26 2003
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Nautical Charts Protect Lives, Property and the Marine Environment
Les cartes marines protègent la vie, la propriété et l'environnement marin

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[redacted]

Jun 9, 2022

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

4244

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

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HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

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SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

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Pour les signes conventionnels et les abréviations, consulter *la carte n° 1*.

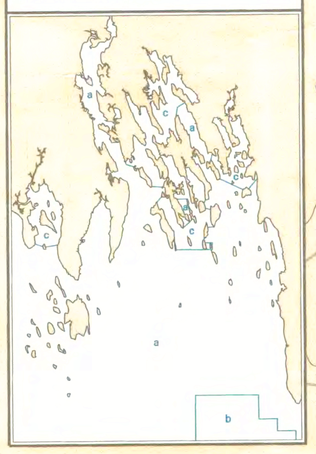
TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level/Niveau moyen de l'eau
	HHW/PMS	LLW/BMI	HHW/PMS	LLW/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
Abbotts Harbour	3.9	0.0	3.5	0.5	2.0
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Pinkney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

SOURCE CLASSIFICATION DIAGRAM
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* Leadline Survey/Levé à la ligne de sonde



CABLES

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FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year. F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

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STAKES NO. 2

The channel between Little Tusket Island and Hells Gate is marked by stakes.

PERCHES n°2

Le chenal entre Little Tusket et Hells Gate est précisé par des pieux.

STAKES

The channel between Wedge Point and the public wharf at Lower Wedgeport is marked by stakes.

PERCHES

Le chenal entre Wedge Point et le quai public à Lower Wedgeport est précisé par des pieux.

Adjoining Chart 4243
Carte adjacente

Adjoining Chart 4242
Carte adjacente

Adjoining Chart 4210
Carte adjacente

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

Fishes here

No

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20220323-Meeting_Matt_Alain_Angelique\CHS_Chart_32-25x46-5.mxd - Date: April 28, 2022

Cruise the Net/Navigvez dans Internet
www.charts.gc.ca www.cartes.gc.ca

4244

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE EDITION DEC / DÉC 28 2003
Corrected to NOTICES TO MARINERS / Corrigé jusqu'à l'AVIS AUX NAVIGATEURS : *2012-11-09*
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Feb 10, 2023

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

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FIRING PRACTICE AND EXERCISE AREAS

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F3

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PERCHES

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ORIENTATION

ORIENTATION

Legend

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- Issued Marine Aquaculture Leases

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- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

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Adjoining Chart / Carte adjacente 4242 (west) 4210 (east)

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

4244

Cruise the Net/Navigquez dans Internet
www.charts.gc.ca www.cartes.gc.ca

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC/DÉC 28 2003
Corrected to NOTICES TO MARINERS / Corrigé jusqu'à l'AVIS AUX NAVIGATEURS : *2012-11-09*
See *Notices to Mariners* for subsequent corrections / Voir *Avis aux navigateurs* pour les corrections subséquentes

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Nautical Charts Protect Lives, Property and the Marine Environment
Les cartes marines protègent la vie, la propriété et l'environnement marin

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METRES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	METRES
FEET		6		12		18		24		30		36		42		48		54		60		66		72		78		84		90		96	102	PIEDS
FATHOMS	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	17	BRASSES

METRIC/MÉTRIQUE

PEI - accessibility can be an issue
Nick & Nikki in Belfast

Duck attack by Eastern

[redacted]

June 20, 2022

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2.2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Higher High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 15 metres.

HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

SOURCES: The hydrographic data are shown in the SOURCE CLASSIFICATION DIAGRAM.

For Symbols and Abbreviations, see *Chart No.1*.

LES PROFONDEURS sont en mètres et sont réduites au zéro des cartes (la marée normale la plus basse), lequel à Wedgeport est de 2,2 mètre au-dessous du niveau moyen de l'eau (NME).

LES ALTITUDES, et les hauteurs libres sont en mètres au-dessus de la pleine mer supérieure, grande marée. Les chiffres soulignés sur les zones asséchantes ou entre parenthèses contre les entités découvrantes sont en mètres au-dessus du zéro des cartes. Les courbes topographiques sont en mètres au-dessus du niveau moyen de la mer. L'équidistance des courbes est de 15 mètres.

SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

SOURCES: Les données hydrographiques sont présentées dans le DIAGRAMME DE CLASSIFICATION DES SOURCES.

Pour les signes conventionnels et les abréviations, consulter *la carte n° 1*.

TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHW/PMS	LLW/BMI	HHW/PMS	LLW/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
Abbotts Harbour	3.9	0.0	3.5	0.5	2.0
Wedgeport	4.3	0.1	3.8	0.6	2.2
Tusket	3.8	0.2	3.3	0.4	1.8
Pinkney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

Area/Zone	Origin/Origine	Date	Line Spacing / Espacement des lignes
a	CHS/SHC	1964–71	100m
b	CHS/SHC	1960–61	250m
c	BA/AB	1851–53	Track/Trajets *

* Leadline Survey/Levé à la ligne de sonde

CABLES

The symbols for submarine and overhead cables do not differentiate between cables conducting electric power, often at high voltages, and other types of utility cables. Mariners are advised to exercise caution when passing under all overhead cables and to avoid anchoring or conducting seabed operations in the vicinity of submarine cables. The clearance of an overhead cable may differ from it's charted value due to changes in atmospheric conditions, water levels and other factors. For additional information, consult *Notice to Mariners No.16* of each year and the appropriate volume of CHS *Sailing Directions*.

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FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year. F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

Limites des zones de pratiques de tir et d'exercices. Consulter *l'Avis aux navigateurs n° 35* de chaque année.

STAKES NO. 2

The channel between Little Tusket Island and Hells Gate is marked by stakes.

PERCHES n°2

Le chenal entre Little Tusket et Hells Gate est précisé par des pieux.

STAKES

The channel between Wedge Point and the public wharf at Lower Wedgeport is marked by stakes.

PERCHES

Le chenal entre Wedge Point et le quai public à Lower Wedgeport est précisé par des pieux.

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

Navigation

Adjoining Chart 4243 / Carte adjacente

Adjoining Chart 4242 / Carte adjacente

Adjoining Chart 4210 / Carte adjacente

Cruise the Net/Naviguez dans Internet
www.charts.gc.ca www.cartes.gc.ca

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20220323-Meeting_Matt, Alain, Angelique\CHS_Chart_32-25x46-5.mxd - Date: April 28, 2022

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC / DÉC 26 2003
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Nautical Charts Protect Lives, Property and the Marine Environment
Les cartes marines protègent la vie, la propriété et l'environnement marin

METRES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	METRES
FEET	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	PIEDS														
FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	BRASSES														

METRIC/MÉTRIQUE

[redacted]

July 15, 2022

Fisheries and Oceans Canada | Pêches et Océans Canada

Canada

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2.2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Higher High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 15 metres.

HORIZONTAL DATUM: North American Datum 1983 (NAD 83), which is equivalent to WGS 84.

SOURCES: The hydrographic data are shown in the SOURCE CLASSIFICATION DIAGRAM.

For Symbols and Abbreviations, see *Chart No.1*.

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SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

SOURCES: Les données hydrographiques sont présentées dans le DIAGRAMME DE CLASSIFICATION DES SOURCES.

Pour les signes conventionnels et les abréviations, consulter *la carte n° 1*.

TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHW/PMS	LLW/BMI	HHW/PMS	LLW/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
Abbotts Harbour	3.9	0.0	3.5	0.5	2.0
Wedgeport	4.3	0.1	3.8	0.6	2.2
Tusket	3.8	0.2	3.3	0.4	1.8
Pinkney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

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a	CHS/SHC	1964-71	100m
b	CHS/SHC	1960-61	250m
c	BA/AB	1851-53	Track/Trajets *

* Leadline Survey/Levé à la ligne de sonde

CABLES

The symbols for submarine and overhead cables do not differentiate between cables conducting electric power, often at high voltages, and other types of utility cables. Mariners are advised to exercise caution when passing under all overhead cables and to avoid anchoring or conducting seabed operations in the vicinity of submarine cables. The clearance of an overhead cable may differ from it's charted value due to changes in atmospheric conditions, water levels and other factors. For additional information, consult *Notice to Mariners No.35* of each year and the appropriate volume of CHS *Sailing Directions*.

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FIRING PRACTICE AND EXERCISE AREAS
Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year.

F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES
Limites des zones de pratiques de tir et d'exercices. Consulter l'*Avis aux navigateurs n° 35* de chaque année.

STAKES NO. 2
The channel between Little Tusket Island and Hells Gate is marked by stakes.

PERCHES n°2
Le chenal entre Little Tusket et Hells Gate est précisé par des pieux.

STAKES
The channel between Wedge Point and the public wharf at Lower Wedgeport is marked by stakes.

PERCHES
Le chenal entre Wedge Point et le quai public à Lower Wedgeport est précisé par des pieux.

Adjoining Chart 4243
Carte adjacente

Adjoining Chart 4242
Carte adjacente

Adjoining Chart 4210
Carte adjacente

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

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F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20220323-Meeting_Matt, Alain, Angelique\CHS_Chart_32-25x46-5.mxd - Date: April 28, 2022

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| | | | |

[redacted]

June 9, 2022

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

SOURCE CLASSIFICATION DIAGRAM
DIAGRAMME DE CLASSIFICATION DES SOURCES

Area/Zone	Origin/Origine	Date	Line Spacing / Espacement des lignes
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b	CHS/SHC	1960-61	250m
c	BA/AB	1851-53	Track/Trajets *

* Leadline Survey/Levé à la ligne de sonde

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2.2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Higher High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 15 metres.

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SYSTÈME GÉODÉSIQUE : Système de référence géodésique de l'Amérique du Nord 1983 (NAD 83), qui correspond au WGS 84.

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TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHW/PMS	LLW/BMI	HHW/PMS	LLW/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
Abbotts Harbour	3.9	0.0	3.5	0.5	2.0
Wedgeport	4.3	0.1	3.8	0.6	2.2
Tusket	3.8	0.2	3.3	0.4	1.8
Pinkney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

CABLES

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FIRING PRACTICE AND EXERCISE AREAS

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F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

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PERCHES

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Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

No Fishing area

X

Adjoining Chart 4243 / Carte adjacente

Adjoining Chart 4242 / Carte adjacente

Adjoining Chart 4210 / Carte adjacente

Cruise the Net/Naviguez dans Internet
www.charts.gc.ca www.cartes.gc.ca

4244

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Nautical Charts Protect Lives, Property and the Marine Environment
Les cartes marines protègent la vie, la propriété et l'environnement marin

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Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

[redacted]

Fisheries and Oceans Canada / Pêches et Océans Canada

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY / ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

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CÂBLES

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FIRING PRACTICE AND EXERCISE AREAS

Limits of Firing Practice and Excercise Areas. See *Notice to Mariners No. 35* of each year. F3

ZONES DE PRATIQUES DE TIR ET D'EXERCICES

Limites des zones de pratiques de tir et d'exercices. Consulter *l'Avis aux navigateurs n° 35* de chaque année.

STAKES NO. 2

The channel between Little Tusket Island and Hells Gate is marked by stakes.

PERCHES n°2

Le chenal entre Little Tusket et Hells Gate est précisé par des pieux.

STAKES

The channel between Wedge Point and the public wharf at Lower Wedgeport is marked by stakes.

PERCHES

Le chenal entre Wedge Point et le quai public à Lower Wedgeport est précisé par des pieux.

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

Adjoining Chart / Carte adjacente 4242 — Adjoining Chart / Carte adjacente 4210

Adjoining Chart 4243

Cruise the Net/Navigatez dans Internet www.charts.gc.ca www.cartes.gc.ca

4244

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC / DÉC 26 2003
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Nautical Charts Protect Lives, Property and the Marine Environment
Les cartes marines protègent la vie, la propriété et l'environnement marin

METRIC/MÉTRIQUE

F:\Map\Argyle\Aquaculture\AquacultureDevelopment Area\20220323-Meeting, Matt, Alain, Angelique\CHS_Chart_32-26x46-5.mxd - Date: April 28, 2022

[redacted]

Jun 27, 2022

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY / ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

Projection : Mercator

DEPTHS are in metres and are reduced to Chart Datum (Lowest Normal Tide), which at Wedgeport is 2.2 metres below Mean Water Level (MWL).

ELEVATIONS, and clearances are in metres above Higher High Water, Large Tide. Underlined figures on drying areas or in brackets against drying features are in metres above Chart Datum. Topographic contours are in metres above Mean Sea Level. The contour interval is 15 metres.

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TIDAL INFORMATION/RENSEIGNEMENTS SUR LES MARÉES

LOCATION / LOCALITÉ	Elevation above Chart Datum/Altitude au-dessus du zéro des cartes				
	Large Tide/Grande marée		Mean Tide/Marée moyenne		Mean Water Level / Niveau moyen de l'eau
	HHW/PMS	LLW/BMI	HHW/PMS	LLW/BMI	
	metres/mètres	metres/mètres	metres/mètres	metres/mètres	metres/mètres
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Wedgeport	4.3	0.1	3.8	0.6	2.2
Tusket	3.8	0.2	3.3	0.4	1.8
Pinkney Point	4.7	0.1	4.1	0.7	2.4
Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

SOURCE CLASSIFICATION DIAGRAM
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* Leadline Survey/Levé à la ligne de sonde

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PERCHES

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Fishing areas ///

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
- Shellfish and Marine Plants
- Shellfish and Marine Plants (within 300 m buffer**)

** The 300 m buffer mentioned in the legend refers to a buffer distance suggested by the Canadian Wildlife Service around islands with breeding colonial birds.

Adjoining Chart / Carte adjacente 4243

Adjoining Chart / Carte adjacente 4242

Adjoining Chart / Carte adjacente 4210

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20220323-Meeting, Matt, Alain, Angélique\CHS_Chart_32-25n46-5.mxd - Date: April 28, 2022

Cruise the NatlNavigez dans Internet
www.charts.gc.ca www.cartes.gc.ca

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Nautical Charts Protect Lives, Property and the Marine Environment
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METRES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		METRES
FEET		6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102															PIEDS
FATHOMS	1		2		3		4		5		6		7		8		9		10		11		12		13		14		15		16	17	BRASSES

METRIC/MÉTRIQUE

[redacted]

Nov. 24, 2022

Aquaculture Development Area (ADA)

Shellfish and Marine Plants
Potential Locations

Municipalité d' Argyle Municipality

This map was created by the Municipality of Argyle for the purposes of seeking feedback from the public on the Aquaculture Development Area (ADA) pilot project and potential marine areas chosen. The ADA project is a collaborative effort by the Nova Scotia Department of Fisheries and Aquaculture and the Municipality of Argyle.

N

0 0.5 1 2 3 4 5 6 7 Kilometers

Topographic Layer: 1:10,000 Nova Scotia Topographic Database (NSTDB) - ©NSGC.
Road Layer: 1:10,000 Nova Civic Address File (NSCAF) - ©NSGC.
Place Names: Nova Scotia Geographical Names Database (NSGNDB) - ©NSGC.
ADA Potential Locations: Municipality of the District of Argyle
Nova Scotia Marine Aquaculture Leases: NS Department of Fisheries and Aquaculture
©NSGC: *Nova Scotia Geomatics Centre, Amherst, N.S.*

This product includes map data derived from the Nova Scotia Topographic Database (NSTDB) and the Nova Scotia Civic Address File (NSCAF) and is Crown © copyright 2022, Province of Nova Scotia.

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This map is intended for reference purposes only.
Errors and omissions may exist.

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Mailing Address: P.O. Box 10, Tusket, NS, B0W 3M0
Civic Address: 5 Rue J.E. Hatfield Crt, Tusket, NS
Phone: (902) 648-2311

Legend

ADA Potential Locations

- Shellfish and Marine Plants
- Marine Plants

Existing Marine Aquaculture Leases

- Issued Marine Aquaculture Leases

Note: The ADA Potential Areas are polygons within the Municipality of Argyle waters that have been identified as potentially being suitable for shellfish and marine plants or marine plants aquaculture through the Aquaculture Development Area pilot project. The locations where shellfish farming is permitted are those where shellfish harvesting is approved by the Canadian Shellfish Sanitation Program (CSSP). The area of each polygon is provided as a label in hectares (ha).

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20220916-Public Engagement Large Map\CHS_Chart_32-25x46-5_SheilfishMarinePlants.mxd - Date: October 13, 2022

Fisheries and Oceans Canada / Pêches et Océans Canada

Canada

Aquaculture Development Area (ADA)

Stakeholder Committee Meeting - April 28, 2022

4244

Nova Scotia/Nouvelle-Écosse
Southwest Coast/Côte Sud-Ouest
WEDGEPORT AND VICINITY/ET LES ABORDS

CANADA

NOVA SCOTIA/NOUVELLE-ÉCOSSE

SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

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Yarmouth (43°50'N,66°07'W)	5.1	0.0	4.3	0.6	2.5

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* Leadline Survey/Levé à la ligne de sonde

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F3

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STAKES

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PERCHES

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Mark Fishes?

5 Knots Current

Current?

Rocks

Lobster gear?

Legend

- Preliminary ADA Sites (prior to analysis)
- Issued Marine Aquaculture Leases

Proposed ADA Polygons

- Marine Plants
- Marine Plants (within 300 m buffer**)
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Adjoining Chart / Carte adjacente 4242 (66° 4' – 1')

Adjoining Chart / Carte adjacente 4210 (49' – 48')

Adjoining Chart / Carte adjacente 4243 (39')

F:\Map\Argyle\Aquaculture\Aquaculture Development Area\20220323-Meeting, Matt, Alain, Angélique\CHS_Chart_32-26x48-5.mxd - Date: April 28, 2022

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4244

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
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[redacted]

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METRIC/MÉTRIQUE

CANADA

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SOUTHWEST COAST/CÔTE SUD-OUEST

WEDGEPORT AND VICINITY/ET LES ABORDS

Scale 1:30 000 (43°43'N) Échelle

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F3

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PERCHES

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TENTATIVE NO FISHING AREAS (MUD FLATS)

FRESH FLEW BUOYS

OLD OYSTER SITES

OLD FARM EQUIP.

SUGAR KELP

WEST JEFFREY WRECK

USED TO BE CABLES HERE

Adjoining Chart 4243 / Carte adjacente

Adjoining Chart 4242 / Carte adjacente

Adjoining Chart 4210 / Carte adjacente

Cruise the Net/Naviguez dans Internet www.charts.gc.ca www.cartes.gc.ca

4244

4244 Nova Scotia/Nouvelle-Écosse Southwest Coast/Côte Sud-Ouest WEDGEPORT AND VICINITY/ET LES ABORDS

PREVIOUS EDITIONS/ÉDITIONS ANTÉRIEURES 1986
NEW EDITION/NOUVELLE ÉDITION DEC/DÉC 26 2003
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Les cartes marines protègent la vie, la propriété et l'environnement marin

METRES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	METRES
FEET			6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	PIEDS													
FATHOMS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	BRASSES														

METRIC/MÉTRIC

Aquaculture Development Area Update

Municipality of the District of Argyle

Created by Alix d'Entremont March 14, 2022

This document briefly summarizes the status of the Aquaculture Development Area (ADA) and the outstanding tasks that must be completed by the Municipality of the District of Argyle (MoDA) for the ADA as of March 14, 2022.

In 2022, the Nova Scotia Department of Fisheries and Aquaculture (NSDFA) has been meeting with provincial and federal regulators. All these regulators have had initial engagements except the provincial departments of Environment and Municipal Affairs and Housing. Follow-up engagements with these regulators will continue in the coming weeks or months. MoDA's main contact for NSDFA is Matthew King (GIS Analyst, matthew.king@novascotia.ca, 1-902-875-6064). Important participants in the science related to the development of the ADA have been staff at the Centre for Marine Applied Research (CMAR). The primary contacts at CMAR are [redacted]) and [redacted]).

The following list contains the tasks that are required to be completed by MoDA.

1. A stakeholder engagement report will be created by Charlene LeBlanc in the next two weeks. I have expressed to her that she can send it to me for review prior to it being finalized.

2. A meeting with the Stakeholder Committee can occur immediately and should cover the status of the ADA and the proposed ADA polygons. This information sharing can be in the form of a single meeting with the entire committee or multiple meetings with smaller sub-groups.

3. Conversations regarding communications with [redacted]), should be undertaken prior to public engagement.

4. Meetings with lobster fishers within the area covered by the ADA polygons should be undertaken. The polygons should be shown to make sure that they agree that we have incorporated their comments in the selection process. This should occur before the public engagement (next item).

5. Public engagement should occur following the NSDFA engagement with First Nations and the next Steering Committee meeting which are both slated to occur in early to mid-April 2022.

6. There is desire to offer locals the opportunity to apply for aquaculture lease sites within the ADA before non-local applicants. We must create a geographical definition of "local" and a policy to identify prospective applicants as being from the defined region. Ideas related to this topic can be forwarded to Matthew King by email and/or presented at the Steering Committee meeting.

7. We have yet to confirm the details of the required monitoring (e.g., water quality, eel grass) for the ADA into the future. This could be the responsibility of the future lease holders and MoDA/NSDFA. Therefore, it is uncertain whether MoDA will have any obligations related to monitoring going forward. An ADA Committee may be created that would be required to meet on a regular basis.

8. There have been conversations with d'Eon Oyster Company regarding adding ADA polygons within Salt Bay for them.

The timeline below was presented to the Steering Committee by Matthew King on Dec 20, 2021. This timeline may be a bit optimistic.



Two long lines per site. 1000’ long separated by 100’. Charlene’s plan.

[redacted] says 4m is what is required. 60-80 m (200’-260’) commercial line length. 3 lines per site.

Where sugar kelp already grows?

Water depth? 5-6 m at low tide minimum.

Light penetration 3-4 m down. Currents not exceed 3 knots.

Sugar Kelp: Rocky bottoms, sheltered areas, doesn’t tolerate strong currents or open exposure, does like brackish waters, doesn’t get exposed at low tide. 26 PSU salinity is ideal. Maximum temperature 18 degrees Celsius.

Sand and gravel substrate better for anchors for farm.

1/month measuring of kelp length. Will need a hauler to lift line later in the season when there is lots of growth. Kelp will be longer at the ends and shorter in the middle.

Alaria might look like Sugar Kelp, but growing conditions are similar.

1. Pubnico Harbour – Check for e-coli! Heavy metals less of a concern.
2. Salt Bay
3. Off Camp Cove Wharf – dd

Phone conversation with [redacted]
11:00 to 11:20 am

Spends the summer at [redacted]

Supporters of the industry in SW NS.

[redacted]

[redacted]

Can see the current farm from his house.

Decrease in value of property.

Oyster farmers are getting choice locations that are also locations for pleasure craft use.

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MoDA Field Work

- MoDA bought an **Aquaread AP-2000** meter in 2017. Charlene is the only staff member that has read the manual and has actually done testing. Did testing from June 2017 to Dec 2019. that can measure:
    - Temperature
    - Barometric Pressure
    - Depth
    - pH
    - ORP (Oxidation Reduction Potential)
    - DO (Dissolved Oxygen)
    - EC (Electrical Conductivity)
    - RES (Resistance)
    - TDS (Total Dissolved Solids)
    - SAL (Salinity)
    - SSG (Seawater Specific Gravity)
    - Chlorophyll*
    - Nitrate*
    - GPS (lat, long, altitude)
- Used the Lab at **Université Sainte-Anne** to test:
    - pH
    - SAL (Salinity)
    - Ammonia
    - Nitrate
    - Nitrite
    - Phosphorus
    - Silicon
    - Phytoplankton
- **16 Sites Sampled from 1 to 13 times depending on site**
    - Argyle River (1 SA)
    - Bar Rock (3 SA, 2 MoDA)
    - Calf Island (3 SA, 2 MoDA)
    - Camp Cove Wharf (2 MoDA)
    - Eel Lake (7 MoDA)
    - Fox Island (2 MoDA)
    - Glenwood Bay (1 SA)
    - Goose Bay (1 SA, 1 MoDA)
    - Indian Bay (3 SA, 3 MoDA)
    - Mikes Island (1 MoDA)
    - Pubnico Harbour (3 MoDA)
    - Salt Bay (2 SA, 11 MoDA)

    - Squires Island (2 SA)
    - The Basin (1 MoDA)
    - Tusket River (4 MoDA)
    - Widgegums (2 SA, 2 MoDA)
- **Primary Productivity:** I have 300' of rope, 3 anchors, 3 buoys.
- **MoDA has a Drone and can get images for eel grass mapping.**

Notes from meeting:
- [redacted] BIO Eel grass lead
-Primary productivity will give us info on carrying capacity.
-Send link to [redacted] about our meeter
-CMAR has deployed 4 sensor strings in Lobster Bay as well as a wind and wave buoy (for provincial wave modelling)
-

October 29 2019

SITE	pH	Salinity	Temp	CPHYLL	DO
Mike's Isl	6.81	23.5	12.0	12.7	109.5
Off surette	7.07	24.33	11.7	20.28	105.8
Indian Bay	7.22	25.88	11.7	14.57	106.4
Salt Bay	7.23	25.77	11.45	13.18	107.1
Widgegums	7.36	26.82	11.90	13.75	106.1
Fox Isl	7.51	27.74	11.90	12.53	108.2
Bar Rock	7.42	27.26	11.80	25.94	107.7
Calf Island	7.55	27.39	11.75	16.62	108.2
The Basin	7.41	27.43	12.10	11.89	107.9
Eel Lake	7.37	21.69	12.00	11.81	109.5

MUNICIPALITY OF ARGYLE

Aquaculture Development Area

PROJECT BACKGROUND



In 2016…



COME ASHORE; DROP YOUR ANCHOR

We have a lot going on above and below the sea



The Municipality of Argyle

D’EONS OYSTER COMPANY



Research and Development





MOU - Memorandum of Understanding between Argyle & Province

FACTORS CONSIDERED FOR SITE SELECTION



NAVIGATION



FISHER PEOPLE AND ROCK WEEDERS



SHELTER



PROXIMITY TO HOMES



PROXIMITY TO WHARVES



INDIGENOUS PEOPLE



RECREATIONAL BOATERS



WATER QUALITY & DATA

STEERING COMMITTEE

Purpose is to manage the ADA planning process.

- Municipality of the District of Argyle
- NSDFA – Nova Scotia Dept of Fisheries and Aquaculture
- CMAR – Centre for Marine Applied Research
- Department of Fisheries and Oceans

STAKEHOLDER COMMITTEE

Purpose is to provide support in the engagement, including First Nations and network partners.

Municipality of the District of Argyle
NSDFA – Nova Scotia Dept of Fisheries and Aquaculture
CMAR – Centre for Marine Applied Research
Industry committee members (Lobster and aquaculture farmers)
Members of the Public

OUR FOCUS FOR SUCCESS AND TRANSPARENCY

- Community awareness and support
- Stakeholder engagements
- Science based decisions

COMMUNITY AWARENESS AND SUPPORT

- Open House to showcase d'Eons Oyster Company solar powered oyster grader
- Launched a Video on aquaculture and the suspended culture system
- www.aquacultureargyle.com
- Newsletter
- Newspaper
- Facebook live re: ADA
- Brochures
- One pager sent out
- One on one with locals
- Participated and promoted the Economic Dev video created for the NSDFA



STAKEHOLDER ENGAGEMENTS

- We complied a stakeholder list of 41 businesses and organizations
- We further divided them into categories to ensure this work is done efficiently and thoroughly.

  - Dialogue
  - Information
  - Communication
  - Consultations (with regulators and First Nations which is led by the NSDFA)

SCIENCE BASED DECISIONS

We have now been collecting data in Lobster Bay and Pubnico Harbour (and Murder island) for over 4 years; measuring temperature, DO, pH, nitrate, nitrite, ammonia, phosphorous, salinity, phytoplankton, silicon and chlorophyll.

We have also been monitoring the area for ice and the Eel Grass.

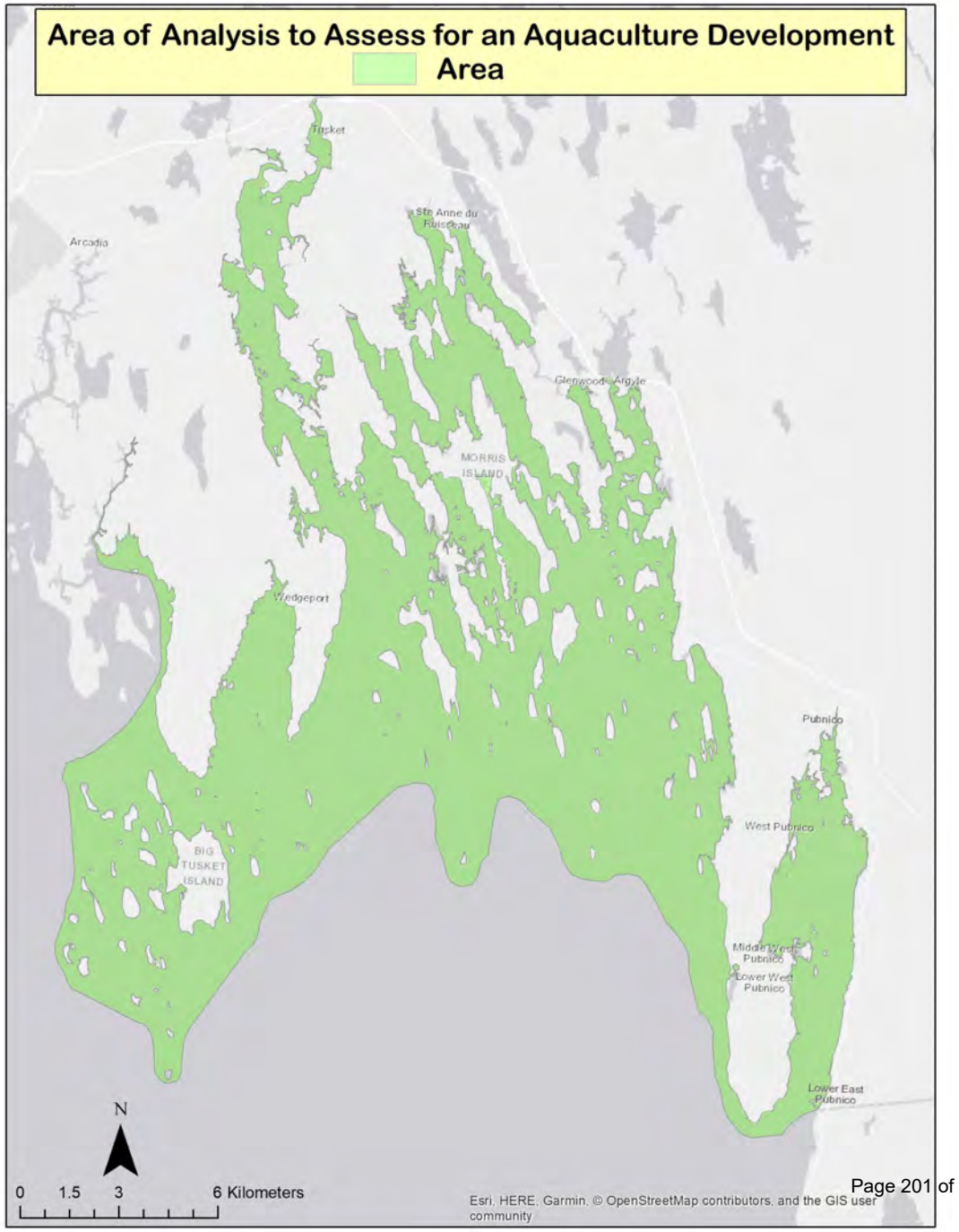




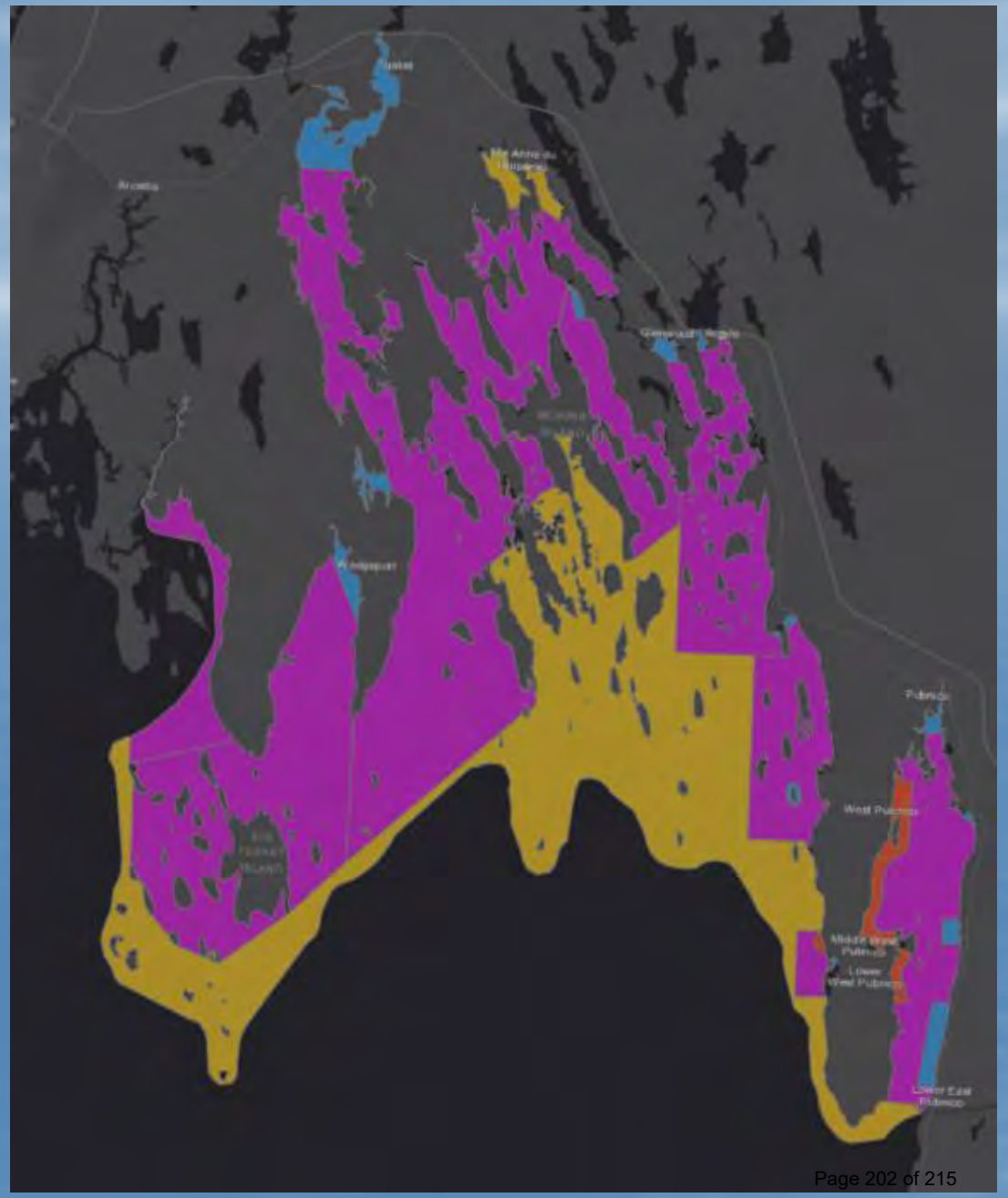
AREA OF ANALYSIS

&

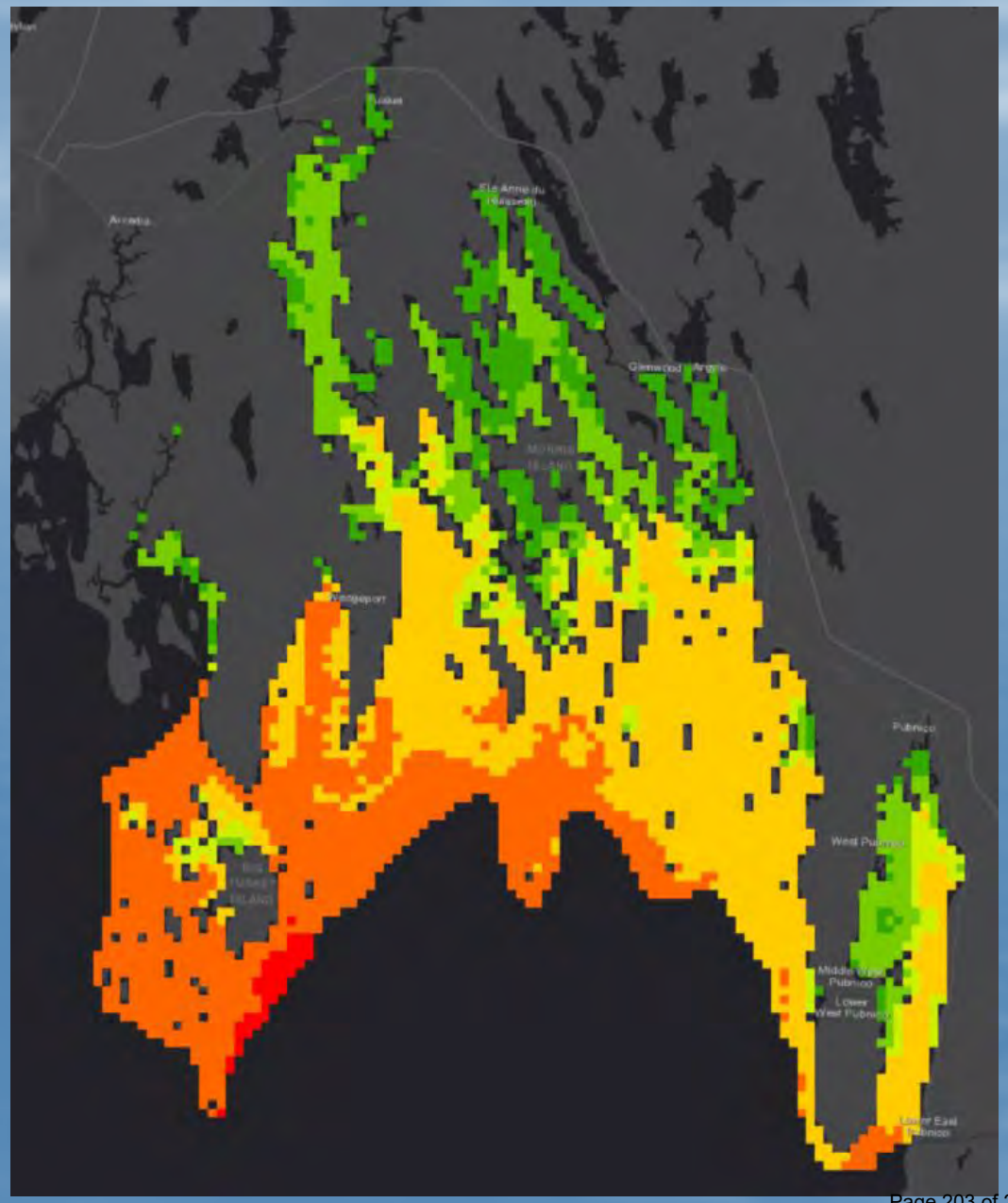
THE DECISION SUPPORT TOOL



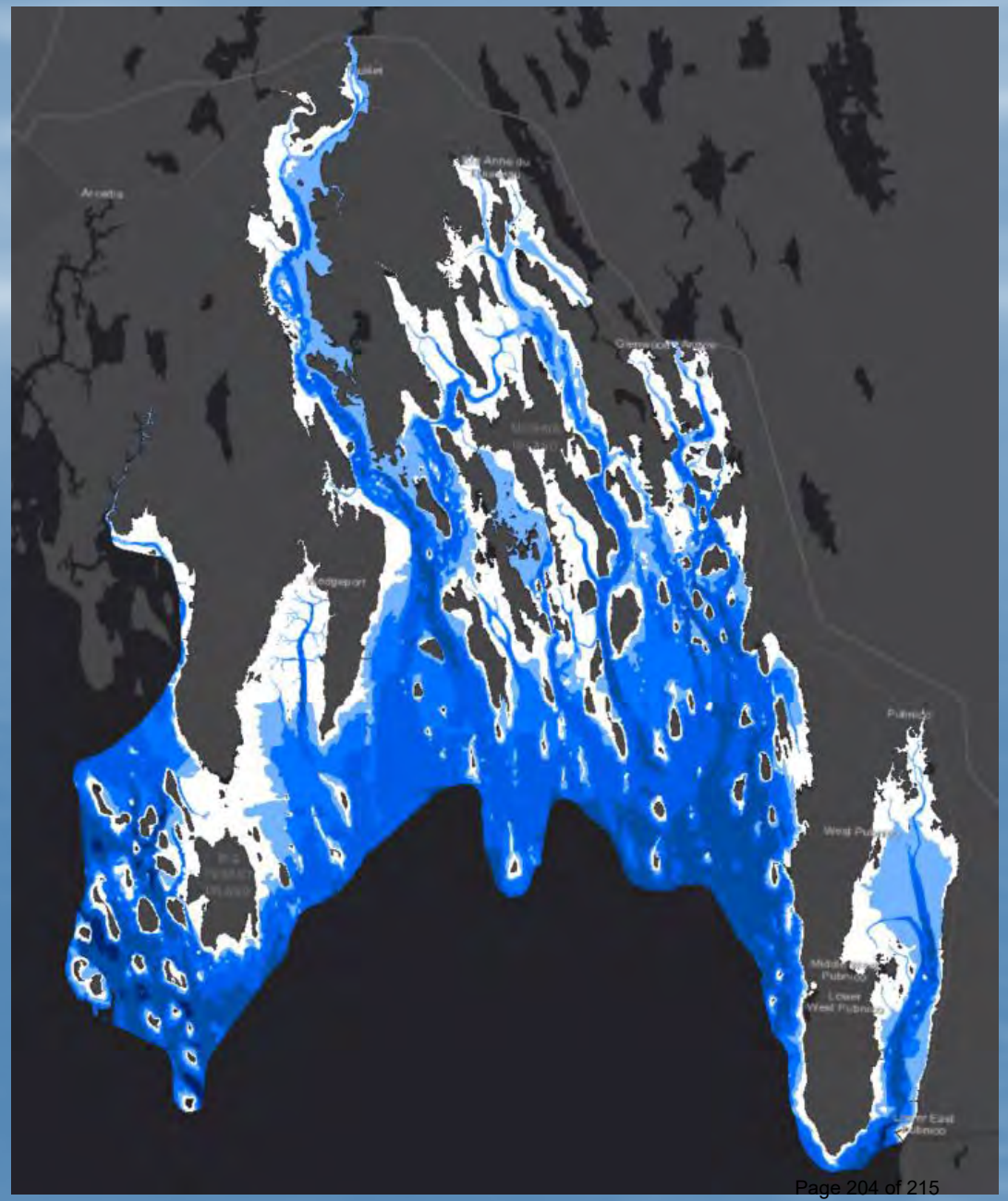
ENVIRONMENTAL CANADA SHELLFISH CLASSIFICATION



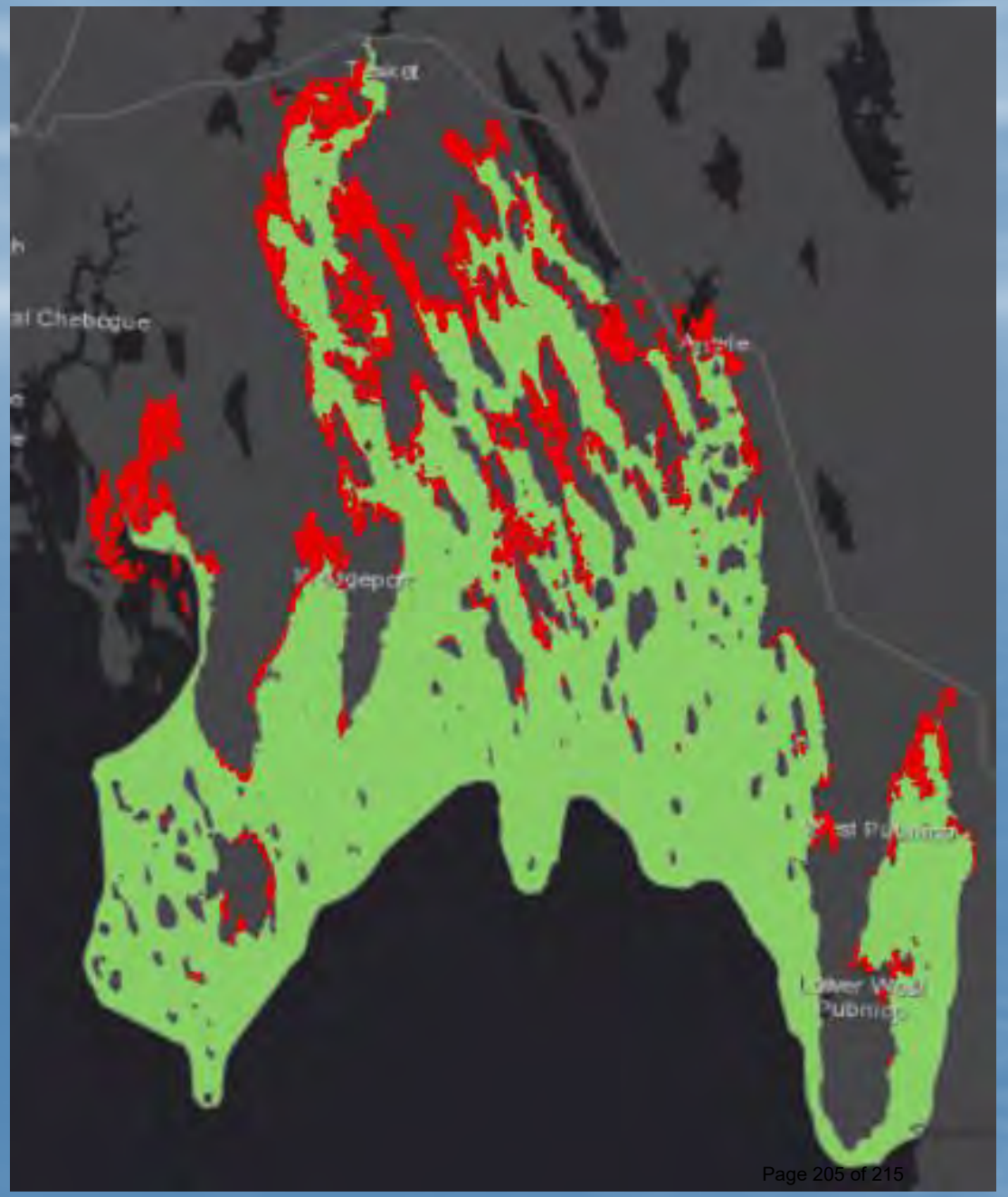
WIND AND WAVE



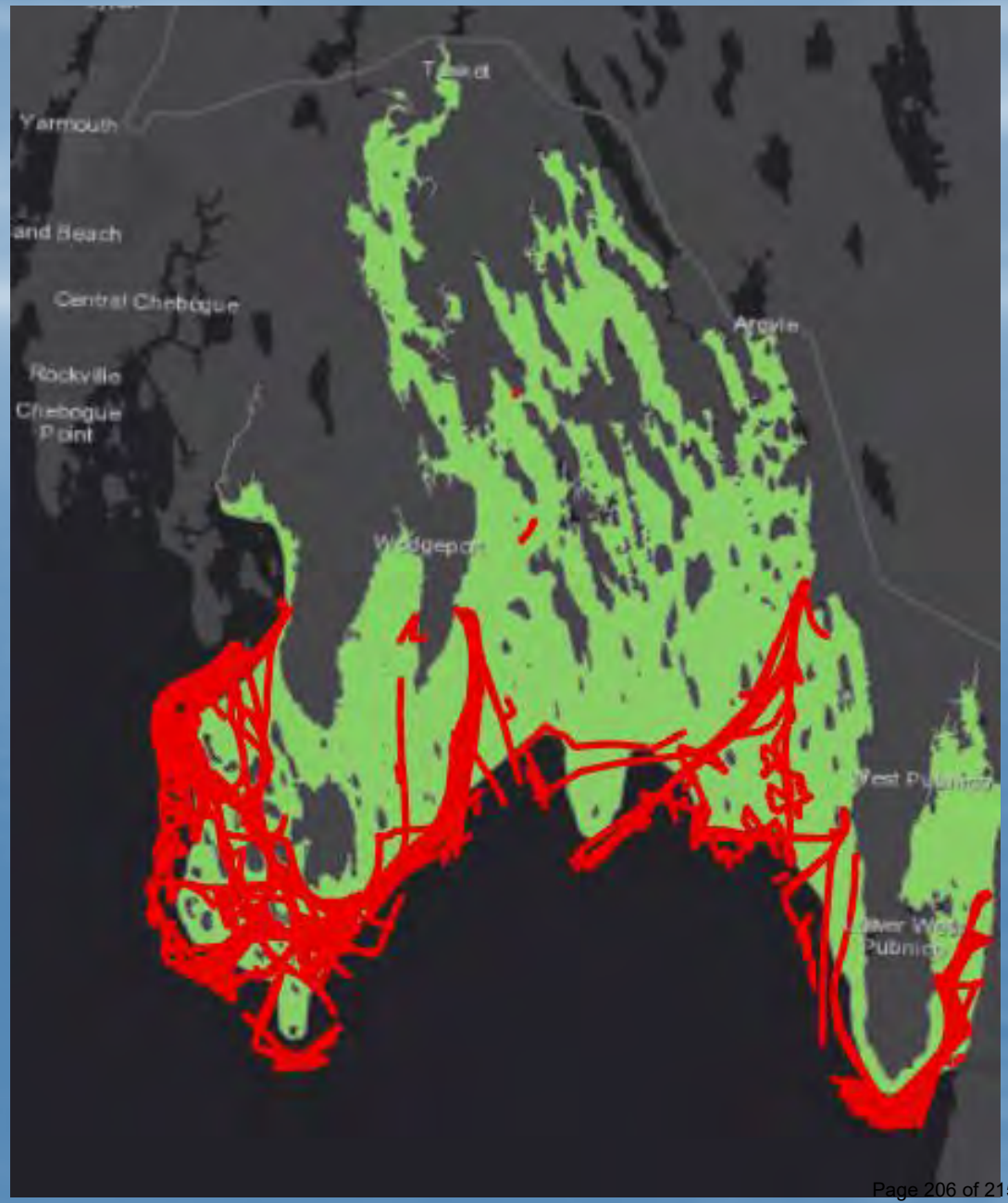
BATHYMETRY



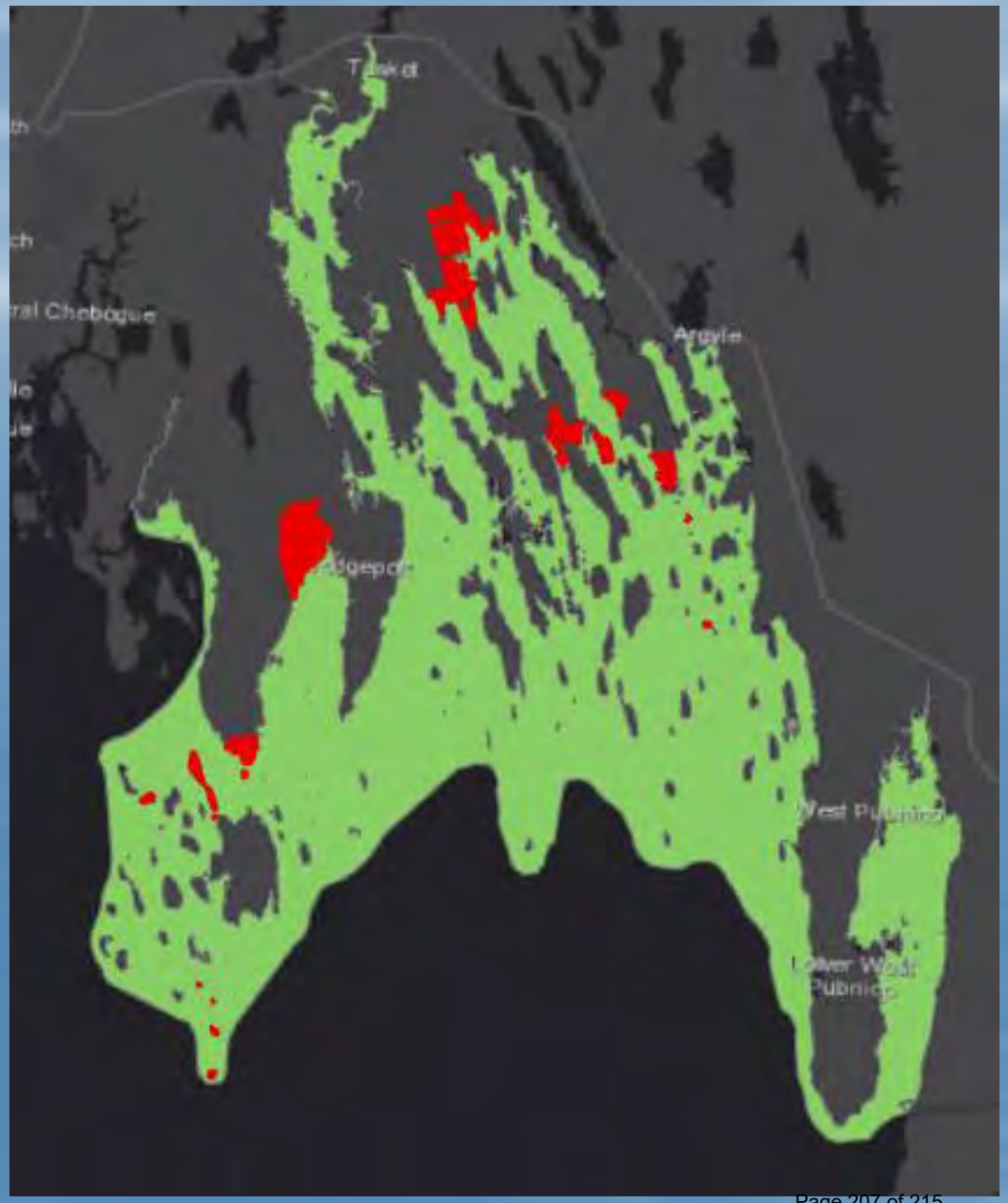
SPECIAL & SIGNIFICANT WETLANDS



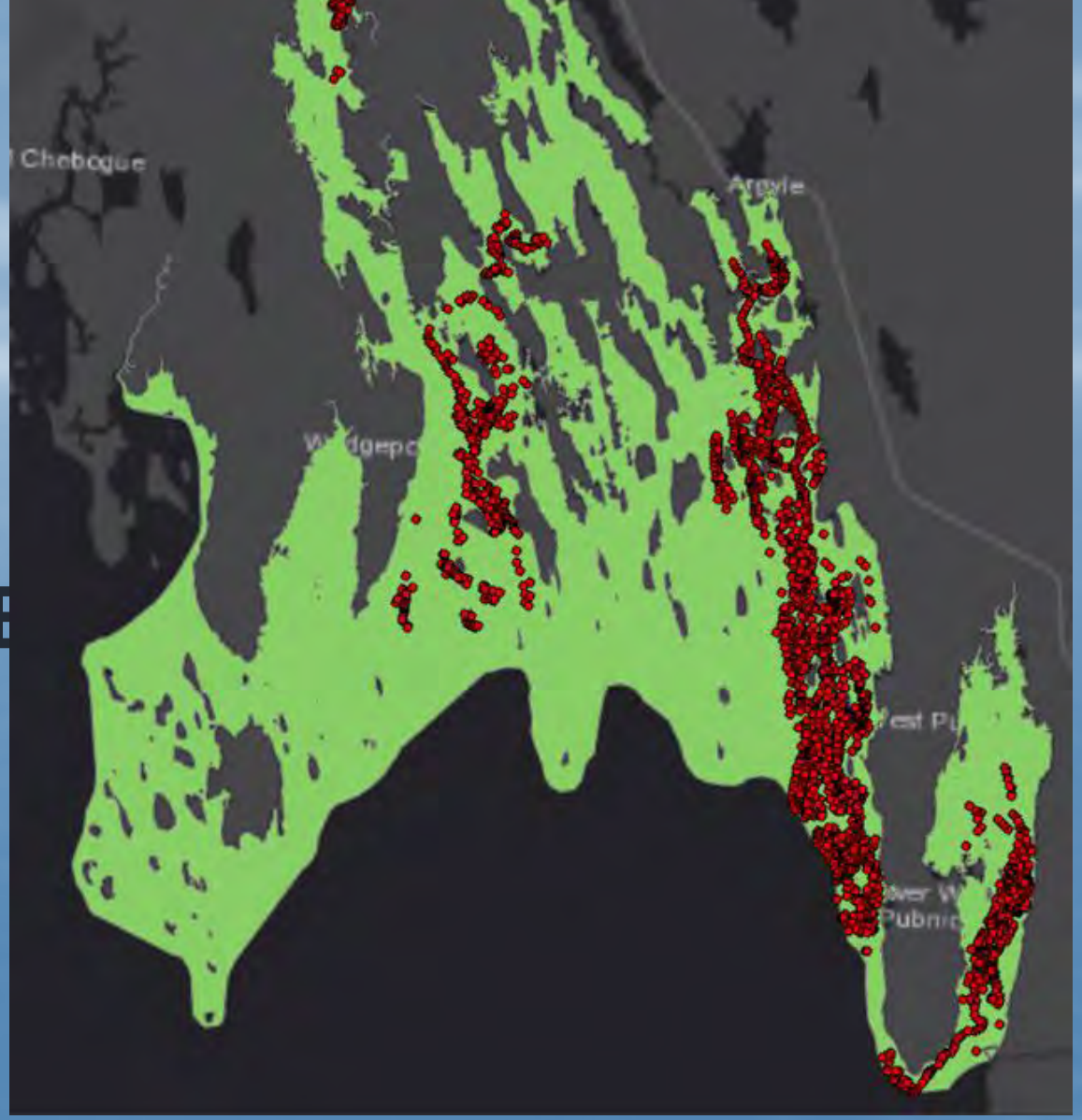
AUTOMATED IDENTIFICATION SYSTEM (AIS) TRACK LINES



NS PROTECTED AREAS



LOBSTER & ALEWIFE FISHING BUOYS



SOUND
ARGYLE
Morton Neck
Frost Island
Peggy I
Ram I
Gooseberry I
Lower Argyle
North Point
Old Pt
Channel
Rankins Island
Globe I
Ryders I
Potato I
Bonds I
Crowell Point
Hog Island
Hog Island Channel
Jones Channel
Laura I
Pumpkin I
Jones I
Muises Head, Island
Muises Hd
Étoile Island
Rum I
The Sugarloaf
Outer Sheep I
The Ridge
THE BASIN
RIVER
LOBSTER
BAY
Kelp
Kelp
Sugar Kelp



TEAMWORK

Individually we are one drop.

Together we are an ocean.

Lab	Location	Date & Time	Temp (C)	Baro (mb)	Depth (m)	pH	pHmV	ORP (REDOX)
MoDA	Salt Bay-Wharf	2017-06-15 12:06	17.3	1007	0.22	7.26	-29.8	33.7
Sainte Anne	Salt Bay	2018-05-09 10:55				7.71		
Sainte Anne	Salt Bay	2018-06-20 8:40				7.95		
MoDA	Salt Bay-Wharf	2018-11-09 11:25	11.2	1029	0.03	7.46	-39.3	123.6
MoDA	Salt Bay-Channel	2018-11-09 13:01	10.7	1028	0	7.59	-46.6	112
MoDA	Salt Bay-Wharf	2018-11-28 13:30	5.8	989	0.12	7.7	-50.5	75.2
MoDA	Salt Bay-Wharf	2018-11-28 13:33	5.6	989	0.05	7.66	-48.3	68
MoDA	Salt Bay-Wharf	2018-12-04 11:54	4.5	1004	0.02	7.12	-26.2	88.7
MoDA	Salt Bay-Wharf	2019-03-25 15:51	6.4	1016	0.09	6.95	-16.3	39.3
MoDA	Salt Bay-Wharf	2019-03-28 14:45	13.3	1032	0.1	8.01	-71	68.5
MoDA	Salt Bay-Wharf	2019-03-28 15:24	12.98	1031	0.03	7.97	-68.9	79.7
MoDA	Salt Bay-Wharf	2019-05-03 11:17	10	1024	0.04	7.65	-50.3	83
MoDA	Salt Bay-Channel	2019-10-30 11:54	11.45	1030	0.13	7.23	-27.9	58.1

DO (% Sat)	DO (mg/L)	EC (uS/cm @25C)	RES (Ohms. cm)	TDS (mg/L)	SAL (ppt)	SSG (st)	Chlorophyll (µg/l, ppb)	Lat (DM)
99	8.47	41428	28	26928	26.52	19.4		N 43°48.9762'
					17.29			
					20.1			
105	10.72	37278	36	24230	23.59	18.1		N 43°48.9759'
107	11.03	37434	36	24332	23.69	18.2		N 43°48.9236'
119.9	13.61	34922	45	22699	21.94	17.1		N 43°48.9749'
116.3	13.22	36802	43	23921	23.26	18.2		N 43°48.9749'
108	12.8	37505	43	24378	23.77	18.6		N 43°48.9724'
114.3	13.05	36600	42	23790	23.14	18.1		N 43°48.9741'
113.9	11.02	38773	33	25202	24.65	18.6		N 43°48.9740'
117.4	11.44	39276	33	25529	25	19		N 43°48.9705'
109.1	11.32	40786	34	26510	26.06	20.1		N 43°48.9732'
107.1	10.79	40072	33	26046	25.57	19.5	13.18	N 43°48.8891'

Long (DM)	Alt (m)	Lat	Long (DD)	Lat, Long (DD)	Ammonia (total, as N, (mg/l)²)	Nitrate (NO3, (mg/l)²)	Nitrite (NO2, (mg/l)²)
W 065°54.7083'	5	43.81627	-65.911805	43.81627, -65.911805			
		43.81568	-65.9136	43.81568, -65.9	0.04	0.47	0.5
		43.815776	-65.914171	43.815776, -65.9	0.06	0.47	0.5
W 065°54.6902'	2	43.816265	-65.91150333	43.816265, -65.9115033333333			
W 065°54.9177'	8	43.81539333	-65.915295	43.8153933333333, -65.915295			
W 065°54.7013'	7	43.81624833	-65.91168833	43.8162483333333, -65.9116883333333			
W 065°54.7015'	7	43.81624833	-65.91169167	43.8162483333333, -65.9116916666667			
W 065°54.6957'	6	43.81620667	-65.911595	43.8162066666667, -65.911595			
W 065°54.6999'	2	43.816235	-65.911665	43.816235, -65.911665			
W 065°54.7146'	0	43.81623333	-65.91191	43.8162333333333, -65.91191			
W 065°54.7073'	3	43.816175	-65.91178833	43.816175, -65.9117883333333			
W 065°54.7050'	2	43.81622	-65.91175	43.81622, -65.91175			
W 065°54.9037'	7	43.81481833	-65.91506167	43.8148183333333, -65.9150616666667			

Phosphorus ((mg/l)³)	Silicon (SiO2, (mg/l)³)	Phytoplankton at 40x (u/ml)	Phytoplankton at 400x (u/ml)
0.04	0.374	1	80
0.022	0.458	2	290