

Scott, Melissa AGRI:EX

From: Minister, AGRI AGRI:EX
Sent: Wednesday, August 30, 2017 11:57 AM
To: Johnson, Lisa E AGRI:EX
Cc: Wendland, Justine AGRI:EX
Subject: FW: MEETING REQUEST: Meeting with Fin Donnelly

From: Fin.Donnelly.C1C@parl.gc.ca [<mailto:Fin.Donnelly.C1C@parl.gc.ca>]
Sent: Thursday, August 24, 2017 4:13 PM
To: Minister, AGRI AGRI:EX
Subject: MEETING REQUEST: Meeting with Fin Donnelly

Hi Ken,

I hope you are well.

MP Fin Donnelly would like to set up a call or meeting with Minister Popham to discuss open net salmon farming in BC waters and the future of closed containment salmon aquaculture.

Please let me know what times would work best. Some good times for Fin would be Tuesday August 29th before 3PM or Wednesday August 30th after 2PM.

Thanks and all the best,

Mark

~~Mark Hosak~~

Parliamentary Assistant

Fin Donnelly, MP – Port Moody-Coquitlam

NDP Critic for Fisheries, Oceans and Canadian Coast Guard

(TEL) 604-664-9229 | (FAX) 604-664-9231

fin.donnelly.ndp.ca | ndp.ca | ndp.ca

UFCW Local 232

Scott, Melissa AGRI:EX

From: Correspondence Serv. Sectn, FLNR:EX
Sent: Monday, October 16, 2017 4:29 PM
To: Minister, AGRI AGRI:EX; Correspondence Serv. Sectn, FLNR:EX
Subject: RE: 231691 FW: Revised Letter to Min G Heyman, Min D Donaldson, Min D Leblanc, Min C McKenna from BC Wildlife Federation

Hi Justine,

I've confirmed that this is FLNRO's issue and we are drafting a response (CLIFF log #231691). You're welcome to provide input if there is anything important from the AGRI side of things.

Thanks,

Eléni Gibson

A/ Correspondence Coordinator, Correspondence Services Section
Ministry of Forests, Lands, Natural Resource Operations and Rural Development
E: FLNR.Correspondence@gov.bc.ca | Eleni.Gibson@gov.bc.ca
T: 250-387-1850

From: Minister, AGRI AGRI:EX
Sent: Monday, October 16, 2017 2:27 PM
To: Correspondence Serv. Sectn, FLNR:EX
Subject: 231691 FW: Revised Letter to Min G Heyman, Min D Donaldson, Min D Leblanc, Min C McKenna from BC Wildlife Federation

Hello,

Is FLNRO planning on responding? Otherwise AGRI can take this. ☺

Cheers,

Justine

Justine Wendland, Administrative Assistant
Office of the Honourable Lana Popham
Minister of Agriculture
250-387-1023 | Justine.Wendland@gov.bc.ca

From: Michelle Galang [<mailto:michelle.galang@bcwf.bc.ca>]
Sent: Wednesday, October 4, 2017 11:31 AM
To: Minister, ENV ENV:EX; Minister, FLNR FLNR:EX; Hon. Dominic LeBlanc (Min@dfo-mpo.gc.ca); Honourable Catherine McKenna (ec.ministre-minister.ec@canada.ca)
Cc: Terry Beech; fin.donnelly@parl.gc.ca; Minister, AGRI AGRI:EX; Jim Hudson **s.22** Brian Riddell (briddell@psf.ca); info@rickhansen.com; Karl English (kenglish@lgl.com); sarah@frasersturgeon.com; Murray Ned (Murray.ned@stolotribalcouncil.ca); info@fraserbasin.bc.ca; info@naturetrust.bc.ca; info@stolotribalcouncil.ca; **s.22** Larry Pynn (lpynn@postmedia.com); info@stolonation.bc.ca; Michelle Galang; Al Martin **s.22** Bill Bosch - PP 12-14; Brenton Froehlich - Vice President / Reg. 8 President; George Wilson; Harvey Andrusak; Jesse Zeman - Resident Priority Program Manager; Les Husband - PP 98-00; Treasurer - Victor

Skaarup

Subject: RE: Revised Letter to Min G Heyman, Min D Donaldson, Min D LeBlanc, Min C McKenna from BC Wildlife Federation

Dear Ministers,

Yesterday, we sent a letter regarding the pending authorization of two bridge crossings at Minto and Herrling Island. Please disregard the previous letter as the Minto Island referenced was incorrect. Attached is the revised letter.

We apologize for this inconvenience.

Yours in conservation,

Michelle Galang
Special Projects Coordinator
BC Wildlife Federation
T 604-882-9988 ext. 224 | E michelle.galang@bcwf.bc.ca
F 604-882-9933

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From: Michelle Galang

Sent: October-03-17 4:49 PM

To: Honourable George Heyman (ENV.Minister@gov.bc.ca) <ENV.Minister@gov.bc.ca>; Honourable Doug Donaldson (FLNR.Minister@gov.bc.ca) <FLNR.Minister@gov.bc.ca>; Hon. Dominic LeBlanc (Min@dfo-mpo.gc.ca) <Min@dfo-mpo.gc.ca>; Honourable Catherine McKenna (ec.ministre-minister.ec@canada.ca) <ec.ministre-minister.ec@canada.ca>

Cc: Terry Beech <Terry.Beech@parl.gc.ca>; 'fin.donnelly@parl.gc.ca' <fin.donnelly@parl.gc.ca>; Honourable Lana Popham (AGR.Minister@gov.bc.ca) <AGR.Minister@gov.bc.ca>; Jim Hudson s.22

s.22 Brian Riddell (briddell@psf.ca) <briddell@psf.ca>; 'info@rickhansen.com' <info@rickhansen.com>; Karl English (kenglish@lgl.com) <kenglish@lgl.com>; 'sarah@frasersturgeon.com' <sarah@frasersturgeon.com>; Murray Ned (Murray.ned@stolotribalcouncil.ca) <Murray.ned@stolotribalcouncil.ca>; 'info@fraserbasin.bc.ca' <info@fraserbasin.bc.ca>; 'info@naturetrust.bc.ca' <info@naturetrust.bc.ca>; 'info@stolotribalcouncil.ca' <info@stolotribalcouncil.ca>; s.22 's.22 Larry Pynn (lpynn@postmedia.com) <lpynn@postmedia.com>; 'info@stolonation.bc.ca' <info@stolonation.bc.ca>; 'projects@bcwf.bc.ca' <projects@bcwf.bc.ca>; 'Al Martin s.22

s.22 'Bill Bosch - PP 12-14' s.22 'Brenton Froehlich - Vice President / Reg. 8 President' s.22 'George Wilson' s.22 'Harvey Andrusak' s.22 'Jesse Zeman - Resident Priority Program Manager' s.22 'Les Husband -

Subject: Letter to Min G Heyman, Min D Donaldson, Min D Leblanc, Min C McKenna from BC Wildlife Federation

Dear Ministers,

Please see attached letter from BC Wildlife Federation president, Harvey Andrusak regarding the Two Bridge Crossings at Minto and Herrling Island.

Yours in conservation,

Michelle Galang
Special Projects Coordinator
BC Wildlife Federation
T 604-882-9988 ext. 224 | E michelle.galang@bcwf.bc.ca
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Ministry of Agriculture
BRIEFING NOTE FOR MINISTER FOR INFORMATION FOR MEETING
with MP Fin Donnelly <<Date>>

Ref: 186705

Date: September 5, 2017

Issue: Meeting with MP Fin Donnelly for a joint briefing on Closed Containment Aquaculture.

Background: Since May 2010, MP Fin Donnelly (NDP critic for Fisheries and Oceans) has proposed amending the federal *Fisheries Act* to transition finfish farming in BC to closed containment systems.

The private member Bill C-228 was introduced in February 2016, and called for the federal Minister of Fisheries and Oceans to prepare and implement a plan to support the transition to the use of closed containment facilities. Bill C-228 called on the federal government to provide support measures for affected corporations and protect the jobs and financial security of workers in that sector within eighteen months if this new Act received royal assent. The Bill was defeated after second reading in the House on December 6, 2016.

Industry Statistics:

The B.C. salmon farming sector has been operating for more than three decades. Farm-raised salmon is B.C.'s highest valued seafood product (93,000 metric tonnes (MT) worth \$797 million in 2016) and the number one agricultural export. About seventy per cent of the harvest is exported, primarily to the U.S., followed by Japan, China and Hong Kong. Salmon aquaculture is a major employer in rural and remote coastal and First Nations communities. The industry has identified that 5,000 jobs, paying roughly 30 per cent more than the provincial median have been generated. Between 20 and 30 per cent of salmon farm workers in B.C. are First Nations. As of July 2017, there were 126 existing salmon farm tenures and of these 65 were operating with salmon on site.

Closed Containment Aquaculture:

"Closed-containment" is a term used to describe a range of technology that aims to minimize interaction between aquaculture operations and the environment. The dominant technology being developed by industry is land-based recirculating aquaculture systems (RAS). Land-based aquaculture is an alternative that has been under development in BC for many years. There are currently no water-based closed containment systems that are feasible for use in the ocean (there are some used in lakes including for steelhead in Lois Lake in B.C.).

There is only one salmon commercial scale facility, Kuterra, operated by the 'Namgis First Nation, is located near Port McNeil (which initiated operations in 2013). The primary objective of the Kuterra project is to demonstrate economic viability for growing market size Atlantic salmon in a closed system on land. Information reported out from the Kuterra project indicates that several technical challenges remain to be resolved, these include; small size of fish, high maturation rates, off-flavours and cataracts. Kuterra has a production capacity of 300 MT as compared to open-net farming that has a production capacity of around 3000 MT. Kuterra has yet to demonstrate financial profitability. The company, including all assets, intellectual property and brand is currently for sale. s.21

s.21

The Province provided a small amount of startup funding (\$157,615) and in-kind staff support at the conception stage of the project before it became Kuterra, which was critical in catalyzing further investment. Most of the funding for Kuterra came from federal (42%), charitable (24%), aboriginal community (0.4%) grants in addition to equity and financing instruments from the 'Namgis First Nation (26%).

Outside of B.C. there is one other closed containment project in Nova Scotia, several projects in Europe and Asia, and interest in developing additional projects in South Africa and the US. All of the projects have

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required very significant investment capital with little publically available information on economic viability. For the most part, profitability remains unproven and a key constraint.

Key approaches used to address profitability include locating farms as close as possible to key markets to reduce transport costs and through economies of scale. The most notable project to attempt this is the Atlantic Sapphire project in Florida which is projected to cost \$817M over the next nine years to build the system with a production capacity of 90,000 MT once fully operational.

s.13

Currently there are several land-based closed containment farms using RAS technology to grow market size fish including steelhead trout, sturgeon, tilapia as well as several salmon hatcheries that supply young salmon (smolts) for growing out in net pens. These sites are very small (50-150 tonnes) catering to niche, high value markets and because of this, are economically viable.

Discussion: Currently, there are no funds/funding programs available for transitioning industry to closed-containment aquaculture. s.13

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with MP Fin Donnelly <<Date>>**

s.13

Suggested Response:

- The Province's commitments relate to marine based aquaculture are as follows:
 - 1) Ensure that the salmon farming industry does not endanger wild salmon by:
 - a. implementing the recommendations of the Cohen Commission;
 - b. keeping farm sites out of important salmon migration routes; and,
 - c. supporting research and transparent monitoring to minimize the risk of disease transfer from captive to wild fish.
 - 2) Provide incentives to help the aquaculture industry transition to closed containment where possible.
- The Ministry continues to support the development of closed-containment technology by providing technical advice and extension services on a number of pilot projects currently in B.C., as well as encouraging new projects.
- Transitioning the industry to closed containment aquaculture will take significant new financial investment and time. Industry may not be receptive to move to closed containment operations where financial viability is still unproven.
- Government will need to strategically focus investments and provide the best possible chance of developing a viable and sustainable aquaculture industry as well as ensuring economic development opportunities and jobs in rural coastal communities.
 - There may be a longer term vision of moving the entire industry to land-based aquaculture

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- There are also medium term opportunities to increase the use of closed-containment to reduce the grow-out time for open-net pen aquaculture. This has the potential to significantly reduce the risk to wild salmon.
- MAACFA has discussed a range of matters related to finfish aquaculture and is anticipated to provide their report with recommendations in the fall or winter of 2017. The B.C. government looks forward to receiving and reviewing the report and any recommendations it includes.

Contact: David Travia, Corporate Governance, Policy and Legislation, 250 356-7640

ED LH ADM JM DM WS

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