

[REDACTED] (MARLAB)

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**From:** [REDACTED]  
**Sent:** 30 October 2017 12:24  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** RE: Mortality and sea lice issues, Marine Harvest

[REDACTED] is going to contact Loch Shell and Soay.

[REDACTED] is going to contact North Shore for an update.

[REDACTED] could you please contact Loch Alsh for an update as detailed below?

[REDACTED] Your visit on Monday next week has been cancelled as the site is harvested out. Please could you visit Port Na Cro for a Rep and possible Diag and collect mort figure for a mort event at BDNC and PNG on Monday PM and Tuesday AM next week.

That leaves Invasion Bay, McLeans Nose, Loch Hourn and Ardintoul to be contacted for further details and possibly a PSI cases.

[REDACTED] could you contact Ardintoul for lice and mort figures and Loch Hourn?

[REDACTED] are you free to get the mort figures for Invasion Bay and MacLean's Nose?

Mandy thanks

[REDACTED]  
[REDACTED]  
Senior Fish Health Inspector  
Marine Scotland - Science

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**From:** [REDACTED]  
**Sent:** 30 October 2017 10:42  
**To:** [REDACTED]  
**Cc:** [REDACTED]

**Subject:** Mortality and sea lice issues, Marine Harvest

I received an update on Friday lunchtime last week from [REDACTED] at Marine Harvest concerning sea lice and mortality issues at a number of their sites.

In terms of sea lice, the latest figures have been sent to you. The company has gone from usually having 2-3 sites to report to 9 sites, three of these are sitting just below an average of 8 and are being managed through harvesting and treatment. All the details should be within the file submitted to [REDACTED]

From a mortality perspective, increases have been noted from a number of sites in the last week. Anaemia issues have been of concern, not suspected to be linked to ISA or any evidence of obvious haemorrhage, but may be a consequence of the complex gill issue. Mortality has also been attributed to CMS, but in many cases there are multifactorial causes. Many of these cases will need a follow up and I suggest contacting the site manager for further details as required.

- Invasion Bay – mortality >1% per week for weeks of 2<sup>nd</sup>, 9<sup>th</sup>, 16<sup>th</sup> October – attributed to CMS
- MacLean’s Nose – historic CMS issues, but now fine that Q4s are out (Q1s only remaining on site)
- Loch Alsh – escalating morts in October up to 1% per week attributed to CMS
- Caolas A Deas (Loch Shell) – Last week 2.5% loss and 0.7% loss on east and west parts of site respectively, attributed to CMS
- Poll Na Gille – presently losing 1-2.1% per week (attributed to CMS, sea lice, anaemia)
- Soay (WLT) treatment (FW) associated mortality – 5.7% week of 9th October
- Loch Hourn (Creag an T’Sagairt) – anaemia since July but no mortality issues. Sea lice control through cleaner fish. Week of 18 September >1% mortality, last week 0.8% mortality
- Ardintoul – levels of anaemia in some pens, testing undertaken suggest no infective cause. Sea lice at 3.5 average for farm. Treatment underway but likely to result in mortality
- North Shore – over the last 4 weeks 2% mortality per week, on north shore east 3.9, 2.5, 4.1% mortality for the last 3 weeks. Some fish treated with antibiotics with some positive effect, plan to harvest out ASAP once below MRL. Extreme presentation of regenerative anaemia. Histology evidence of low grade challenge relating to the gills. No evidence of infectious cause (with respect to anaemia). Site also suffered/ suffering from AGD, PD and Pasturella.
- Port Na Cro – 1% mortality 25 September. Last week 6% mortality. Sea lice and anaemia listed as attributing factors
- BDNC – one week in October 1% mortality

The company are trying to harvest appropriate stocks as quickly as possible. It was reported that there is no capacity to increase harvest rate within the company or across the wider industry.

Actions – we need to follow up on both the mortality reports for our records (I would suggest this would be best done through site managers) and agree on a strategy of visits going forward, where required, we have visited a number of these sites recently and are due to visit some in the near future.

Presumably all the information required for the sea lice reporting has been received and is sufficient in terms of detail.

Thanks

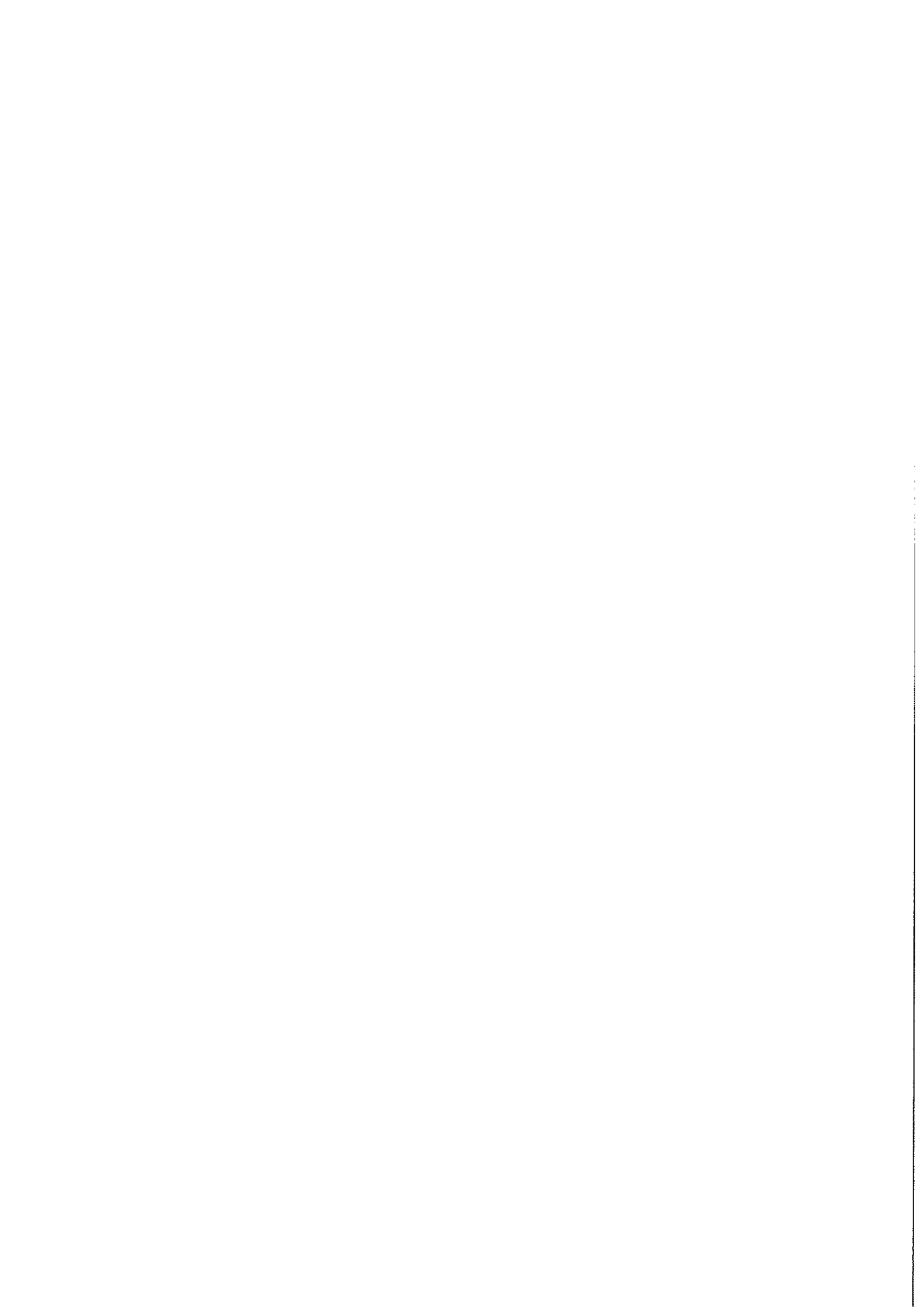
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[REDACTED]

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**From:** [REDACTED]  
**Sent:** 06 December 2017 12:38  
**To:** [REDACTED]  
**Subject:** FW: Marine Harvest - Loch Erisort

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**From:** [REDACTED]  
**Sent:** 20 October 2017 16:13  
**To:** [REDACTED]  
**Subject:** FW: Marine Harvest - Loch Erisort

Meant to pass this on yesterday – for info.

[REDACTED]

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**From:** [REDACTED]  
**Sent:** 19 October 2017 15:01  
**To:** [REDACTED]  
**Subject:** Marine Harvest - Loch Erisort

Hi [REDACTED]

This is just for FYI.

[REDACTED] Business Support Manager said: *"The health issues we have had at Loch Erisort since the end of August are the result of a bacterial infection called Pasteurella skyensis which only affects fish and is completely harmless to humans.*

*"Strains of the Pasteurella bacteria are present in many species of fish and outbreaks of infection occur from time to time. In the salmon farming industry we are experiencing ongoing changes in the sea conditions, due to factors such as climate change and global warming, which mean we have to monitor our fish even more carefully and be ready to respond accordingly.*

*"The salmon are responding well to treatment from our team of vets and we hope that we are close to resolving the problem.*

*"So far 500 tonnes or approximately 125,000 fish have died. The dead fish are handled by a specialist waste management company who take them away by lorry to the mainland where they are treated by anaerobic digestion. The biogas produced is sold to the National Grid and the end product is used for fertiliser."*

Best regards.

[REDACTED]

[REDACTED]

Business Support Manager  
MARINE HARVEST (SCOTLAND) LTD

MOBILE: [REDACTED]

DIRECT:  
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[REDACTED]

**From:** [REDACTED]  
**Sent:** 01 September 2017 15:19  
**To:** [REDACTED]  
**Subject:** RE: Fish Transfers to Mallaig

Hi [REDACTED]

Please see below a statement issued by [REDACTED] on behalf of Marine Harvest Scotland Ltd,

*During 2017 Marine Harvest can confirm that transport mortalities at our Mallaig Harvest Station fall far below the claimed average of 5% which is an absurd and mischievous figure. Well boat transport of live salmon has successfully been carried out by global salmon farming countries since the late 90s.*

*To avoid any confusion it is important to point out that on certain occasions there are deliveries of 100% dead salmon to Mallaig, which are from cage side harvesting sites, an alternative to well boat collection and harvesting in Mallaig.*

*Fish that are confirmed as dead on arrival at our Harvest Station are removed and not put into the human food chain.*

*We have detailed written procedures (Standard Operating Procedures) in place that describe the process to be followed in the event of any dead fish arriving in our Harvest Station.*

*All Marine Harvest Scotland hatcheries, farms, well boats, harvest stations and processing plant are subject to RSPCA Assured (formerly Freedom Food) audits. In addition many other audits under other quality and environmental schemes are carried out at Mallaig. These include GlobalGAP, Label Rouge, ISO 9001, ISO14001, Code of Good Practice and Protected Geographical Indication.*

I hope this is sufficient to cover your concerns, but as discussed in our telephone call you are welcome, as always, to visit Mallaig Harvest station and audit as appropriate.

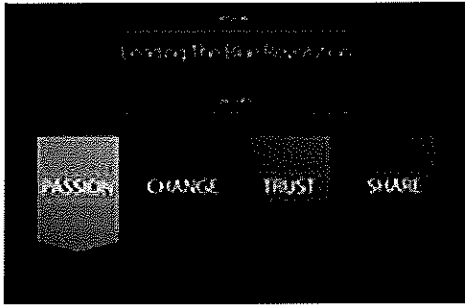
Regards

[REDACTED]

[REDACTED]  
Seawater & Feeds Coordinator  
MARINE HARVEST SCOTLAND LTD

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**OFFICE:** Stob Ban House  
Glen Nevis Business Park  
Fort William



From: [REDACTED]  
Sent: 30 August 2017 15:39  
To: [REDACTED]  
Subject: Fish Transfers to Mallaig

Dear [REDACTED]

Following our telephone conversations earlier today I am writing to confirm that Marine Scotland has received ministerial correspondence from a third party in relation to mortality rates within fish being transported for harvest. The correspondence stipulates that:

'..on average, over 5% (and sometimes considerably more) of all fish farmed off the west coast and brought into the port of Mallaig for processing are dead on arrival due to the way they are shipped'.

The communication also suggests that 'dead fish enter the human food chain' and goes on to stipulates that 'it is not trying to single out any specific company or location because the correspondent believes this to be normal and going on for years'.

Naturally the clear reference to Mallaig in the statement made would imply the Mallaig harvest station.

In this regard, and in order for Marine Scotland to provide a response, would you be able to provide me with some information or a statement covering:

- 1) the average mortality expected and experienced within live harvests to Mallaig
- 2) the procedures in place within the Harvest Station for the removal of dead fish
- 3) any product checks which could help detect mortalities which pass through the system
- 4) summary of the type of audits and audit purposes undertaken at Mallaig Harvest Station

Any response we make will refer to communication with the company or industry, rather than with Marine Harvest. Also, we may choose not to use some of the information you provide, but we can share our response with you for your awareness.

Finally, I am unaware as to the source of the information concerning average mortality rates, but recognise that such an average mortality would appear incredibly high. At the same time I accept that on rare occasions there may be instances, for whatever reason, where mortality is at 5% or greater.

Many thanks for any information you can provide.

Kind regards,  
[REDACTED]

[REDACTED]  
Marine Scotland – Science



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Dh'fhaodadh gum bi teachdaireachd sam bith bho Riaghaltas na h-Alba air a chlàradh neo air a sgrùdadh airson dearbhadh gu bheil an siostam ag obair gu h-èifeachdach neo airson adhbhar laghail eile. Dh'fhaodadh nach eil beachdan anns a' phost-d seo co-ionann ri beachdan Riaghaltas na h-Alba.

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