

Dan Webster

From: Dan Webster <dan@baysidemaine.com>
Sent: Monday, September 24, 2018 6:16 PM
Subject: Nordic Aquafarm Facility Information

Sid Block, a former president of the Northport Village Corporation, requested that I distribute the following email thread because he believes it's an issue every Bayside resident should be aware of and concerned about.

From: Martha Block [<mailto:marthamblock@gmail.com>]
Sent: Saturday, September 22, 2018 6:18 PM
To: Dan Webster
Subject: Fwd: [localsmartgrowth] Port Mouton Study "dispersed in deep ocean currents"

Dan, the discharge from the Nordic Aquafarm facility may pose a real risk for Bayside. I suggest you read what I am forwarding and decide what you might want to publish in the POTD or just forward it as it is to the mailing list. Baysiders may or may not want to get involved, but they do need to be aware of the NAF plan and potential impact on the waters off our dock. Thanks for considering all this. Sid Block

Sent from my iPhone

Begin forwarded message:

From: "William Leavenworth" (via localsmartgrowth Mailing List)
Date: September 22, 2018 at 8:28:13 AM EDT
To: Lawrence Reichard
Cc: Wayback Farm, Jim Merkel, "localsmartgrowth@lists.riseup.net" <localsmartgrowth@lists.riseup.net>, Wayne Marshall <planner@cityofbelfast.org>, "sokeeffe@coa.edu" <sokeeffe@coa.edu>, "mayor@cityofbelfast.org" <mayor@cityofbelfast.org>, "Ward2councilor@cityofbelfast.org" <Ward2councilor@cityofbelfast.org>, "Ward1councilor@cityofbelfast.org" <Ward1councilor@cityofbelfast.org>, "Ward3councilor@cityofbelfast.org" <Ward3councilor@cityofbelfast.org>, "Ward5councilor@cityofbelfast.org" <Ward5councilor@cityofbelfast.org>, Mike Hurley
Subject: Re: [localsmartgrowth] Port Mouton Study "dispersed in deep ocean currents"
Reply-To: ---

If these folks at NAF were on the up and up, they'd be putting their farm in Rockland, where there is real seawater circulation, a railhead for importing feed and exporting product to distant cities and fish poop to inland farms, and an airport large enough to handle small cargo planes. This smells increasingly like a scam perpetrated on naive bureaucrats, not one of whom has a degree in fisheries science or marine ecology.

That's my sentiments, speaking as one who has sailed on the Bay since 1966--commercially from 1976 through 1990, as deckhand, mate and relief skipper on schooners, and as owner-operator of a day-charter Friendship sloop from 1981 through 1987.

Bill Leavenworth,
Ph.D., Marine Environmental History.

On Sat, Sep 22, 2018 at 7:59 AM, Lawrence Reichard <localsmartgrowth@lists.riseup.net> wrote:

Seriously, we need to start calling this "The Incredible Shrinking Pipe." First 1.5 miles, then one mile, the one kilometer (.62 miles). At this rate, by the time it's built it'll be shorter than Heim's car.

On Sat, Sep 22, 2018 at 1:39 PM, Wayback Farm wrote:

Hi every one !

"the pipes will be one and a half miles and disperse the effluent into deep ocean currents " was the statement of Mr Heim back last feb Info meeting . On film ... This water was approximately 55 feet in depth , Deep ocean currents is a term of art and refers to currents off the edge of the gulf of maine .(UMaine }

Next in mid summer the pipes had retreated to one mile and "ocean currents " this water is 45 feet deep and these currents and flows are more local and recirculating than even the one and a half mile area of pen Bay

now {as confirmed thursday last by Carter Cyr } and stated by Mr Heim , we are at one kilometer into 35 feet of water barely clear of the belfast and bayside headlands of the Little River embayment shallows . so much for deep ocean currents .. currently NOAA and UMaine personal are consulting with Local smart growth about various obvious issues of thermoclines , reconcentration of effluent plume, flow of currents and eddies effecting the beach front homes of Bayside and Belfast and the public swimming areas of these two summer resort areas . . and the ever warming waters of gulf of maine and Penobscot Bay .

This is a simple equation ... cost of pipes per foot to buy and install /years of payback vs ability to pass DEP muster / environmental effect on current users . Its apparent that our end of the equation is being reduced to a pittance of margin of error . and Mr Heim and friends cost / ability to finance is shrinking . But the bay is fine !!! 12 square miles closed to lobstering because of Mercury and dozens of square miles closed to shellfish because of effluent from us who live and work here . Please see the latest on HAB causes and potential devastating effects . see ya all at the reg circus !!!!!!! Paul . PS "bring lawyers, xxxx and money and get us out of this mess ! " Warren Zebon

On Fri, 9/21/18, Lawrence Reichard <localsmartgrowth@lists.riseup.net> wrote:

Subject: Re: [localsmartgrowth] Port Mouton Study

To: "Jim Merkel"

Cc: "localsmartgrowth@lists.riseup.net" <localsmartgrowth@lists.riseup.net>, "Wayne Marshall" <planner@cityofbelfast.org>, "sokeeffe@coa.edu" <sokeeffe@coa.edu>, "mayor@cityofbelfast.org" <mayor@cityofbelfast.org>, "Ward2councilor@cityofbelfast.org" <Ward2councilor@cityofbelfast.org>, "Ward1councilor@cityofbelfast.org" <Ward1councilor@cityofbelfast.org>, "Ward3councilor@cityofbelfast.org" <Ward3councilor@cityofbelfast.org>, "Ward5councilor@cityofbelfast.org" <Ward5councilor@cityofbelfast.org>, "Mike Hurley"

Date: Friday, September 21, 2018, 4:05 AM

Greetings all. Two things in regard to this:

1. Paul

Bernacki has been in touch With a UMO prof who, I believe, has told Paul that most of the water (85 percent?) in the

area where Nordic plans to discharge recirculates back into Penobscot Bay.

2. I

have called around, and by what I have found, there is no official definition of open or deep water; but by reckoning, looking at nautical Charts, the first open water is on the far side of Owl's Head, which is Beyond Rockland, and I think that's a good 20 miles, but I may be wrong on that - I am no expert.

3.

I may be wrong on this too, but it seems to me that initially Heim talked about 1.5 miles offshore - maybe in the February Public information Meeting. If someone has the time to check that, that would be great - and please let me know. In any event, if he did start at 1.5 miles and then migrated to 1 mile and now has migrated further - or actually less far - to 1 km, then I would definitely start to Call this Nordic's Ever-shrinking Effluent

Pipe.

I hope all of

you are well. Lawrence Reichard

On Thu, Sep 20, 2018 at

9:48 PM, Jim Merkel <localsmartgrowth@lists.riseup.net>

wrote:

Hello all,

There aren't any comparable studies for RAS, as no RAS facilities have been built on a similar scale. So it is an experiment. However, fish smell is fish smell. The Port Mouton study should help us ask better questions and know what impacts are possible, and how our employed working waterfront might be impacted. I'm sure potential impact on smaller businesses is of concern to all.

The point is, pen

aquaculture promised no impact, yet delivered a massive impact and dozens of unforeseen problems around the world.

What were they not paying attention to? Let's not repeat the same mistakes on another promised untested technology.

The odor

plumes will be different of course, more concentrated for RAS (with filtering of solids) and dispersed for pens, but share similar in characteristics. Water recycled one time through the RAS system, with filtering will not remove kairomones, pheromones, salmon odor, dissolved nitrogen or dissolved phosphorus. However, the key is, the odor plume will be extensive and similar. Salmon odor is the same.

And how that plume will run along Bayside with an outgoing tide, and then back past the Belfast Park and into the

Belfast Bay on an incoming tide, has to be explored. As the pipes distance is now planned at just 1 KM or .62 miles off shore, deep ocean dispersal is not possible — this is really much further out.

We are getting equipment to study currents and will learn more soon. If you find any study on the plume from the small RAS systems, please send it along!

Thanks,
Jim Merkel

Jim Merkel
97 Patterson Hill Rd
Belfast, Maine, 04915
(207)323-1474

On Sep
20, 2018, at 12:15 PM, Mike Hurley
wrote:

Hello all... are there studies that are applicable to RAS as opposed to this study? This one was done on a sea cage or pen farm with hundreds of thousands of salmon and all their food and wastes and whatever treatments they might receive in the open ocean and going directly into the sea they were immersed in. This study by Port Arthur is at best anecdotal as an RAS system is a completely different system which has an extensive sewage treatment and “recirculating” is the key word. I will bet there are many studies that have looked at RAS and their impacts. They’d be most helpful if you find any of them. Thanks/ Mike Hurley Michael D.

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city
web site<http://belfastmike.wordpress.com/personalblog>
From: Jim
Merkel [mailto:---]
Sent: Thursday,
September 20, 2018 11:46 AM
To: Wayne
Marshall
Cc: sokeeffe@coa.edu; mayor@cityofbelfast.org; Ward2council@cityofbelfast.org

lor@cityofbelfast.org; Mike Hurley; Ward1councilor@
cityofbelfast.org; Ward3councilor@
lor@cityofbelfast.org; Wayne Marshall; Ward5councilor@
cityofbelfast.org; localsmartg
rowth@lists.riseup.net

Subject: Port

Mouton Study Dear

Wayne, Can you

enter these two documents into the public record? Can you
print them from the links? I think they will help us
understand potential unintended

consequences. Summary: 11

year study of 30 lobster fishers finds 42% declines in catch
near fish pens attributed to odor plumes that permeate the
water so a lobster with sense antennas cannot find food.

Same issue with RAS as the pipe will emit an odor plume
along with kairomones, pheromones and high nitrogen levels.

Here is

information about the study: [http://www.](http://www.friendsofportmoutonbay.ca/docs/sea-cage-aquaculture-impacts-market-and-berried-lobster.pdf)

[friendsofportmoutonbay.ca/ docs/sea-cage-aquaculture-](http://www.friendsofportmoutonbay.ca/docs/sea-cage-aquaculture-impacts-market-and-berried-lobster.pdf)
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[friendsofportmoutonbay.ca/](http://www.friendsofportmoutonbay.ca/docs/sea-cage-aquaculture-impacts-market-and-berried-lobster.pdf)

news.html Thanks, Jim

Merkel Sent from

jim merkel's iPhone

Local Citizens for SMART Growth: Salmon Farm

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net

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-----Inline Attachment Follows-----

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