

\$camon \$cotland, 11 April 2023

EXPOSED: “Disappointing” Breaches of Biosecurity at ASC-Certified Mowi

- **FOI disclosure reveals net failures at Colonsay & North Uist caused escapes at Mowi**
 - **Call to close salmon farms & fine repeat offenders**
 - **Mowi’s certification as ‘responsible’ via the ASC “must be rescinded”**
 - **Mowi has reported over 433,000 escapees since 1999 via 30+ incidents**
- **Over 700,000 farmed fish officially reported as escaped in Scotland since 2012 with ca. 4 million escapees since 1998**

A [Freedom of Information disclosure by the Scottish Government](#) lifts the lid on biosecurity breaches and net failures in relation to mass escapes by Mowi at their Colonsay salmon farm in Argyll & Bute and Greanem (Grey Horse Channel Outer) salmon farm in North Uist [1].



Mowi’s Greanem salmon farm - which [reported an escape of 32,463 fish in June 2022](#) - was [certified by the Aquaculture Stewardship Council as ‘responsible’ in April 2022](#); and Mowi’s Colonsay salmon farm – which [reported an escape of 15,000 to 20,000 fish in June 2022](#) - was [certified by the Aquaculture Stewardship Council as ‘responsible’ in July 2022](#).

\$camon \$cotland is now calling on the ASC to cancel the certification of Mowi’s Colonsay and Greanem (Grey Horse Channel Outer) salmon farms as ‘responsible’ and is calling on the Scottish Government to immediately close down salmon farms which repeatedly breach biosecurity and fine serial offenders such as Mowi [2].

“The Scottish Government should close the net on breaches of biosecurity at salmon farms across Scotland,” said Don Staniford, Director of \$camon \$cotland. “Closures should start at sites with an appalling track record on escapes such as Mowi’s Colonsay, Greanem, Hellisay and Carradale salmon farms. Disease-ridden salmon farming is a noose around the neck of Scotland strangling the lifeblood out of wildlife tourism, wild fisheries and the aquatic environment. The growing problems of mass escapes, biosecurity breaches and mass mortalities exposes the irresponsible nature of Scottish salmon farming industry. The Aquaculture Stewardship Council should immediately withdraw their ‘responsible’ certification from Mowi’s faulty feedlots. Shame on supermarkets for greenwashing Scottish salmon.”

The Scottish Government's [FOI disclosure on breaches of biosecurity at salmon farms](#) reveals:

“Ministers and communication colleagues will wish to be aware that we have received a final notification from the fish escape incident at a Mowi fish farming site in Colonsay from June this year,” [reported the Scottish Government in a briefing to the Cabinet Secretary for Rural Affairs and Islands in October 2022](#). “The estimated number of fish escaped is between 15,000-20,000....the incident was attributed to a passive grading event which took place on 14 June when it is believed that the froyer ring connection had failed, adding strain to the already weakened net structure causing it to tear.”

“This latest escape event is disappointing,” [reported the Scottish Government in a briefing to the Cabinet Secretary for Rural Affairs and Islands in October 2022](#). “The Fish Health Inspectorate has attended site to conduct an investigation and will make recommendations in order to avoid similar events in future. The Scottish Government is working to support fish farms towards the goal of 100% containment. In our response to the Salmon Interactions Working Group report last year, we committed to strengthening the escapes regulatory regime and to work towards introducing fines for fish farm escapes.....We will publish a revised Technical Standard for Scottish Finfish Aquaculture to further improve containment of farmed fish.”

A [Scottish Government report on the mass escape at Mowi's Colonsay salmon farm in June 2022](#) included:

Since the site was registered in 2015, there have been six reported escapes (or circumstances that may have gave rise to a significant risk of escape) at Colonsay (see table below):

| Date Reported | Species | Number of Fish Escaped | Reported Reason for escape |
|---------------|-----------------|------------------------|----------------------------|
| 20/10/2017 | Atlantic salmon | 0 | Other |
| 18/10/2019 | Atlantic salmon | 0 | Predator |
| 08/11/2019 | Atlantic salmon | 0 | Predator |
| 17/01/2020 | Atlantic salmon | 73,684 | Pen Failure |
| 29/09/2021 | Atlantic salmon | 0 | Hole in Net |
| 16/06/2022 | Atlantic salmon | 15,000-20,000 | Hole in Net |

“Colonsay fish farm has reported 6 escape incidents and near misses since 2019, with 73,000 fish lost in 2020 in a storm event,” [reported the Scottish Government in a briefing to the Minister for Environment and Land Reform and Cabinet Secretary for Rural Affairs and Islands in September 2022](#). “The details of the escape incident will be uploaded to Scotland’s Aquaculture Website next week. We expect that there will be media activity at a future date. Past events of this scale have attracted significant media attention. Holding communication lines for the weekend are provided.”

The Scottish Government [wrote to Mowi in September 2022](#): “We can appreciate that there have been operational issues which have made the calculation of the number of escaped fish problematic. However, the provision and publication of a very broad range for the number of

escaped fish may present further issues in relation to the record keeping and husbandry operations of an aquaculture site and aquaculture production business (APB). We think the final notification should reflect any discrepancy in fish numbers following consideration of the official records of movements and mortalities required to be maintained by the authorisation conditions placed on Mowi Scotland Ltd to operate as an APB.”

Mowi “presented information regarding the discrepancies in fish numbers across the pens at the Colonsay site” [reported the Scottish Government in September 2022](#). “These discrepancies have been due to fish health issues and problems in recording mortalities across the site.....Mowi Scotland Ltd will calculate the discrepancies across the cages which received fish from the pen suffering the breach in containment, minus the average discrepancy per pen due to mortalities at the site.”

“I do not propose to record the number of escaped fish until we receive a more accurate figure,” [reported the Scottish Government in September 2022](#). “The margins of error on fish transferred to the site for on-growing and in recording mortalities that have been removed are causing Mowi Scotland Ltd difficulties in their calculations. However, I have proposed that the number of escaped fish should be the discrepancy from the official census records of live movements, harvests and mortalities. I think recording and publishing such a large range in figures would result in criticism of the record keeping and husbandry operations, which rely on the stock census, at aquaculture sites.”

“It has been very difficult to establish an exact number in relation to this incident, the site experienced two high mortality events precipitated by PD in the first instance and then AGD affecting weak fish, number control of dead fish was not easy as weather affected removal of fresh fish,” [reported Mowi in September 2022](#). “C5 was split out over four cages, these four cages all suffered a count loss but were also mixed during harvest uplift with cages with a positive number completion but taking all this into consideration and the average loss from each cage we believe the realistic loss total from this incident to be 15-20k.”

Mowi [claimed in December 2022](#): “There are new nets on order with upgraded construction and materials....Scale AQ manufacturer of Aqualine system pens have completed a inspection and repair and maintenance for Colonsay cages....HDPE knotted netting will be used as a upgrade to standard conventional Seal Pro style netting.”

“I’m not sure that Mowi Scotland Ltd have fully understood what was required,” [stated the Scottish Government in an email in January 2023](#). “They have conducted work to repair, service, replace or refurbish the equipment, however, the documented reviews were also to consider whether the procedures and equipment in place were adequate or if they required improvement. The decisions on whether to change procedures and equipment or not being documented by the reviews. The new equipment designs being trialled are fine but the documented reviews should have established the considerations for making the changes. Do they have evidence of these discussions and decisions to satisfy the requirement for documented review? Perhaps these are just recorded in communications between themselves and manufacturers/service companies? Or they haven’t really conducted a documented review and have only asked suppliers to improve the equipment spec?”

“MOWI are trialling some new gear out at Colonsay following the escape that occurred last year,” [stated the Scottish Government in an email in January 2023](#).

“Site staff attributed the damage to a seal in the first instance, however, following investigation the incident was attributed to a passive grading event which took place on 14th June 2022 when it is believed that the froyer ring connection had failed, adding strain to the already weakened net structure causing it to tear,” [stated the Scottish Government in an undated report on the mass escape at Mowi’s Colonsay salmon farm in June 2022](#). “Divers repaired the 1m hole in the net of cage 5 on the same day the seal was observed in the cage. The fish were moved into four other cages on the site and the net removed for repairs. All the froyer ring connection points (16 per cage) across the site are currently being replaced. The winch dyneema lifting ropes and the tension bar bolts are also being replaced across the site.....Following the breach in containment on 16/06/2022, recommendations have been made for improvement in relation to the selection and installation of pens and moorings, taking into consideration the environmental conditions that are experienced at the site, factoring in adequate safety margins to prevent any future failures in the weighting system. Recommendations for improvement were also made with regard to the standard operating procedure and inspection plan for pen and mooring components. The standard operating procedure for raising and lowering the weighting system should also be improved to ensure that these procedures are carefully planned and supervised to minimise any risk of escape. The site specific predator risk assessment should also be reviewed and improved to ensure that the equipment and farm design are sufficient in protecting the fish from predators.”

“Salmon farmers are far too quick to point the finger at seals even when basic net failures are to blame for mass escapes,” concluded Staniford. “These latest escape incidents at Mowi’s Colonsay and Greanem salmon farms – both [greenwashed by the ASC](#) - blow out of the water claims that offshore farming is environmentally responsible. Official data obtained from the Scottish Government* reveals that 713,331 farmed fish escaped since 2012 at an average of 64,848 fish per year – leaving the goal of 100% containment dead in the water along with [millions of disease-ridden Scottish farmed salmon](#). Since 1998, [around 4 million farmed fish](#) have escaped from Scottish salmon’s incontinent operations – any more leaks and Mowi will ditch Gordon Ramsay’s Next Level Chef to sponsor incontinence pads.”

* Data [obtained via Freedom of Information from the Scottish Government in February 2023](#)

Annual Escapes Data (based on estimated and final notification reports published on Scotland’s Aquaculture Website)

| Year | Fish Escapes |
|-----------------|--------------|
| 2012 | 40, 957 |
| 2013 | 40, 754 |
| 2014 | 184,618 |
| 2015 | 18, 096 |
| 2016 | 11,496 |
| 2017 | 31,161 |
| 2018 | 53, 301 |
| 2019 | 70, 307 |
| 2020 | 206, 522 |
| 2021 | 19, 738 |
| 2022 (to date) | 36, 381 |

Contact:

Don Staniford: 07771 541826 (salmonfarmingkills@gmail.com)

Notes to Editors:

[1] Download the Scottish Government's FOI disclosure on 28 February 2023 in full [online here](#)

[2] Letter to the Scottish Government dated 10 April 2023 – read [online here](#)

Letter to the Aquaculture Stewardship Council dated 10 April 2023 – read [online here](#)

Read more via:

[Farm salmon escape event: levels of farm/wild hybridisation](#)

[Science Advances: "Introgression from farmed escapees affects the full life cycle of wild Atlantic salmon"](#)

[There's No Escaping Norwegian Genetic Pollution For 'Scottish' Salmon!](#)

[Herald: "Fish farmers 'should face penalties and even criminal charges for mass escapes'"](#)

['At least 3,000' salmon from Carradale escape made it to rivers, report says](#)

[Fish Health Inspectorate report from Hellisay fish farm: EIR release](#)

[Mowi plans tougher, 200m pens after third escape from exposed site](#)

[BBC One Show on Mowi's Great Escape](#)

[Escaped Argyll fish farm salmon found in three rivers in England](#)

[Escaped salmon from Argyll farm appearing in west coast rivers](#)

[Anglers told to kill escaped farmed salmon caught in rivers](#)

[Zero Escapees Recovered by Mowi Out of 48,834 - That's Officially 0%!](#)

[Far from Fine: Mowi Recaptures Less Than 1% of Escapees in Scotland!](#)

[Fines, Lost Licences & Prison Sentences for Repeat Escape Offenders!](#)

[Beware of Deformed Mowi Salmon!](#)

[Nearly 50,000 salmon escaped from storm-damaged fish farm](#)

[Mass escape from Colonsay fish farm after Storm Brendan](#)

[Escape calls high energy salmon sites into question](#)

[74,000 salmon escape Mowi Scotland farm after storm](#)

[Ecological 'disaster' as 74,000 fish escape farm](#)

[Second big escape in a year at Mowi high-energy site](#)

[Salmon Eggsclusive: Scotland's 'King of Fish' is Now Viking Not Scottish!](#)

[Invasion of the Viking salmon](#)

[Fish farms are 'wiping out Scotland's wild salmon'](#)

[Escaped farmed salmon impacts](#)

['Norwegian' genes found in wild salmon populations in Wester Ross](#)

[Scottish Salmon's Great Escape](#)

[Call to jail fish-farm bosses who allow escapes](#)

Media Backgrounder: There's No Escaping Biosecurity Breaches at Salmon Farms!

Information [disclosed by the Scottish Government via FOI-2023-00340514 on 28 February 2023](#) included a briefing to the Cabinet Secretary for Rural Affairs and Islands (Mairi Gougeon) in October 2022 following a mass escape of 15,000 to 20,000 farmed salmon at Mowi's Colonsay salmon farm in June 2022 (just weeks before the site was [certified as 'responsible' by the ASC](#)):

PS/Cabinet Secretary for Rural Affairs and Islands,

Further to recent emails, Ministers and communication colleagues will wish to be aware that we have received a final notification from the fish escape incident at a Mowi fish farming site in Colonsay from June this year. The estimated number of fish escaped is between **15,000-20,000**. You may find it useful to see the background information relating to this incident and the subsequent follow-up action.

Background to incident (as reported)

The FHI was conducting a routine surveillance inspection at MOWI Scotland Ltds, Colonsay site (FS1296) on 16 June when a seal was observed by the inspector. Divers were called out to the site the same day and discovered a vertical tear in the base of the net. Following investigation the incident was attributed to a passive grading event which took place on 14 June when it is believed that the froyer ring connection had failed, adding strain to the already weakened net structure

causing it to tear. The hole was repaired by divers at the time of discovery. An Initial Notification of the circumstances which led to an increased risk of escape, was received by the Inspectorate on 16 June.

Summary

The incident was reported to have been a result of a froyer ring connection failure. Divers repaired the 1m hole in the net and the fish were moved into four other cages on the site and the net removed for repairs. All the froyer ring connection points (16 per cage) across the site are currently being replaced. Follow-up action includes a change to the procedure post net drop to immediately ensure that all net ties are in place and the net is sitting properly.

Holding lines:

- The Scottish Government is working to support fish farms towards the goal of 100% containment. In our response to the Salmon Interactions Working Group report last year, we committed to strengthening the escapes regulatory regime and to work towards introducing fines for fish farm escapes, with the ultimate goal of ring-fencing fees for wild salmonid conservation and research.
- In 2021 Scottish Government published a Code of Practice for containment to manage the interactions with marine mammals.
- We will publish a revised Technical Standard for Scottish Finfish Aquaculture to further improve containment of farmed fish.
- This latest escape event is disappointing. The Fish Health Inspectorate has attended site to conduct an investigation and will make recommendations in order to avoid similar events in future.

The mass escape of 15,000 to 20,000 farmed salmon in June 2022 was [reported by the Scottish Government](#) but has still not been reported by the media. An [escape of 73,684 from Mowi's Colonsay salmon farm](#) was [reported by the media in January 2020](#) with Mowi admitting a "structural failure" and a review of the net pen's manufacturing process.

Faulty net pen enables mass salmon escape at storm-hit Mowi Scotland farm

By Jason Holland
January 22, 2020

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Roughly 73,600 salmon weighing an average of 1.9 kilograms were lost from a single net pen during a recent storm, Mowi Scotland has confirmed.

A post-storm inspection revealed structural failure of the pen, causing a tear in the netting. Mowi said the other net pens at the site have been confirmed as secure.

The loss of fish has been reported to the regulator.

“We are very disappointed that this structural failure has occurred,” Mowi’s regional farm manager David MacGillivray said. “Despite storm Brendan severely battering many parts of Scotland’s coast last week and Colonsay being a remote and

particularly exposed location, we expect our modern infrastructure to withstand these challenges.”

Mowi said the farm’s net pens exceed both the Scottish and Norwegian technical standards for net pen design. The company and equipment supplier are now reviewing the net pen’s manufacturing process.

According to Mowi ASA’s latest trading update, its Scottish operations harvested 14,000 metric tons (MT) of gutted weight equivalent (GWE) salmon in the fourth-quarter of 2019, up from 12,000 MT in the final three months of 2018.

Mowi struggled to report an accurate figure for the number of escaped salmon from their [ASC-certified Colonsay farm](#) in June 2022 due to “operational issues”. The Scottish Government [reported in an email dated 28 September 2022](#):

I had a meeting today with Mowi Scotland Ltd regarding the final escape notification. They presented information regarding the discrepancies in fish numbers across the pens at the Colonsay site. These discrepancies have been due to fish health issues and problems in recording mortalities across the site.

My suggested resolution to use the official census figures, to establish the number of fish lost due to the containment breach, would have been an oversimplification and would have resulted in a significant over estimation of number of escaped fish. An additional complication is also encountered as the pen which suffered the breach in containment was subsequently split over a number of cages which would also have had discrepancies occurring due to the issues in recording mortalities.

Mowi Scotland Ltd will calculate the discrepancies across the cages which received fish from the pen suffering the breach in containment, minus the average discrepancy per pen due to mortalities at the site. This new estimation of number of fish which may have breached containment will be submitted as an update to the final notification.

Another [email from the Scottish Government dated 20 September 2022](#) included:

Please see the attached updated final notification and email correspondence below regarding the reported escape incident at Mowi Scotland Ltd's farm site Colonsay

(FS1296). I do not propose to record the number of escaped fish until we receive a more accurate figure.

The margins of error on fish transferred to the site for on-growing and in recording mortalities that have been removed are causing Mowi Scotland Ltd difficulties in their calculations. However, I have proposed that the number of escaped fish should be the discrepancy from the official census records of live movements, harvests and mortalities.

I think recording and publishing such a large range in figures would result in criticism of the record keeping and husbandry operations, which rely on the stock census, at aquaculture sites. I will update you with any further information received.

An [email from the Scottish Government to Mowi dated 20 September 2022](#) referred to “operational issues which have made the calculation of the number of escaped fish problematic”:

Thank you for providing the updated final notification. We can appreciate that there have been operational issues which have made the calculation of the number of escaped fish problematic. However, the provision and publication of a very broad range for the number of escaped fish may present further issues in relation to the record keeping and husbandry operations of an aquaculture site and aquaculture production business (APB).

We think the final notification should reflect any discrepancy in fish numbers following consideration of the official records of movements and mortalities required to be maintained by the authorisation conditions placed on Mowi Scotland Ltd to operate as an APB.

A [briefing to the Cabinet Secretary for Rural Affairs and Islands \(Mairi Gougeon\) and the Minister for Environment and Land Reform \(Mairi McAllan\) dated 16 September 2022](#) included:

Potential Escape at Colonsay fish farm

Ministers will wish to be aware that we await the final notification from a potential escape incident at another Mowi fish farming site in Colonsay from June. We expect

the final notification next week and will provide an update to Ministers. Colonsay fish farm has reported 6 escape incidents and near misses since 2019, with 73,000 fish lost in 2020 in a storm event.

Annual Escapes Data (based on estimated and final notification reports published on Scotland's Aquaculture Website)

| Year | Fish Escapes |
|-----------------|--------------|
| 2012 | 40, 957 |
| 2013 | 40, 754 |
| 2014 | 184,618 |
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| 2016 | 11,496 |
| 2017 | 31,161 |
| 2018 | 53, 301 |
| 2019 | 70, 307 |
| 2020 | 206, 522 |
| 2021 | 19, 738 |
| 2022 (to date) | 36, 381 |

Communications Activity

The details of the escape incident will be uploaded to Scotland's Aquaculture Website next week. We expect that there will be media activity at a future date. Past events of this scale have attracted significant media attention. Holding communication lines for the weekend are provided.

An [‘Initial Notification’ of the Colonsay escape by Mowi on 16 June 2022](#) gave no specific numbers but detailed:

3. Please provide details of the circumstances surrounding the fish escape or potential escape (if necessary continue on a separate sheet):

| | |
|--|--|
| Circumstances Surrounding the Escape or potential Escape Consider: Human error, predation, suspected foul play, failure or wear and tear of equipment (mooring, ropes, netting, cages or pens, boats), weather conditions (wave height, wind speed and tidal strength): | A seal was seen in pen 5 today whilst an inspection of the site was being carried out. Divers were on site and went into the pen and found a straight vertical tear approx. 1mtr at a depth of 12 mtrs at the bottom of the side wall where it meets the base. |
| Suspected Primary Reason for Escape or potential Escape | Hole which the froyer ring may have caused (suspected due to size) |
| Suspected Underlying Cause of Reason for Escape or potential Escape(if applicable) | It is thought when the last passive grade harvest happened the froyer ring has caught and ripped the net, which happened yesterday. |

A [‘Final Notification’ of the Colonsay escape by Mowi in 29 September 2022](#) detailed:

2. Please provide final details of the escape or Potential escape:

| | | | |
|-------------------------------|------------|--|---|
| Date of initial notification: | 16/06/2022 | Total number of fish lost (if none please specify "none") *: | It has been very difficult to establish an exact number in relation to this incident, the site experienced two high mortality events precipitated by PD in the first instance and then AGD affecting weak fish, number control of dead fish was not easy as weather affected removal of fresh fish. C5 was split out over four cages, these four cages all suffered a count loss but were also mixed during harvest uplift with cages with a positive number completion but taking all this into consideration and the average loss from each cage we believe the realistic loss total from this incident to be 15-20k. |
|-------------------------------|------------|--|---|

| | | | |
|---|--|---|--|
| Marine Scotland incident reference: | MSc160622SAL1 | Number of fish recovered (if none please specify "none"): | None |
| Action taken by business to recover fish: | N/A | Have site movement records been updated: | Movement book was updated after each harvest until empty |
| Confirmed Primary Reason for Escape or potential Escape | Hole found on base of net. | | |
| Confirmed Underlying Cause of Reason for Escape or potential Escape (if applicable) | Strategic ropes connecting the net to the froya ring parted leaving more strain on a single connection which caused the net to part which was then aggravated further by seals.. | | |

3. Follow-up action:

| | |
|--|--|
| What preventative measures have or will be taken to minimise the risk of a similar incident occurring on this or any of the business' other sites (continue on a separate sheet if necessary): | <i>We will set up our cages in the same way and carry out pre lift checks as per normal procedure but will change our procedure post net drop to immediately ensure that all net ties are in place and the net is sitting properly, we have purchased a ROV to allow us to do this if divers don't happen to be on site.</i> |
|--|--|

A [Scottish Government report \(undated\) on the Colonsay escape](#) included:

Since the site was registered in 2015, there have been six reported escapes (or circumstances that may have gave rise to a significant risk of escape) at Colonsay (see table below):

| Date Reported | Species | Number of Fish Escaped | Reported Reason for escape |
|---------------|-----------------|------------------------|----------------------------|
| 20/10/2017 | Atlantic salmon | 0 | Other |
| 18/10/2019 | Atlantic salmon | 0 | Predator |
| 08/11/2019 | Atlantic salmon | 0 | Predator |
| 17/01/2020 | Atlantic salmon | 73,684 | Pen Failure |
| 29/09/2021 | Atlantic salmon | 0 | Hole in Net |
| 16/06/2022 | Atlantic salmon | 15,000-20,000 | Hole in Net |

Background

The inspectorate was conducting a routine surveillance inspection at MOWI Scotland Ltds, Colonsay site (FS1296) on Thursday 16th June 2022 when a seal was observed by the inspector in cage 5. Divers were called out to the site the same day and discovered a vertical tear of approximately 1m in length at a depth of 12m, where the sidewall meets the base of the net.

Site staff attributed the damage to a seal in the first instance, however, following investigation the incident was attributed to a passive grading event which took place on 14th June 2022 when it is believed that the froyer ring connection had failed, adding strain to the already weakened net structure causing it to tear. The hole was repaired by divers at the time of discovery. In addition, the repair was also covered with the grade panel sweep net (15mm mesh) as a contingency in case the net repair failed due to the increased tension before the fish could be removed. Initial notification of the circumstances which led to an increased risk of escape, was received by the inspectorate on Thursday 16th June 2022.

The final notification was submitted on 8th July 2022 stating that between 15,000 and 20,000 fish are believed to have escaped during the incident.

Summary

The circumstances that led to the significant increase in the risk of escape from MOWIs Colonsay site resulted in a loss of 15,000 – 20,000 fish. The incident was reported to have been a result of a froyer ring connection failure.

Divers repaired the 1m hole in the net of cage 5 on the same day the seal was observed in the cage. The fish were moved into four other cages on the site and the net removed for repairs. All the froyer ring connection points (16 per cage) across the site are currently being replaced. The winch dyneema lifting ropes and the tension bar bolts are also being replaced across the site.

FHI Recommendations

Following the breach in containment on 16/06/2022, recommendations have been made for improvement in relation to the selection and installation of pens and moorings, taking into consideration the environmental conditions that are experienced at the site, factoring in adequate safety margins to prevent any future failures in the weighting system. Recommendations for improvement were also made with regard to the standard operating procedure and inspection plan for pen and mooring components. The standard operating procedure for raising and lowering the weighting system should also be improved to ensure that these procedures are carefully planned and supervised to minimise any risk of escape. The site specific predator risk assessment should also be reviewed and improved to ensure that the equipment and farm design are sufficient in protecting the fish from predators.

A [Fish Health Inspectorate Visit Report dated 12 October 2022](#) included:



Scottish Government
Riaghaltas na h-Alba
gov.scot

FISH HEALTH INSPECTORATE VISIT REPORT

SUMMARY FOR INFORMATION OF SITE OPERATOR

| | | | |
|-------------|----------|---------------|------------|
| BUSINESS NO | FB0119 | DATE OF VISIT | 16/06/2022 |
| SITE NO | FS1296 | SITE NAME | Colonsay |
| CASE NO | 20220201 | INSPECTOR | (REDACTED) |

Escape Investigation

Following the circumstances of the reported escape of Atlantic salmon on the 16/06/2022, the following recommendations are made for improvement at the site:

Due to the failure of weighting system connections, it is recommended that a documented review is undertaken to revise and improve the standard operating procedure and inspection plan for pen and mooring components, which is based on risk assessment, in accordance with A Code of Good Practice for Scottish Finfish Aquaculture (CoGP) Chapter 4, point 4.16.

It is recommended that a documented review is undertaken of the design, quality and standard of manufacture of nets to take account of the conditions likely to be experienced on the site, including an adequate safety margin to prevent the failure of weighting system connections to meet the requirements of CoGP Chapter 4, point 4.20.

It is recommended that a documented review is undertaken of the inspection procedures and frequencies for nets and the weighting systems as required by the CoGP Chapter 4, points 4.23 and 4.24, to ensure that weighting system connection failures are prevented.

It is recommended that a documented review should be undertaken of the procedure for raising and lowering weighting systems, the associated risk assessment and contingency plan, to ensure that procedures that could increase the risk of fish escaping from pens should be carefully planned and supervised to minimise any risk and that a documented risk assessment, a standard operating procedure and a contingency plan are in place in accordance with CoGP Chapter 4, points 4.29 and 4.30, .

It is recommended that a documented review is undertaken of the predator risk assessment as required by the CoGP Chapter 4, point 4.26, to ensure that the requirement of the CoGP Chapter 4, point 5.8 are met by the equipment and farm design protecting the fish from predators.

Please ensure that these points have been addressed by 31st December 2022. Records or documentation demonstrating that these points have been addressed should be sent to the Fish Health Inspectorate (contact details below). The site may be subject to further inspection or enforcement action should the appropriate action regarding the above points not be taken within the time period stipulated.

In January 2023, Mowi was [asked by the Scottish Government to provide more evidence on the measures taken to prevent future escapes at Colonsay](#):

From: (REDACTED)@gov.scot <(REDACTED)@gov.scot>
 Sent: 20 January 2023 11:42
 To: (REDACTED) <(REDACTED)@mowi.com>
 Cc: (REDACTED) <(REDACTED)@mowi.com>; (REDACTED) <(REDACTED)@mowi.com>; (REDACTED) <(REDACTED)@mowi.com>; (REDACTED) <(REDACTED)@mowi.com>; (REDACTED) <(REDACTED)@mowi.com>
 Subject: RE: Open NC from Marine Scotland at Colonsay
 Importance: High

Hi (REDACTED)

Following on from my below email, I'm not sure that you have fully understood what was required. You have conducted work to repair, service, replace or refurbish the equipment, however, the documented reviews were also to consider whether the procedures and equipment in place were adequate or if they required improvement. The decisions on whether to change procedures and equipment or not should have been documented by the reviews. The new equipment designs being trialled are fine but the documented reviews should have established the considerations for making the changes. Do you have evidence of these discussions and decisions to satisfy the requirement for documented review?

This could just be recorded in communications between yourselves and the manufacturers/service companies? Or perhaps, you haven't conducted a documented review and have only asked suppliers to improve the equipment spec?

Let me know,
 (REDACTED)

(REDACTED)
 Senior Fish Health Inspector
 Marine Scotland - Science

Scottish Government | Marine Laboratory | 375 Victoria Road | Aberdeen | AB11 9DB

Tel: (REDACTED)
 S/B: +44 (0)131 244 2500
 Mobile: (REDACTED)
 e: (REDACTED)@gov.scot
 w: <https://www.gov.scot/marine-and-fisheries/>



Here's the official escapes report for Colonsay [published by the Scottish Government](#):

| Fish Escape Details | | |
|----------------------------|---------------------------|--------------------|
| Escape Id | 444 | |
| Operator at Time of Escape | Mowi Scotland Ltd | |
| Escape Water Type | S | |
| Escape Start Date | 16/06/2022 | |
| Escape Start Time | 00:00 | |
| Escape End Date | 16/06/2022 | |
| Escape Grid Reference | NR434987 | |
| Escaped Species | Atlantic Salmon | |
| Stage | Grower fish (salmon only) | |
| Age | 23 months | |
| Average Weight | 3.1kg | |
| | Initial Notification | Final Notification |
| Date | 16/06/2022 | 08/07/2022 |
| Number of Fish Escaped | Not Known | 15,000 - 20,000 |
| Number of Fish Recovered | | N/A |
| Escape Reason | Hole in Net - HOL | Hole in Net - HOL |

Data supplied by Marine Scotland on 12/02/2023

| Site Details | |
|---|--|
| Site ID | FS1296 |
| Site Name | Colonsay |
| Address | Stob Ban House Glen Nevis Business Park PH33 6RX |
| Telephone Number | |
| Date Registered | 09/04/2015 |
| Operator | Mowi Scotland Ltd |
| Aquaculture Type | Fish |
| Water Type | Seawater |
| Species | Atlantic Salmon, Lump sucker, N/A, Wrasse |
| Health Surveillance Frequency | Low |
| Production reported to Marine Scotland within last 3 years? | Yes |
| National Grid Reference | NR434988 |
| Easting | 143400 |
| Northing | 696800 |
| Marine Scotland Management Area | 16e - Colonsay |
| Local Authority | Argyll and Bute |
| Region | Strathclyde |
| View on Map | View on map |

Data supplied by Marine Scotland on 12/02/2023

Notice that the Colonsay escape took place on 16 June 2022 – just four days before the [ASC announced an initial audit of the Mowi salmon farm](#) and just over a month before the [ASC certified the Colonsay salmon farm as ‘responsible’](#):


Aquaculture Stewardship Council

Certificate Holder

| | |
|-------------------|--------------------|
| Company | Mowi Scotland |
| Farm (UoC) | Colonsay Fish Farm |
| Country | United Kingdom |

Certification Details

| | |
|-------------------------------|---------------|
| ASC Certificate Number | ASC01965 |
| CAB Certificate ID | ASC-F-0137 |
| Status | Certified |
| Valid from | July 18, 2022 |
| Valid until | July 17, 2025 |

Site(s)

| Site name | Status | Species | Address | GIS |
|-------------------------------|-----------|-------------------------------|---------|---|
| Colonsay (S0004923) | Certified | Salmo salar (Atlantic salmon) | | SHOW ON MAP |

Associated Document(s)

| Document Type | Associated audit | Date Published | Download |
|-------------------------------------|------------------|----------------|--------------------------------------|
| Audit Announcement | Initial Audit | June 20, 2022 | Available in English |
| Initial Audit Report – Draft | Initial Audit | July 12, 2022 | Available in English |
| Initial Audit Report – Final | Initial Audit | July 18, 2022 | Available in English |
| Certificate | | July 18, 2022 | Available in English |

The [ASC ‘Salmon Standard’ published in September 2022](#) includes:

Criterion 3.4 Escapes⁵⁴

| INDICATOR | REQUIREMENT |
|---|-------------------|
| 3.4.1 Maximum number of escapees ⁵⁵ in the most recent production cycle | 300 ⁵⁶ |
| 3.4.2 Accuracy ⁵⁷ of the counting technology or counting method used for calculating stocking and harvest numbers | ≥ 98% |
| 3.4.3 Estimated unexplained loss ⁵⁸ of farmed salmon is made publicly available | Yes |
| 3.4.4 Evidence of escape prevention planning and related employee training, including: net strength testing; appropriate net mesh size; net traceability; system robustness; predator management; record keeping and reporting of risk events (e.g., holes, infrastructure issues, handling errors, reporting and follow up of escape events); and worker training on escape prevention and counting technologies | Yes |

⁵⁶ A rare exception to this standard may be made for an escape event that is clearly documented as being outside the farm's control. Only one such exceptional episode is allowed in a 10-year period for the purposes of this standard. The 10-year period starts at the beginning of the production cycle for which the farm is applying for certification. The farmer must demonstrate that there was no reasonable way to predict the events that caused the episode. See auditing guidance for additional details.

⁵⁷ Accuracy shall be determined by the spec sheet for counting machines and through common estimates of error for any hand-counts.

⁵⁸ Calculated at the end of the production cycle as: Unexplained loss = Stocking count – harvest count – mortalities – other known escapes. Where possible, use of the pre-smolt vaccination count as the stocking count is preferred.

Since Mowi's Colonsay salmon farm has reported six escape incidents since the site was established in 2015 ([under controversial circumstances](#)) – including [15,000 to 20,000 escapees in June 2022](#) and [73,684 escapees in January 2020](#) – it begs the question: why the f**k is Mowi's Colonsay salmon farm [currently certified as 'responsible' by the ASC up to July 2025](#)?

| Escape Id | Escape Start Date | Escaped Species | Final Number of Fish Escaped | Site Id | Site Name | Operator | Actions |
|-----------|-------------------|-----------------|------------------------------|---------|-----------|-------------------|----------------------|
| | | | | | Colonsay | Mowi | |
| 444 | 16/06/2022 | Atlantic Salmon | 15,000 - 20,000 | FS1296 | Colonsay | Mowi Scotland Ltd | More |
| 439 | 29/09/2021 | Atlantic Salmon | 0 | FS1296 | Colonsay | Mowi Scotland Ltd | More |
| 160 | 17/01/2020 | Atlantic Salmon | 73,684 | FS1296 | Colonsay | Mowi Scotland Ltd | More |
| 158 | 08/11/2019 | Atlantic Salmon | none | FS1296 | Colonsay | Mowi Scotland Ltd | More |
| 159 | 18/10/2019 | Atlantic Salmon | none | FS1296 | Colonsay | Mowi Scotland Ltd | More |
| 157 | 20/10/2017 | Atlantic Salmon | 0 | FS1296 | Colonsay | Mowi Scotland Ltd | More |

Photos [disclosed by the Scottish Government via FOI-2023-00340514 on 28 February 2023](#) reveal how net failures led to another mass escape at Mowi's Greanem (Grey Horse Channel Outer) salmon farm in North Uist in June 2022 (three months after being [certified by the ASC in April 2022](#)).

Visual Illustration of Rope Damage



Example of the splice/binding of focus point (A) in Image 1.0. – note that VDR is running over LGR



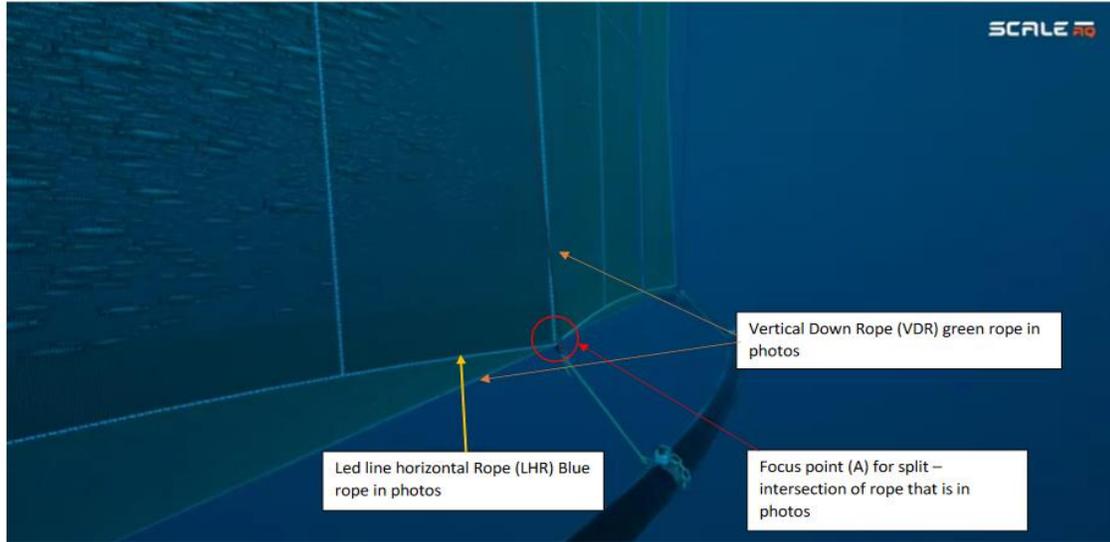
Example of the splice/binding of focus point (A) in Image 1.0. – example of rubbing of VDR on the LGR



Photo of where split occurred – can see fraying of LGR causing it to break – transferring additional weight to net along VDR further exaggerated by the sinker tube being down.

Visual Illustration of Rope Damage

Image 1.0 – Reference picture for context to photos



Mowi’s [‘Initial Notification’ of the Greanem escape on 2 June 2022](#) cited ‘net failure’ as the primary cause and detailed PGD (Proliferative Gill Disease) and complex gill pathology:

2. Please supply the following details regarding the fish escape:

| | | | |
|---|--|--------------------------------|----------------|
| Date & time of incident (nearest estimate) | 2/6/22, 0900hrs | OS grid reference: | |
| Site location: | North Uist | Estimated number of fish lost: | TBC |
| Species: | Salmon | Average weight: | 2.9kg |
| Age in months: | 14 months | Growth stage: | Grower/Harvest |
| Please supply details of any treatments administered for which the fish are in withdrawal: | None | | |
| Please confirm whether the fish were healthy at the time of the escape, or the nature of any disease: | No issues other than PGD and complex gill pathology | | |
| Please confirm mortality rates on site and the reasons for mortality: | 4% for month of May. 70% gill related, 30% seal predation. | | |

3. Please provide details of the circumstances surrounding the fish escape or potential escape (if necessary continue on a separate sheet):

| | |
|--|--|
| Circumstances Surrounding the Escape or potential Escape Consider: Human error, predation, suspected foul play, failure or wear and tear of equipment (mooring, ropes, netting, cages or pens, boats), weather conditions (wave height, wind speed and tidal strength): | Whilst lowering a sinker ring post-harvest, it appears something has snagged underwater and subsequently caused a tear in netting approx. 8m long and 0.3m wide. Nothing untoward was noticed at the time of lowering and the damage was identified this morning, and repaired quickly. Weather conditions have been good. |
| Suspected Primary Reason for Escape or potential Escape | Net failure |
| Suspected Underlying Cause of Reason for Escape or potential Escape(if applicable) | Underwater snag of netting on sinker ring |

Mowi's '[Final Notification](#)' dated 13 September 2022 detailed 32,463 fish as escaping from the ASC-certified site at Greanem (Grey Horse Channel Outer) on 2 June 2022:

FARMED FISH ESCAPES – FINAL NOTIFICATION

This form is to be submitted **not later than 28 days** following the submission of the initial notification of circumstances which caused or might have caused the escape of fish from a fish farm site.

Please refer to "WHAT TO DO IN THE EVENT OF AN ESCAPE OF FISH FROM A FISH FARM" for further guidance on how to complete this form: www.scotland.gov.uk/Topics/Fisheries/Fish-Shellfish

1. Please supply details of the business and the site (Read our [privacy notice](#) to find out what we do with your information.):

| | | | |
|---------------|-------------------|----------------|---------------------|
| Site Name: | Greanem | Site No: | FS1334 |
| APB Name: | Mowi Scotland Ltd | APB No: | FB0119 |
| Contact Name: | (REDACTED) | Telephone No: | (REDACTED) |
| FAX No: | | Email Address: | (REDACTED)@mowi.com |

2. Please provide final details of the escape or Potential escape:

| | | | |
|---|--|--|---|
| Date of initial notification: | 02/06/2022 | Total number of fish lost (if none please specify "none") *: | 32 463 |
| Marine Scotland incident reference: | MSE020622SAL1 | Number of fish recovered (if none please specify "none"): | N/A |
| Action taken by business to recover fish: | None | Have site movement records been updated: | Movement book was update after each harvest until empty |
| Confirmed Primary Reason for Escape or potential Escape | Tear in net | | |
| Confirmed Underlying Cause of Reason for Escape or potential Escape (if applicable) | Due to design, rubbing on a weight baring rope along with additional tension caused by partially lowered sinker tube caused rope to snap and weight transferred onto net causing tare. | | |

3. Follow-up action:

| | |
|--|--|
| What preventative measures have or will be taken to minimise the risk of a similar incident occurring on this or any of the business' other sites (continue on a separate sheet if necessary): | Removal of fish out of pens on site and discarding of nets with this design fault. These nets are no longer in circulation in the company. |
|--|--|

The [Scottish Government](#) wrote to Mowi on 23 June 2022:

From: (REDACTED) (MARLAB)
Sent: 23 June 2022 09:00
To: (REDACTED) <(REDACTED)@mowi.com>
Cc: (REDACTED) <(REDACTED)@mowi.com>; (REDACTED) <(REDACTED)@mowi.com>
Subject: RE: Risk to Containment due to Pen Weighting Systems

Hi (REDACTED)

Thank you for the information on your ongoing investigations and the confirmation that the remaining stocks are safe. The FHI look forward to the information that becomes available from the investigations and an update on the mitigations in place to prevent abrasion and damage to nets from weighting systems.

I will also pass on your frustrations to colleagues regarding the publication of the new version of A Technical Standard for Scottish Finfish Aquaculture (STS), which required the updating and revision of some sections. I would note that the current version of the STS is still available for guidance and that, as far as I am aware, the requirements with regard to weighting systems on pen nets will remain the same when the revised STS is published.

The conclusions of the investigations in to Mowi Scotland Ltd's recently reported potential escape incidents could be very helpful in advising any future revisions of the STS and should perhaps be used to provide advice to be considered by the Improved Containment Working Group. This could ensure the STS guidance remains fit for purpose and help prevent any loss of containment for aquaculture animals, as farm pen sizes increase and farms are developed in areas with more challenging environmental conditions.

Here's the [Scottish Government report detailing 32,463 escapees](#) (with zero fish recovered):

| Fish Escape Details | | |
|----------------------------|---------------------------|------------------------|
| Escape Id | 443 | |
| Operator at Time of Escape | Mowi Scotland Ltd | |
| Escape Water Type | S | |
| Escape Start Date | 02/06/2022 | |
| Escape Start Time | 09:00 | |
| Escape End Date | | |
| Escape Grid Reference | No data available | |
| Escaped Species | Atlantic Salmon | |
| Stage | Grower fish (salmon only) | |
| Age | 14 months | |
| Average Weight | 2.9kg | |
| | Initial Notification | Final Notification |
| Date | 02/06/2022 | 14/09/2022 |
| Number of Fish Escaped | TBC | 32,463 |
| Number of Fish Recovered | | N/A |
| Escape Reason | Equipment damage - EQD | Equipment damage - EQD |

Data supplied by Marine Scotland on 12/02/2023

| Site Details | |
|---|---|
| Site ID | FS1334 |
| Site Name | Grey Horse Channel Outer |
| Address | Hoebeg Cheesebay Loch Maddy North Uist HS6 5AT |
| Telephone Number | |
| Date Registered | 18/09/2019 |
| Operator | Mowi Scotland Ltd |
| Aquaculture Type | Fish |
| Water Type | Seawater |
| Species | Atlantic Salmon, Lump sucker, N/A, Wrasse |
| Health Surveillance Frequency | Medium |
| Production reported to Marine Scotland within last 3 years? | Yes |
| National Grid Reference | NF993754 |
| Easting | 99300 |
| Northing | 875400 |
| Marine Scotland Management Area | 5c - E North Uist |
| Local Authority | Western Isles |
| Region | Western Isles |
| View on Map | View on map |

Data supplied by Marine Scotland on 12/02/2023

A [briefing to the Cabinet Secretary for Rural Affairs and Islands \(Mairi Gougeon\) and the Minister for Environment and Land Reform \(Mairi McAllan\) dated 16 September 2022](#) included:

Ministers and communication colleagues will wish to be aware of the following fish farm escape and mortality incidents.

Details of Escape

- Date of Incident: 2 June 2022
- Site Location: North Uist – Mowi
- Species: Atlantic Salmon
- Age in months: 14
- Weight: 2.9kg
- Reason for Escape: Hole in Net.

A final notification received 13 September 2022 confirmed that the total number of fish escaped was **32,463**.

Circumstances surrounding the Escape (as reported)

Whilst lowering a sinker ring post-harvest, it appears something has snagged underwater and subsequently caused a tear in netting approx. 8m long and 0.3m wide. Nothing untoward was noticed at the time of lowering and the damage was identified and repaired quickly. Weather conditions were good.

Follow-up Action

Removal of fish out of pens on site and nets with this design fault have been discarded. These nets are no longer in circulation by the company. A containment investigation was completed by the Fish Health Inspectorate. An audit report with recommendations will be provided to the site.

An [Scottish Government report dated 16 August 2022](#) on the Greanem (Grey Horse Channel Outer) escape included:

Grey Horse Channel Outer Escape Report



Grey Horse Channel Outer (FS1334) is an Atlantic salmon (*Salmo salar*) seawater site owned and operated by MOWI Scotland Ltd, located near Cheesebay Isle of North Uist (NF993754) and is situated within the disease management area 5c - E North Uist. The site consists of 12 circular floatation collar pens each measuring 120m in circumference. The site currently uses 18mm Aqualine AS Midgard nets. The site is authorized to stock Atlantic salmon (*Salmo salar*), Lumpfish (*Cyclopterus lumpus*) and Wrasse (of the genus *Labridae*).

The site was registered in 2019 and has reported an escape on the 2nd June 2022, escape incident number: MSe020622SAL1.

Background

The incident was first reported to the FHI on 02/06/2022 following the discovery and repair of a tear in the netting of approximately 8m in length and 0.3m wide. The tear occurred during harvest procedures at pen position 42 on the 1st June 2022, believed to have happened whilst lowering the sinker ring following completion of the harvest. The damage was first discovered by staff operating a net washer on the 2nd June 2022 and divers were immediately called in for repair that morning. Following the escape incident all fish from Grey Horse Channel Outer (GHCO) were moved to the nearby site Groatay (FS1083) to allow for an in-depth inspection of the facilities at GHCO to be conducted.

MOWI Scotland Ltd submitted their final notification of escape on 29/06/2022. The event has been classed as a multifactorial incident as the investigation of the incident by the company found that the design of the nets had a flaw regarding the position where the vertical rope meets the base lead line. Where these ropes join at the base of the net chaffing had been occurring due to the ropes not being spliced efficiently together. This is thought to have caused a weakness in the net. During the harvest procedure on 01/06/2022, two of the pens eight built in winches had failed, the site had to use boat operated winches to temporarily take the strain from faulty pen side winches to lower the net. It is believed that this operation has resulted in an imbalance of weight distribution and tension when lowering the sinker ring, which has led to the net tearing the weakened area.

FHI Investigation

The FHI conducted an escapes investigation and enhanced containment audit on 26/07/2022.

GHCO was followed on the 23rd June 2022 following the notification of an escape incident at pen 42, all fish were transferred to a nearby site Groatay. Pictured below are that of pen 42 on the date of inspection and a picture of one of the 8 built in Gael Force winches installed at the pen.



Winches

Each pen at GHCO has 8 electric winches, positioned approximately with one every six stanchions. Winches are all connected to one electrical box per pen. To operate the winches, this box is manually plugged into the sites work boat where operation of the winches can be conducted to offer either individual operation or synchronous operation. There is a manual kill switch for health and safety on each winch (red button on the side). All winches have a "failsafe" rope and chain near/next to them connected to the sinker tube and the cage. The failsafe rope can be used to lift the sinker tube if the winch was to fail.

On the 1st June 2022 during the preparation of pen 42 for harvest it was found that two winches, positioned side by side were not functioning. The winches had been checked a week prior to the harvest by site staff and were reported to be operational. At the time, pen 42 was the only pen on starve and ready to be harvested, so the harvest could not be deferred to another pen. According to the (REDACTED), the normal 'procedure' for when a winch fails is to lift the working winches to the halfway point, then manually lift the rope for the winch that has failed with the boat to the half way point, after that lift the winches the remainder of the way up, followed by the manual lift with the boat to the top. This procedure was followed in order to carry out the harvest on the 1st June and no further issues were reported by site staff to site management.

Damage to the net of pen 42 was identified the following morning by the net washing team, divers were then deployed to fix an approximate tear of 8m x 0.3m to the side of the net, originating from the base up the side wall of the net.

Following the identification of this damage, Gael Force visited the site to repair the faulty winches and service the remaining winches at pen 42. It was found that the two failed winches had suffered from an electrical fault which was repaired onsite. All winches were deemed fit for use following the service.

Following the escapes incident, all remaining fish at GHCO were transferred to the companies nearby site Groatay to allow for an in depth investigation of the sites equipment. It was found that the nets, 18mm Aqualine AS Midgard nets had a flaw in their design which is now believed to have caused a weakness in the net which otherwise would have prevented this damage from occurring. It was found that the lead line was not properly spliced into the vertical rope at the join, instead the vertical rope was "looped" over the leadline. This had allowed for friction to occur overtime causing chaffing of the net around this area. Following the discovery of the issue with the design in the net, a meeting occurred between site management and the net manufacturer which resulted in all nets of this type and design being altered to prevent any chaffing at the rope joins along the base of the nets by splicing the ropes of the base lead line and vertical ropes together. All nets at GHCO are to be removed from service and to be replaced with new HDP nets for the next production cycle.

Mowi is a serial offender in terms of mass escapes with over 433,000 fish officially reported as escaped since 1999 – including the following incidents [reported by the Scottish Government](#):

| Escape Id | Escape Start Date | Escaped Species | Final Number of Fish Escaped | Site Id | Site Name | Operator | Actions |
|----------------------|----------------------|----------------------|------------------------------|----------------------|--------------------------|-------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | Mowi | <input type="text"/> |
| 444 | 16/06/2022 | Atlantic Salmon | 15,000 - 20,000 | FS1296 | Colonsay | Mowi Scotland Ltd | More |
| 443 | 02/06/2022 | Atlantic Salmon | 32,463 | FS1334 | Grey Horse Channel Outer | Mowi Scotland Ltd | More |
| 155 | 15/02/2021 | Atlantic Salmon | 19,686 | FS1261 | Hellisay | Mowi Scotland Ltd | More |
| 140 | 20/08/2020 | Atlantic Salmon | 48,834 | FS1176 | Eilean Grianain | Mowi Scotland Ltd | More |
| 160 | 17/01/2020 | Atlantic Salmon | 73,684 | FS1296 | Colonsay | Mowi Scotland Ltd | More |
| 154 | 10/10/2019 | Atlantic Salmon | 23970 | FS1261 | Hellisay | Mowi Scotland Ltd | More |
| 156 | 12/11/2018 | Atlantic Salmon | 24,752 | FS1261 | Hellisay | Mowi Scotland Ltd | More |
| 139 | 02/06/2015 | Atlantic Salmon | 16,000 | FS1176 | Eilean Grianain | Mowi Scotland Ltd | More |
| 115 | 02/03/2010 | Atlantic Salmon | 10,775 | FS0150 | Loch Lochy | Mowi Scotland Ltd | More |
| 135 | 28/06/2009 | Atlantic Salmon | 10534 | FS0865 | Marulaig Bay | Mowi Scotland Ltd | More |
| 132 | 13/10/2008 | Atlantic Salmon | 7424 | FS0248 | Loch Duich | Mowi Scotland Ltd | More |
| 93 | 11/07/2008 | Atlantic Salmon | 5500 | FS0464 | Ardmaddy | Mowi Scotland Ltd | More |
| 102 | 29/11/2007 | Atlantic Salmon | 23,805 | FS1084 | Isle Ewe | Mowi Scotland Ltd | More |
| 161 | 28/12/2006 | Atlantic Salmon | 11,900 | FS1042 | Seaforth | Mowi Scotland Ltd | More |
| 133 | 15/07/2006 | Atlantic Salmon | 1950 | FS0245 | Ardintoul | Mowi Scotland Ltd | More |
| 94 | 05/04/2006 | Atlantic Salmon | 5500 | FS0464 | Ardmaddy | Mowi Scotland Ltd | More |
| 149 | 09/10/2005 | Atlantic Salmon | 7000 | FS0602 | Sconser | Mowi Scotland Ltd | More |
| 120 | 11/11/2004 | Atlantic Salmon | 3,000 | FS0413 | Camas Glas | Mowi Scotland Ltd | More |
| 91 | 11/08/2004 | Atlantic Salmon | 10,000 | FS0615 | Arbhair | Mowi Scotland Ltd | More |
| 90 | 10/05/2004 | Atlantic Salmon | 4227 | FS0615 | Arbhair | Mowi Scotland Ltd | More |
| 114 | 01/12/2003 | Rainbow Trout | 1560 | FS0150 | Loch Lochy | Mowi Scotland Ltd | More |
| 88 | 27/04/2003 | Atlantic Salmon | 16, 000 | FS0206 | Loch Ewe Poolewe | Mowi Scotland Ltd | More |
| 89 | 20/03/2003 | Atlantic Salmon | 11, 476 | FS0729 | Aultbea | Mowi Scotland Ltd | More |
| 118 | 20/03/2002 | Rainbow Trout | 2400 | FS0150 | Loch Lochy | Mowi Scotland Ltd | More |
| 113 | 30/03/2001 | Atlantic Salmon | 3000 | FS0240 | Linnhe | Mowi Scotland Ltd | More |
| 147 | 15/06/2000 | Atlantic Salmon | 5776 | FS0016 | Loch Alsh (Sron) | Mowi Scotland Ltd | More |
| 82 | 06/06/1999 | Atlantic Salmon | 20 000 | FS0224 | Portnalong Hatchery | Mowi Scotland Ltd | More |
| 119 | 18/01/1999 | Rainbow Trout | 2000 | FS0150 | Loch Lochy | Mowi Scotland Ltd | More |
| 86 | 09/01/1999 | Atlantic Salmon | 20000 | FS0557 | Lochmaddy | Mowi Scotland Ltd | More |

\$camon \$cotland [reported in August 2022](#):



Don Staniford
@TheGAAIA

...

REVEALED: Mortality rates at feedlots across Scotland are leaping like a lice-infested salmon - with a staggering 55.9% (i.e. more than half of the fish dying) @MowiScotlandLtd @rspcaassured @ASC_aqua Greanem in North Uist salmonscotland.co.uk/reports @ScotlandSalmon @tavishscott



Monthly Mortality Rate: June 2022

| Company | Farm | Monthly mortality (%) | Notes | Cumulative mortality over full production cycle (%) |
|------------------------|-----------------|-----------------------------|------------------------------------|---|
| Mowi Scotland Limited | Greanem | 5.2 (Farm fallowed in Jun.) | Gill health related | 55.9 |
| Scottish Sea Farms Ltd | Foraness | 1.7 (Farm fallowed in Jun.) | | 38.9 |
| Mowi Scotland Limited | Ardnish | 0.1 (Farm fallowed in Jun.) | | 32.9 |
| Bakkafrost Scotland | Portree | 0.0 (Farm fallowed in Jun.) | | 30.6 |
| Mowi Scotland Limited | Ardintoul | 1.8 (Farm fallowed in Jun.) | | 27.1 |
| Mowi Scotland Limited | Loch Alish | 8.8 (Farm fallowed in Jun.) | Gill health related | 22.1 |
| Scottish Sea Farms Ltd | Vidlin | 0.6 (Farm fallowed in Jun.) | | 18.8 |
| Bakkafrost Scotland | Scadabay | 53.9 | Gill health related | In production |
| Bakkafrost Scotland | Reibinish | 11.2 | Gill health related | In production |
| Bakkafrost Scotland | Eughlam | 9.2 | Viral disease, Gill health related | In production |
| Scottish Sea Farms Ltd | Loch Creran (B) | 8.8 | Viral disease | In production |

 Hamish Macdonell and 8 others

7:56 AM · Aug 23, 2022

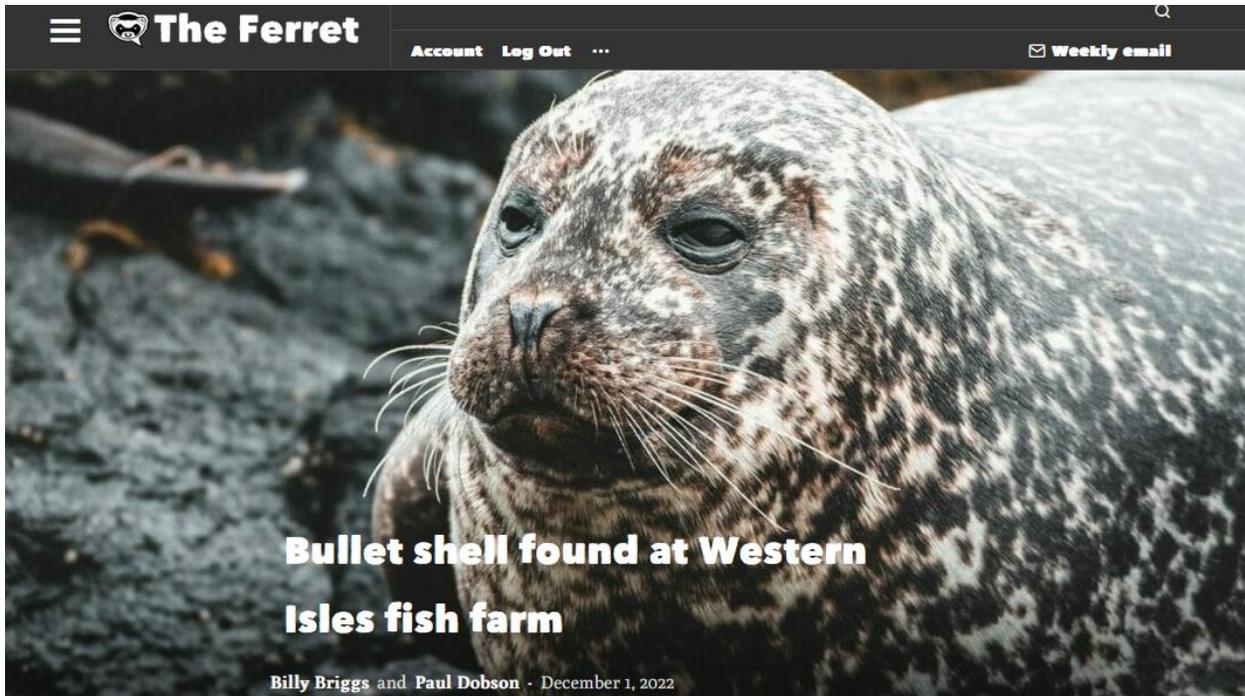
Read more via: [56% Mortality at RSPCA Assured Mowi \(but don't worry, it's certified as "farmed responsibly" by the Aquaculture Stewardship Council\)!](#)

Mortality data [published by the Scottish Environment Protection Agency](#) reveal that Mowi's ASC-certified Greanem (Grey Horse Channel Outer) salmon farm reported [67 tonnes of morts in June 2022](#); [53 tonnes of morts in May 2022](#); [46 tonnes in April 2022](#) and [70 tonnes in March 2022](#).

Mortality data [published by the Scottish Government's Fish Health Inspectorate on 8 March 2023](#) included 13 'Mortality Event Reports' at Mowi's Greanem (Grey Horse Channel Outer) salmon farm totalling 176,895 dead fish during 2022:

| Mortality Event No | Reporting Business | Site Name | Date reported | Mort % | Explained reasons | Mort #s | Action taken by FHI |
|--------------------|--------------------|--------------------------|---------------|--------|--|---------|---|
| MRT03091 | Mowi Scotland | Grey Horse Channel Outer | 09/08/2022 | 1.76 | Complex gill issues | 7858 | not reported, discovered during record check for case 2022-0230, site now fallow. |
| MRT03004 | Mowi Scotland | Grey Horse Channel Outer | 23/06/2022 | 2.67 | Gill infections / Seal predation | 11693 | AGD confirmed on site, freshwater treatments currently in progress. Seals seem to be targeting fish affected by gill issues. FHI to monitor. |
| MRT02964 | Mowi Scotland | Grey horse Channel Outer | 26/05/2022 | 1.08 | Seal Predation | | Buisness corospondat contacted, awaiting response. Mortality levels are reducing and are expected to be below reporting threshold. FHI Visited WB 23/05/2022 |
| MRT02967 | Mowi Scotland | Grey Horse Channel Outer | 25/05/2022 | 1.43 | Complex gill issues, Seal damage | 8705 | Data collected during inspection. Site visited 25/05/2022. Report for 2022-0164 to remind business of agreement in relation to mortality reporting as detailed in A Code of Good Practice for Scottish Finfish Aquaculture. |
| MRT02968 | Mowi Scotland | Grey Horse Channel Outer | 25/05/2022 | 1.04 | Complex gill issues | 6174 | Data collected during inspection. Site visited 25/05/2022. Report for 2022-0164 to remind business of agreement in relation to mortality reporting as detailed in A Code of Good Practice for Scottish Finfish Aquaculture. |
| MRT02969 | Mowi Scotland | Grey Horse Channel Outer | 25/05/2022 | 1.26 | Complex gill issues | 6213 | Data collected during inspection. Site visited 25/05/2022. Report for 2022-0164 to remind business of agreement in relation to mortality reporting as detailed in A Code of Good Practice for Scottish Finfish Aquaculture. |
| MRT02950 | Mowi Scotland | Grey Horse Channel Outer | 10/05/2022 | 1.19 | Gill disease / Treatment Loss (Freshwater) | 5763 | Extended FW treatment conducted in week 18, which exacerbated mortalities. Complex gill disease still prevalent on site. A reduction in mortality has been observed. FHI to consider visit as inspections are planned in the area w/b 23/05/2022. FHI to monitor. - Report updated 9/8/22 by SAE based on records collected for 2022-0230 from 1.01% to 1.19% and 4914 to 5763. |
| MRT02917 | Mowi Scotland | Grey Horse Channel Outer | 14/04/2022 | 1.39 | Gill Infection & Predation | 7065 | FHI to increase monitoring |
| MRT02902 | Mowi Scotland | Grey Horse Channel Outer | 29/03/2022 | 1.04 | Gill Disease / Treatment Loss | 6268 | Salmosan treatment administered in week 11 to reduce sea lice load on site. Complex gill disease continues. Extended FW treatment planned for week 14. FHI to monitor. |
| MRT02891 | Mowi Scotland | Grey Horse Channel Outer | 15/03/2022 | 1.22 | Gill Disease / Yersiniosis | 7551 | FHI to monitor. |
| MRT02887 | Mowi Scotland | Grey Horse channel outer | 09/03/2022 | 1.08 | Gill Disease/ Predator/ Yersiniosis | 7184 | Contacted site manager, antibiotics have been administered which has reduced the mortalities below the reporting threshold. FHI to monitor. |
| MRT02854 | Mowi Scotland | Grey Horse Channel Outer | 16/02/2022 | 1.16 | Complex gill diseases and AGD | 7886 | Mortalities have reduced since H202 treatment. FHI to monitor. |
| MRT02838 | Mowi Scotland | Grey Horse Channel Outer | 04/02/2022 | 1.27 | Treatment losses / Complex gill diseases and AGD | 8864 | increased mortalities the result of peroxide treatment for AGD. FHI to monitor. |

Mowi is suspected of killing seals illegally. The Ferret [reported in December 2022](#):



The Scottish Government has launched an investigation after a bullet shell was found during an inspection of a fish farm off North Uist.

A report by the Scottish Government said that its fish health inspectorate (FHI) found a “loose bullet casing” on one of the walkways between the cages at Mowi’s Groatay fish farm on 26 July 2022.

Inspectors also noted “multiple sightings of seals near the cages” while they were at Groatay, and added the site was “experiencing seal predation”.

A Scottish Government spokesperson confirmed to The Ferret that an investigation — led by Marine Scotland — is underway following the inspection at the site.

Read more via:

[Mowi has not reported a seal killed at Groatay since March 2018 - how can a loose bullet casing survive over 4 years on a stormy salmon pen?!](#)

["Loose Bullet Casing" found at Mowi salmon farm - the £10,000 smoking gun to prosecute for illegal killing of seals?](#)