



Date: Monday, 4 March 2024
Time: 1.00pm
Meeting Room: Waikato Regional Council Chambers
Venue: 160 Ward Street
Hamilton Central

Hauraki Gulf Forum

OPEN MINUTE ITEM ATTACHMENTS

ITEM	TABLE OF CONTENTS	PAGE
4.2	Public Forum - Update from Legasea on mushy fleshed fish	
A.	4 March 2024, Hauraki Gulf Forum, Item 4.2 Public Forum - Update from Legasea on mushy fleshed fish - presentation	3
7	Constituent Party Updates	
A.	4 March 2024, Hauraki Gulf Forum, Item 7 - Constituent Party Updates - updated Attachment F	9
B.	4 March 2024, Hauraki Gulf Forum, Item 7 - Constituent Party Updates - presentation from Fisheries NZ	15
C.	4 March 2024, Hauraki Gulf Forum, Item 7 - Constituent Party Updates - presentation from Biosecurity New Zealand	23
D.	4 March 2024, Hauraki Gulf Forum, Item 7 - Constituent Party Updates - presentation from Auckland Council	33
8	Supporting the takutai moana coastal and marine strategic priority	
A.	4 March 2024, Hauraki Gulf Forum, Item - Supporting the takutai moana coastal and marine strategic priority - presentation	45
4.1	Public Forum - Seabird smart fishing – review of summer campaign	
A.	4 March 2024, Hauraki Gulf Forum, Item 4.1 - Public Forum - Seabird smart fishing - review of summer campaign - presentation	55
10	Retreating from the tide: integrating ecosystem improvements into a flood scheme	
A.	4 March 2024, Hauraki Gulf Forum, Item 10 - Retreating from the tide: integrating ecosystem improvements into a flood scheme - presentation	63

MUSHY FLESH FISH



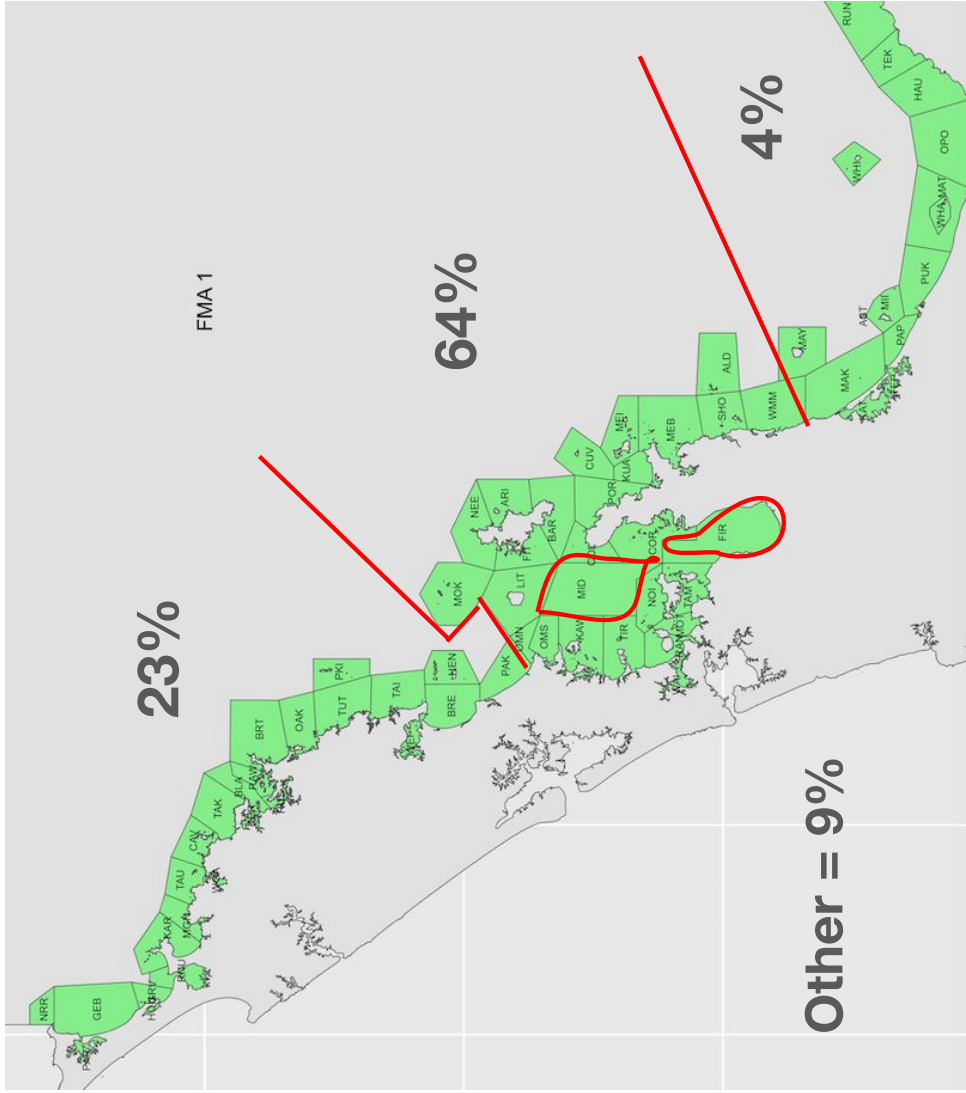
Current Observations

1. There is still a high proportion of catch affected with mushy flesh. coming through the Kai Ika Project
2. Fishers can observe symptoms externally which can lead to high grading.
3. Symptoms we have continued to see such as muscular atrophy and concave around eyes are attributed to diminished nutrition.
4. Symptoms are showing in multiple species. Snapper, kahawai, kingfish, gurnard, trevally, blue cod.



Rikki Taylor, NIWA

bit.ly/MushyFleshFish



LegaSea Survey

1. First iteration launched in Oct 2023
2. **Goal:** to collate information regarding where affected fish are and gather a time series to observe any change.
3. **October results:**
 - a. 228 responses. 75% yes.
 - b. MID (26) and FIR (18)
 - c. Other = Taranaki, Kaipara, west Auckland
4. Feb 2024 - 347 responses total
 - a. More from further south



Other Research

1. [Animal Health Authority report - 2022](#)
2. **NIWA 2023** - collected catch information from commercial and recreational fishers in the inner Hauraki Gulf.
3. **NIWA, Auckland Uni, LegaSea, Kai Ika, MRF funded** - PhD study. 4 years.
 - a. What is causing chronic malnutrition?
4. **Josh, LegaSea Science Team** - has been collecting gut cavity samples, recording rec catch data and taking note of gonad stages.
 - a. Rec catch data coming from Kai Ika
 - b. Mass and contents of stomach
 - c. Recording proportion of catch



Moana, New Zealand

Additional - *Benedenia sekki*

1. This has been seen more frequently over previous months. Reports from charter vessels, comments on Facebook community pages.
2. Naturally occurs on snapper.
3. Outbreaks indicate an increase in insusceptibility of the fish.
4. High infestations may occur due to poor nutrition/conditions, or changes to the environment which eggs of the parasite reside.
5. Bruising occurs as a result of fish rubbing up against rocks



