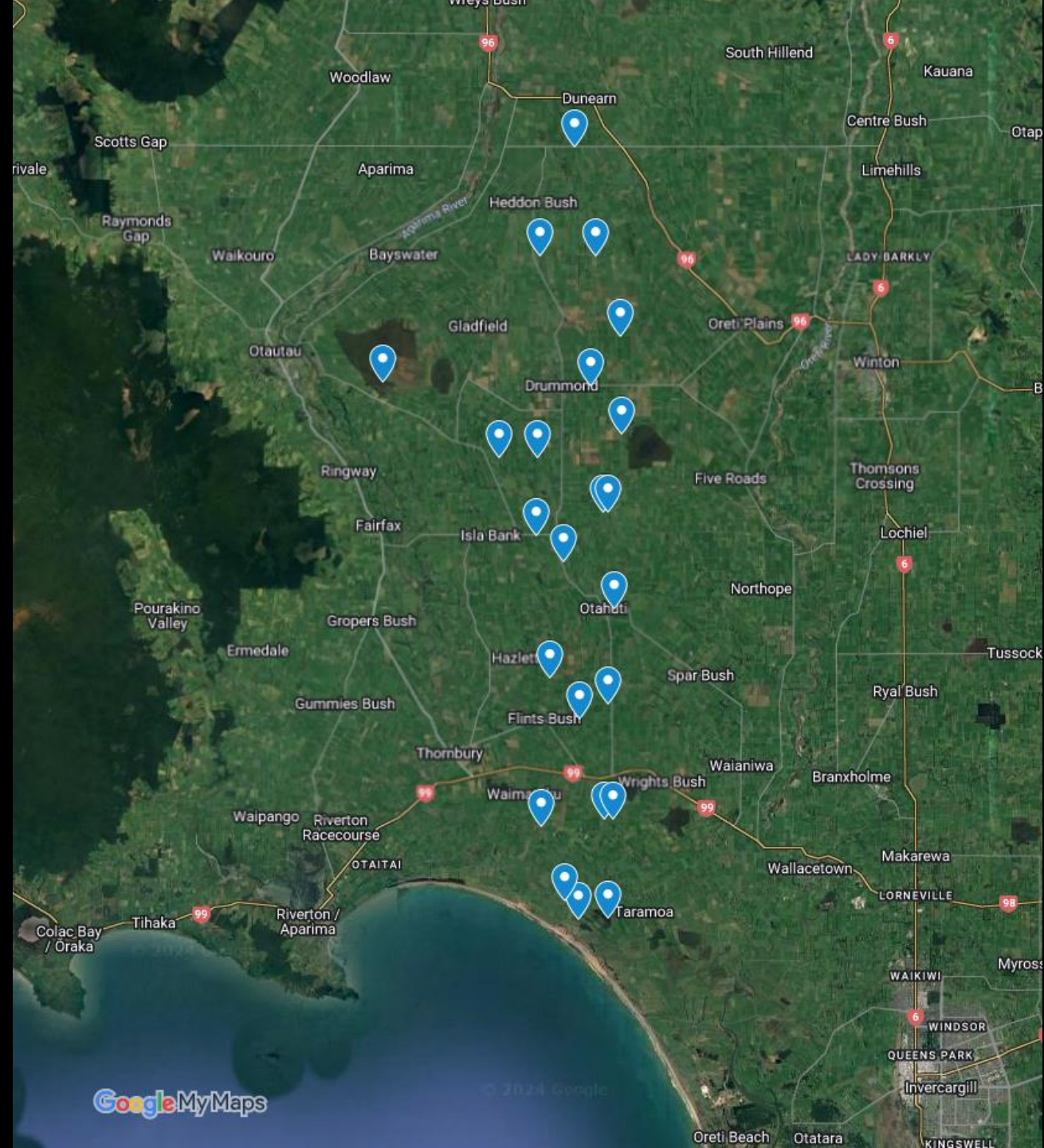


Ngā Awa Waimatuku

Results of eDNA sampling

[Link to Google map](#)





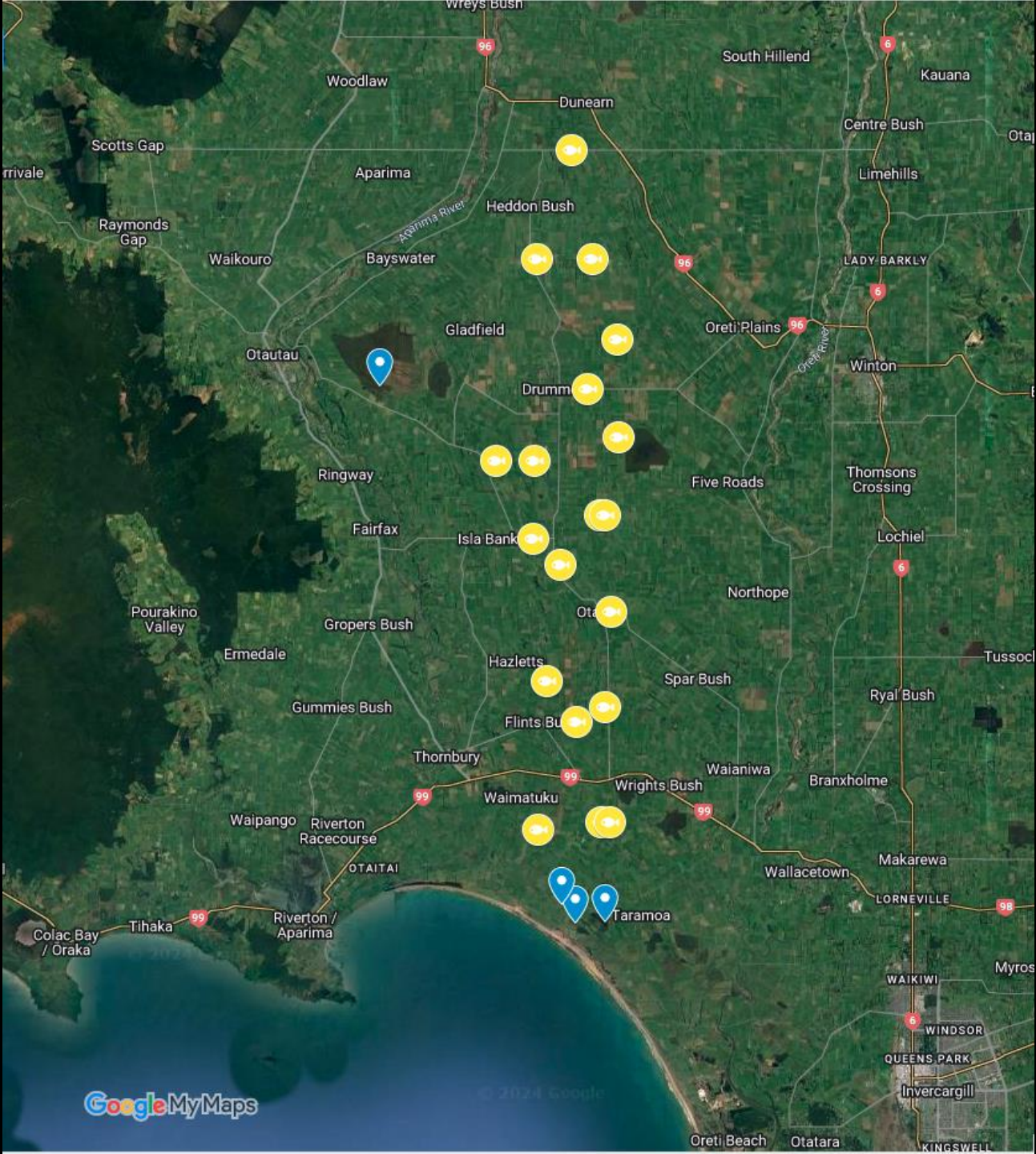
# Gollum galaxias

- non migratory



Photo: Rod Morris

Gollum galaxias  
✓ juvenile fish seen and  
eDNA detected at sites  
throughout catchment





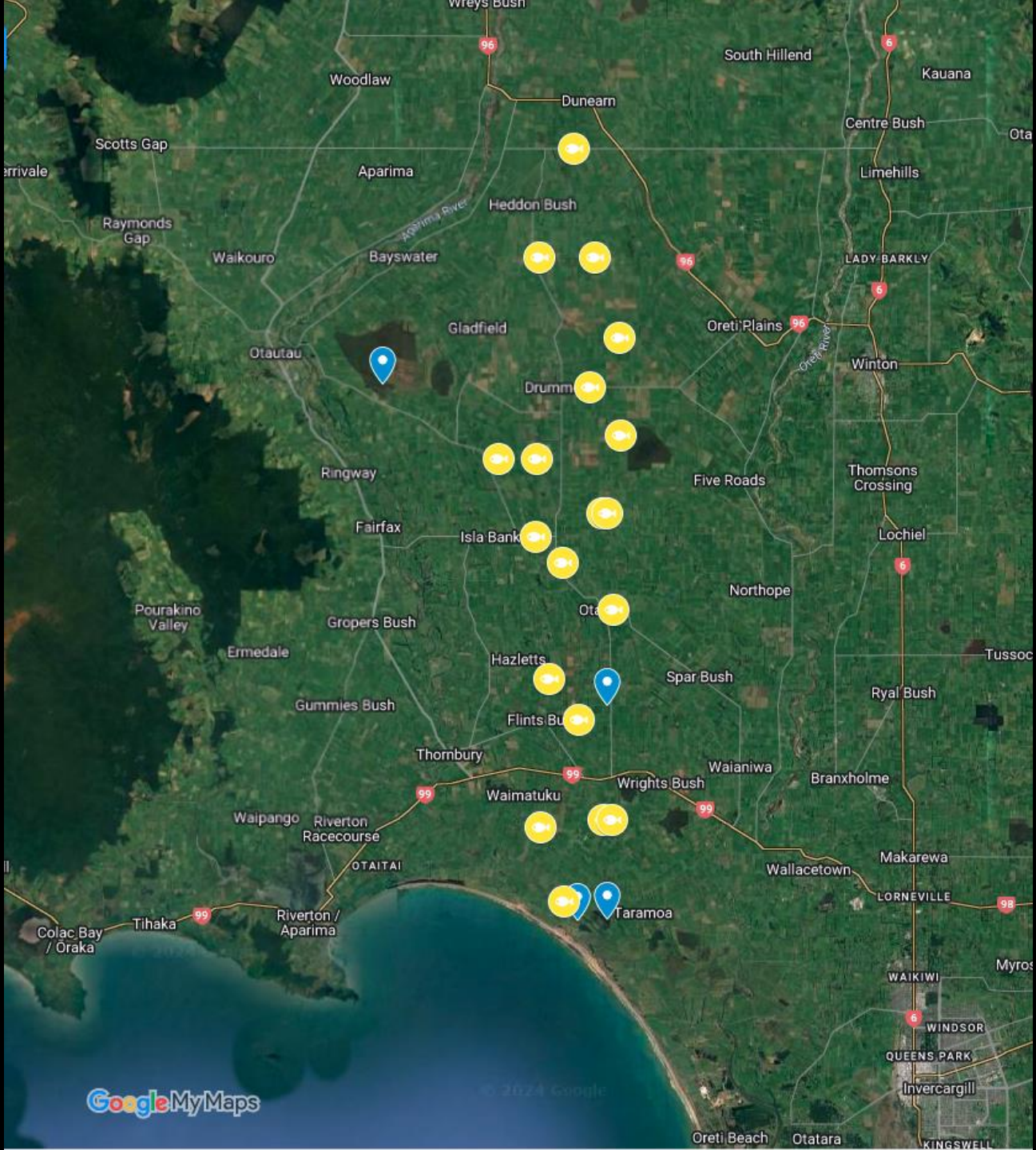
# Upland bully

- non migratory



Photo: DOC

Upland bully  
✓ eDNA at most sites



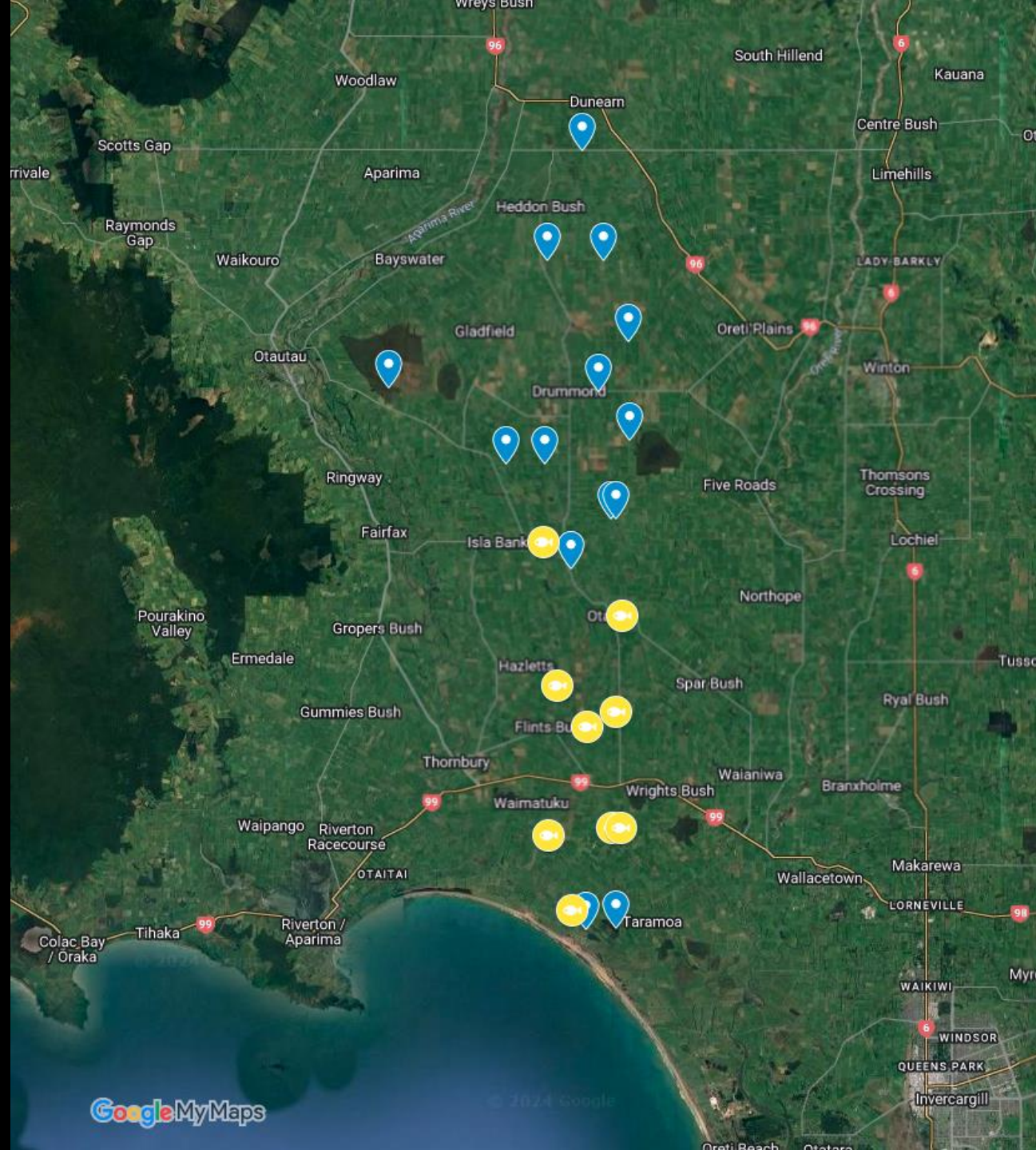


# Īnanga -migratory



Photo: DOC

Īnanga  
✓ eDNA detected in  
lower catchment only.  
Why not further inland  
too?



**Follow-up  
questions:**

**Q. Are there fish  
barriers upstream  
of Fraser Rd?**  
**Q. Is there an  
absence  
of suitable habitat  
upstream?**



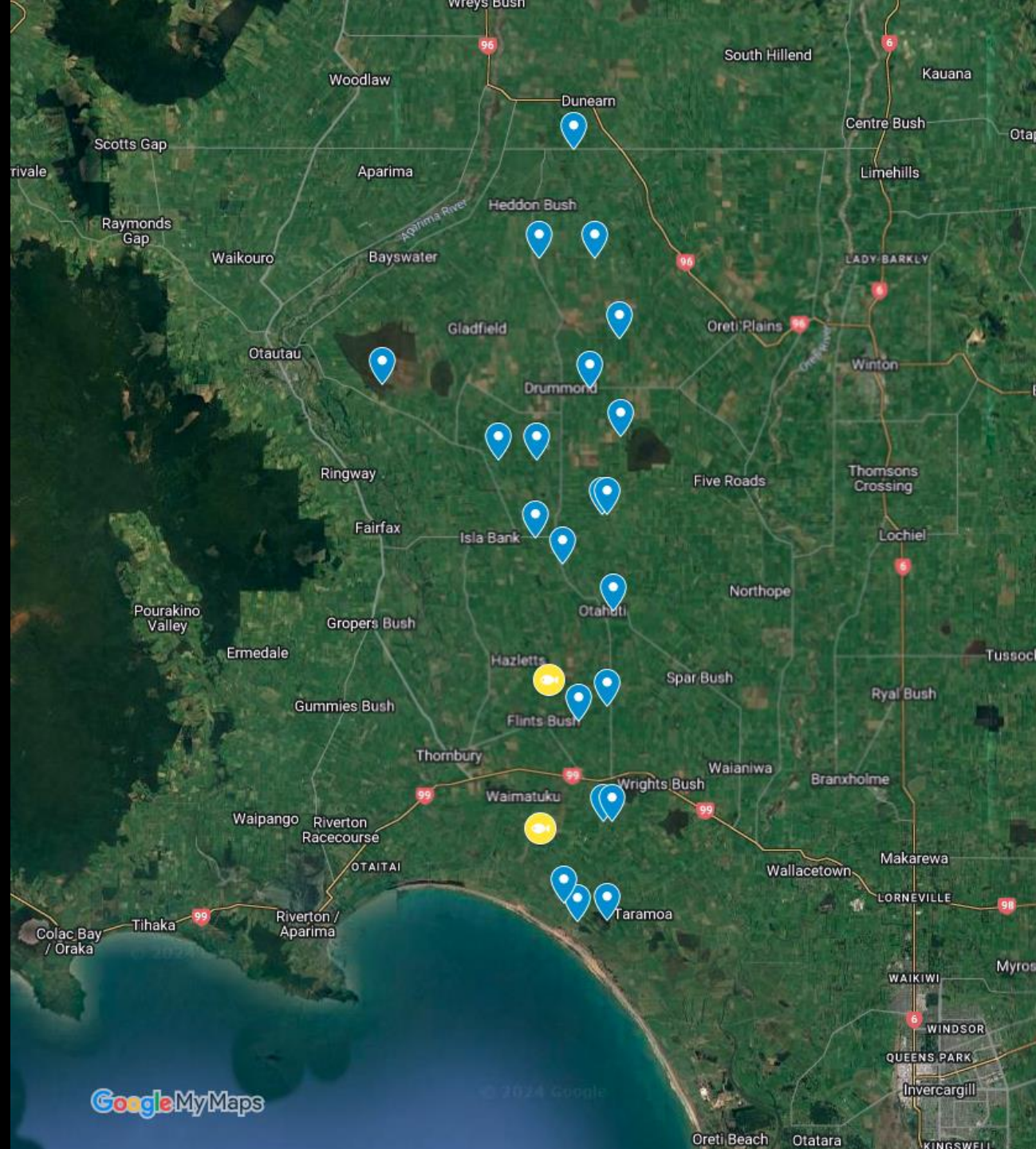
# Giant kōkopu -migratory



Photo: Angus McIntosh

## Giant kōkopu

- ✓ eDNA in Taunamau Creek upstream site, plus tentative result at Ross Rd, but not in Waimatuku - why not?



## Follow-up questions:

- Q. Do juvenile fish enter the Waimatuku River at the river mouth?
- Q. Are there fish barriers upstream?
- Q. Are predators eating them?
- Q. Is there an absence of suitable habitat in the Waimatuku River?

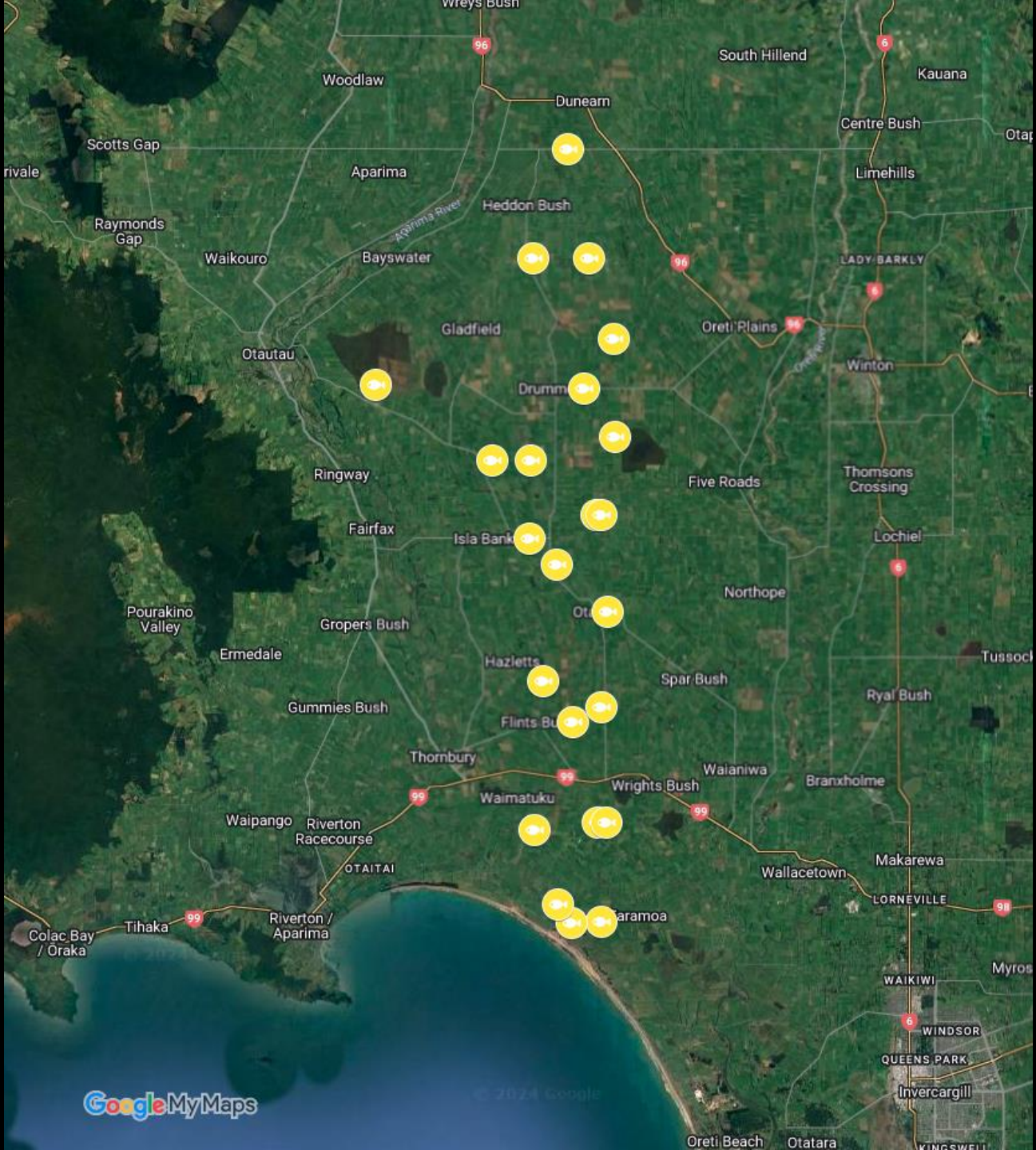


# Longfin eel -migratory



Photo: DOC

Longfin & shortfin eel  
✓ eDNA detected at all /  
most sites



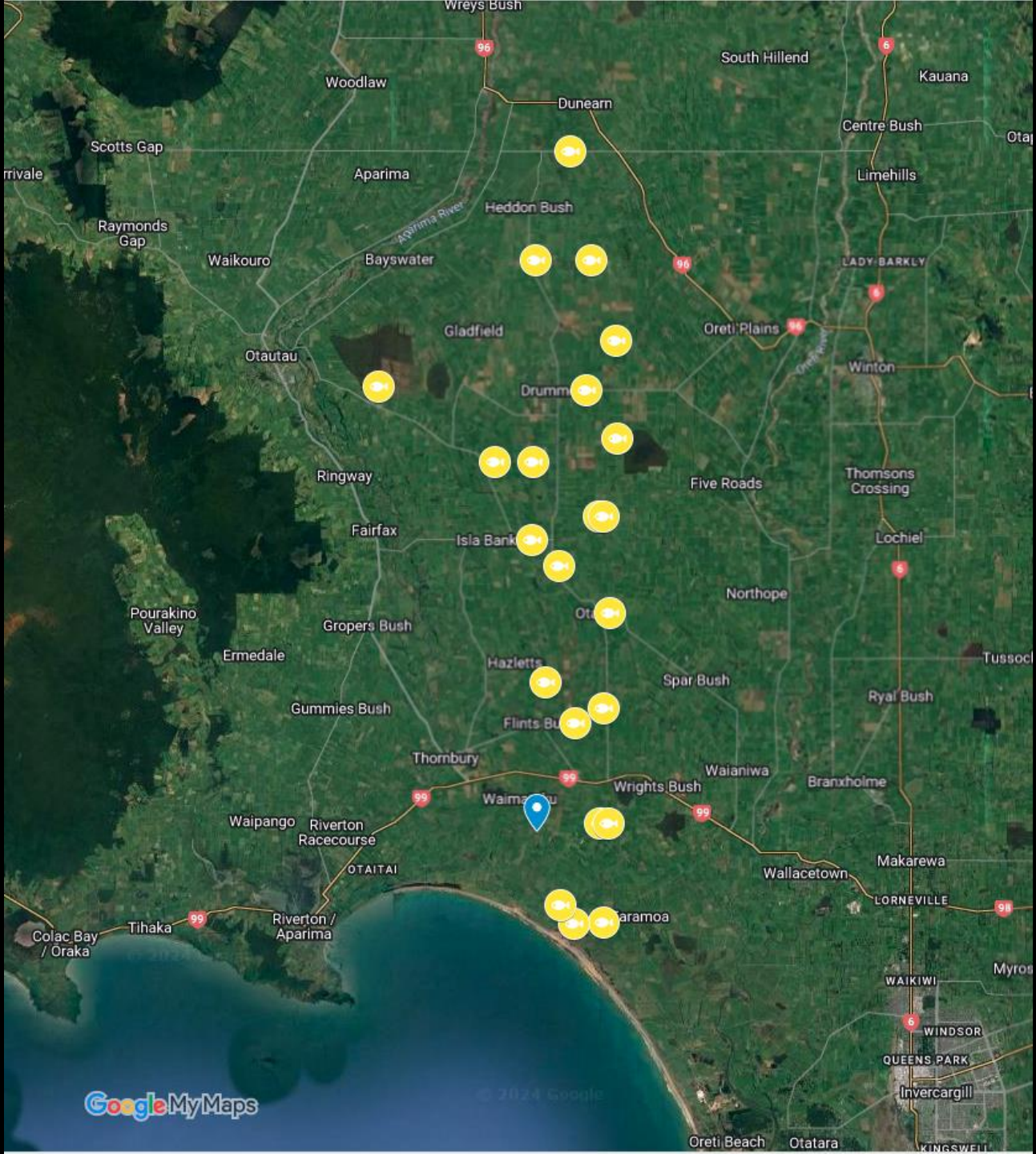


# Shortfin eel -migratory



Photo: DOC

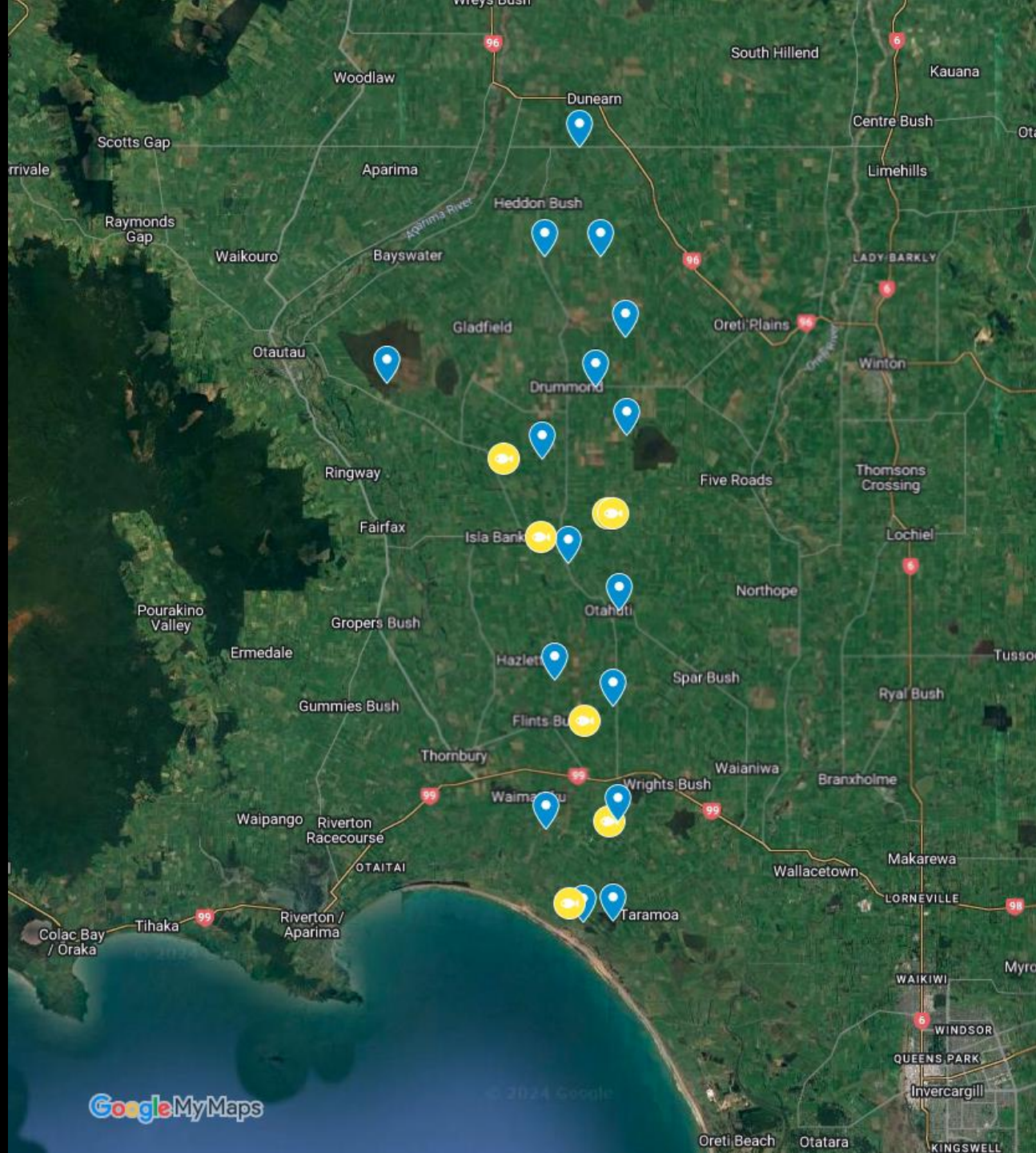
Longfin & shortfin eel  
✓ eDNA detected at all /  
most sites





Kanakana

- ✓ eDNA detected at site 16, plus tentative results at other sites - recommend follow up



**Q. Have another look at the sites where we got positive and tentative results.**

**Q. Are lamprey spawning in the river?**



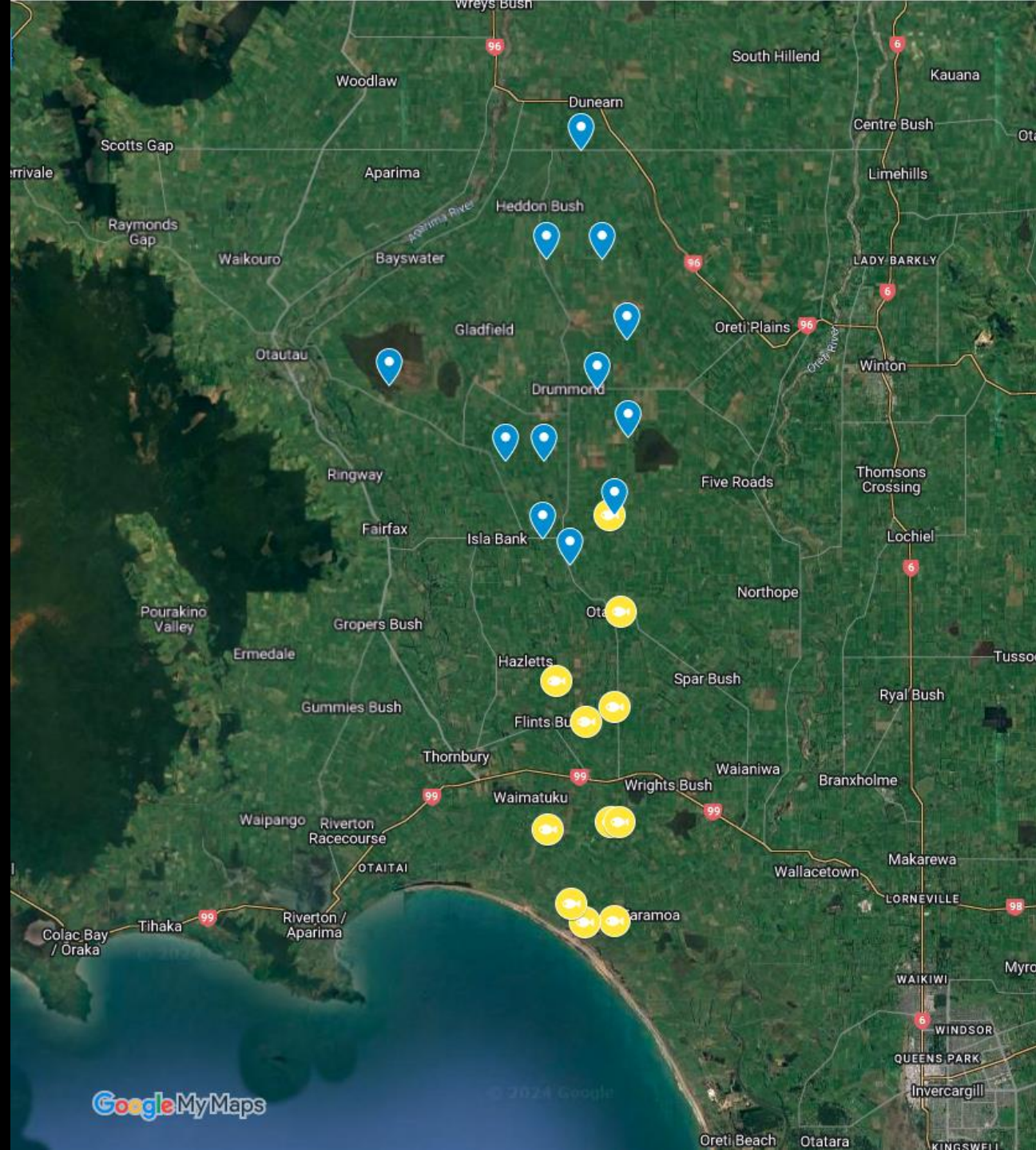
Common bully  
-migratory  
-they are not good  
climbers



Photo: DOC

Common bully

✓ eDNA at all sites in  
lower catchment and  
lagoons - why didn't we  
detect them further  
inland too?



**Follow-up questions:**

**Q. Are there fish  
barriers upstream of  
Fraser Rd?**

**Q. Are the ones in  
the lagoons  
landlocked or can  
they migrate in and  
out of the lagoons?**



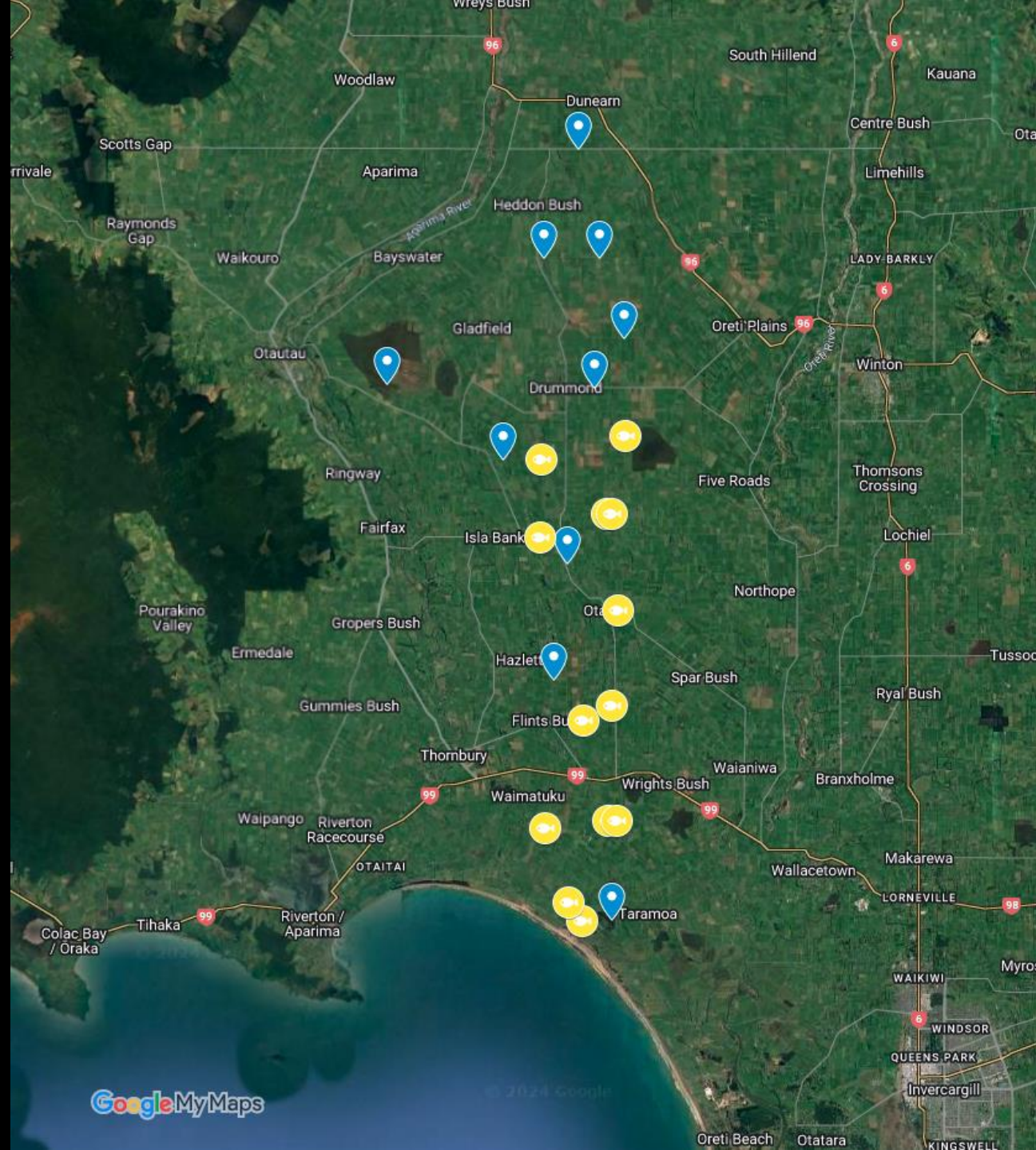
Redfin bully  
-migratory  
-climbers



Photo: Angus McIntosh

Redfin bully

- ✓ eDNA at some sites and in one lagoon





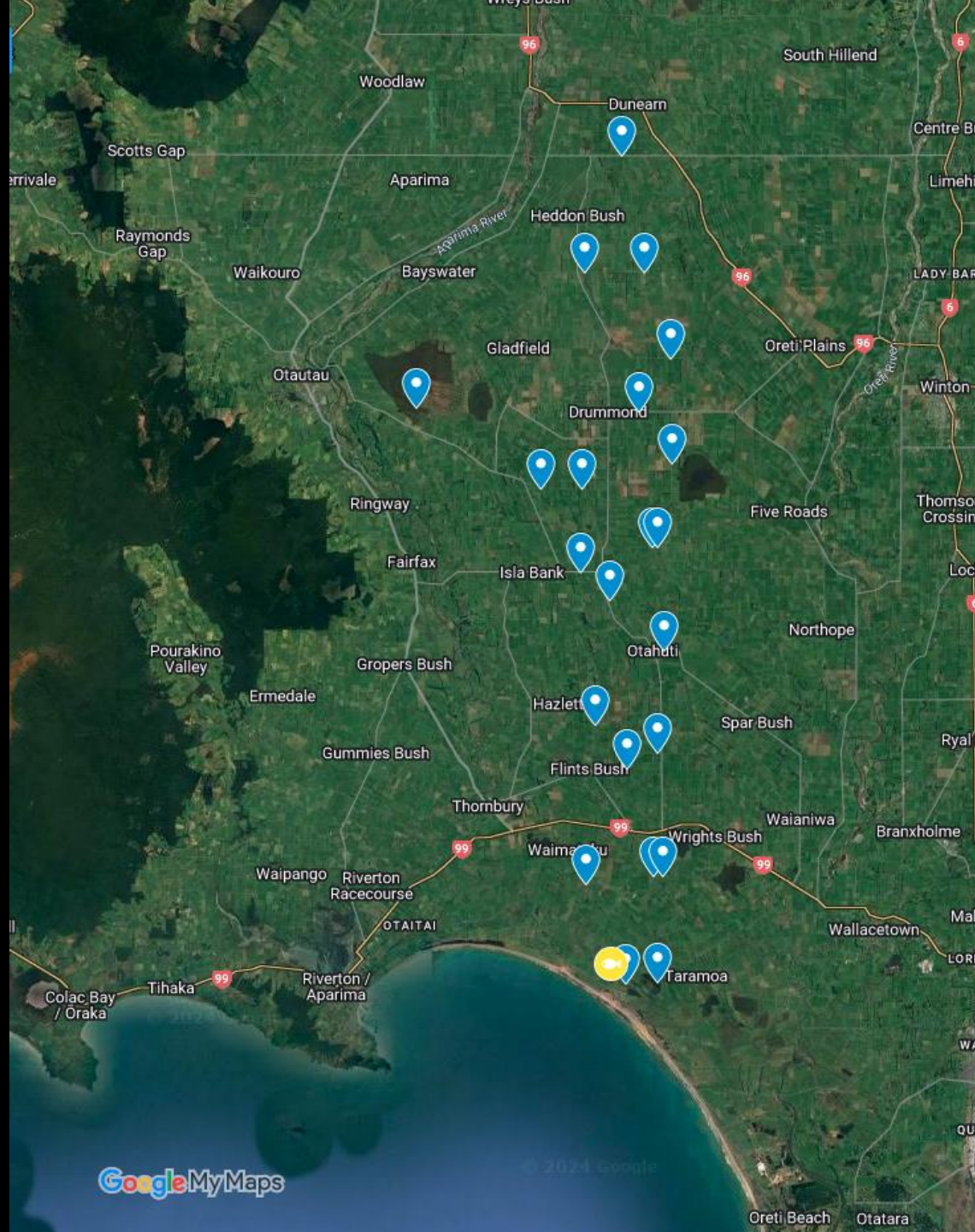
# Torrentfish -migratory



Photo: Angus McIntosh

Torrentfish (surprising!)

✓ eDNA detected at 1 site  
- doesn't seem like  
suitable habitat





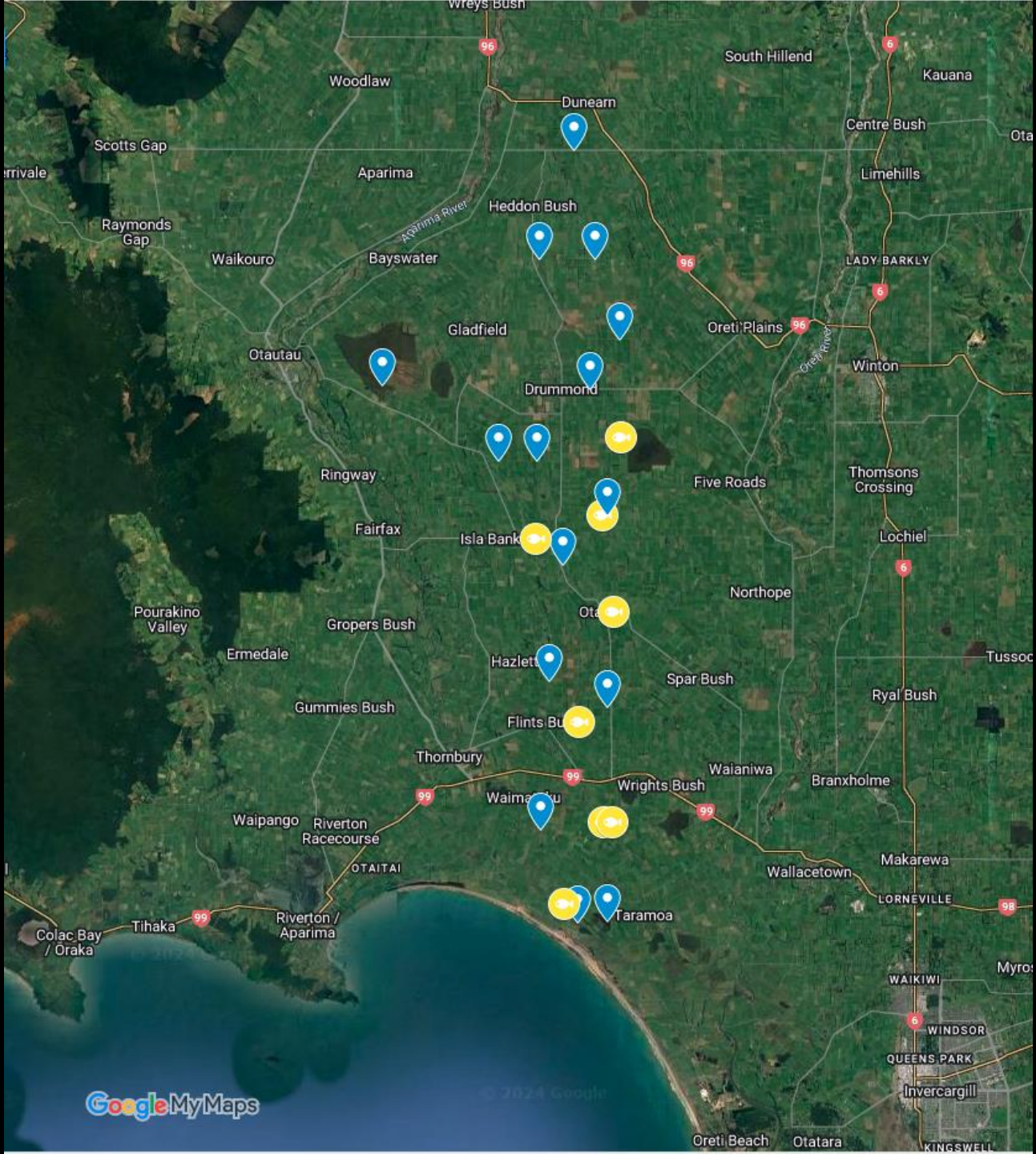
# Flounder



Photo: DOC

## Flounder

✓ eDNA detected at some sites in lower catchment



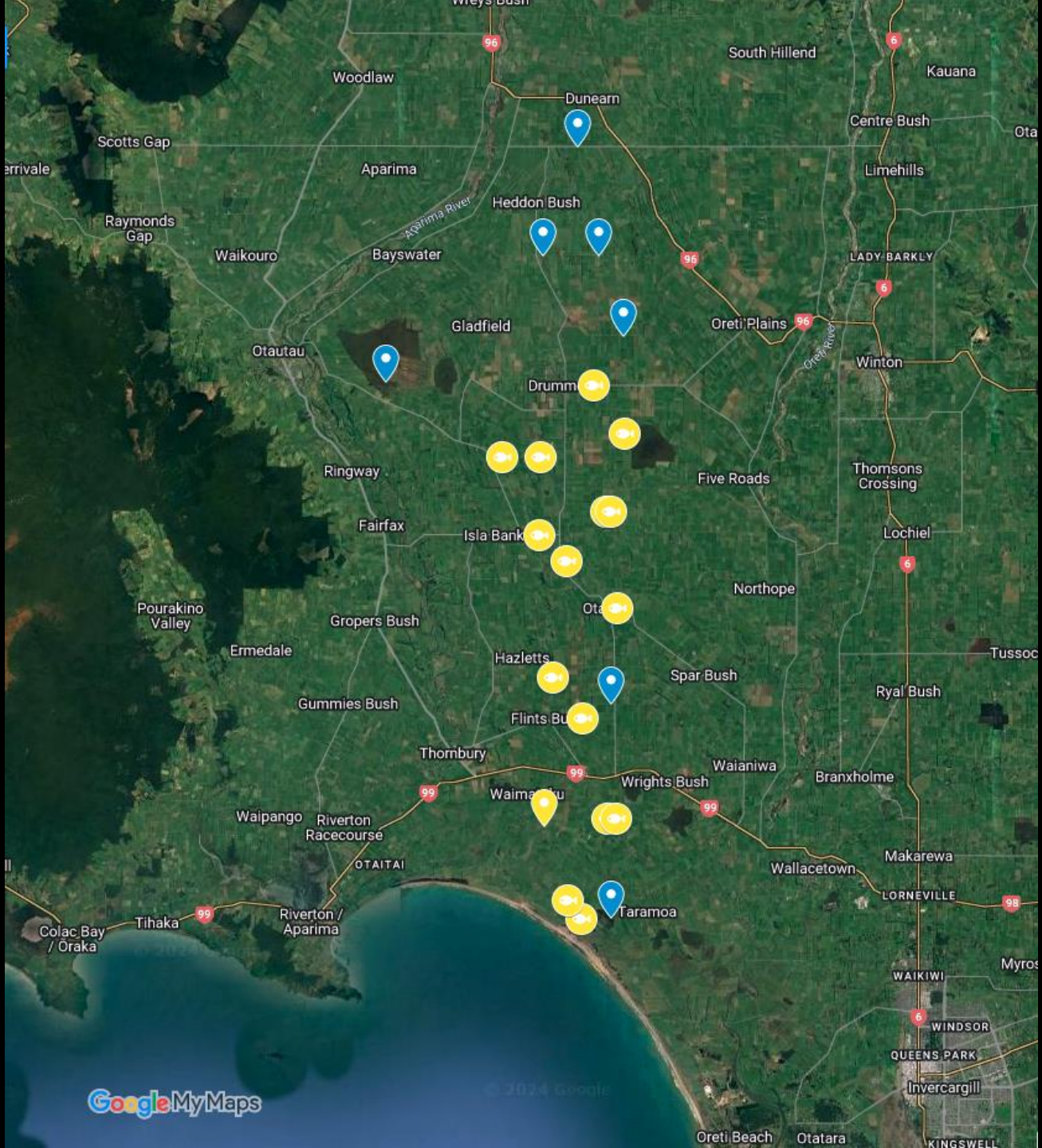


# Trout



Photo: DOC

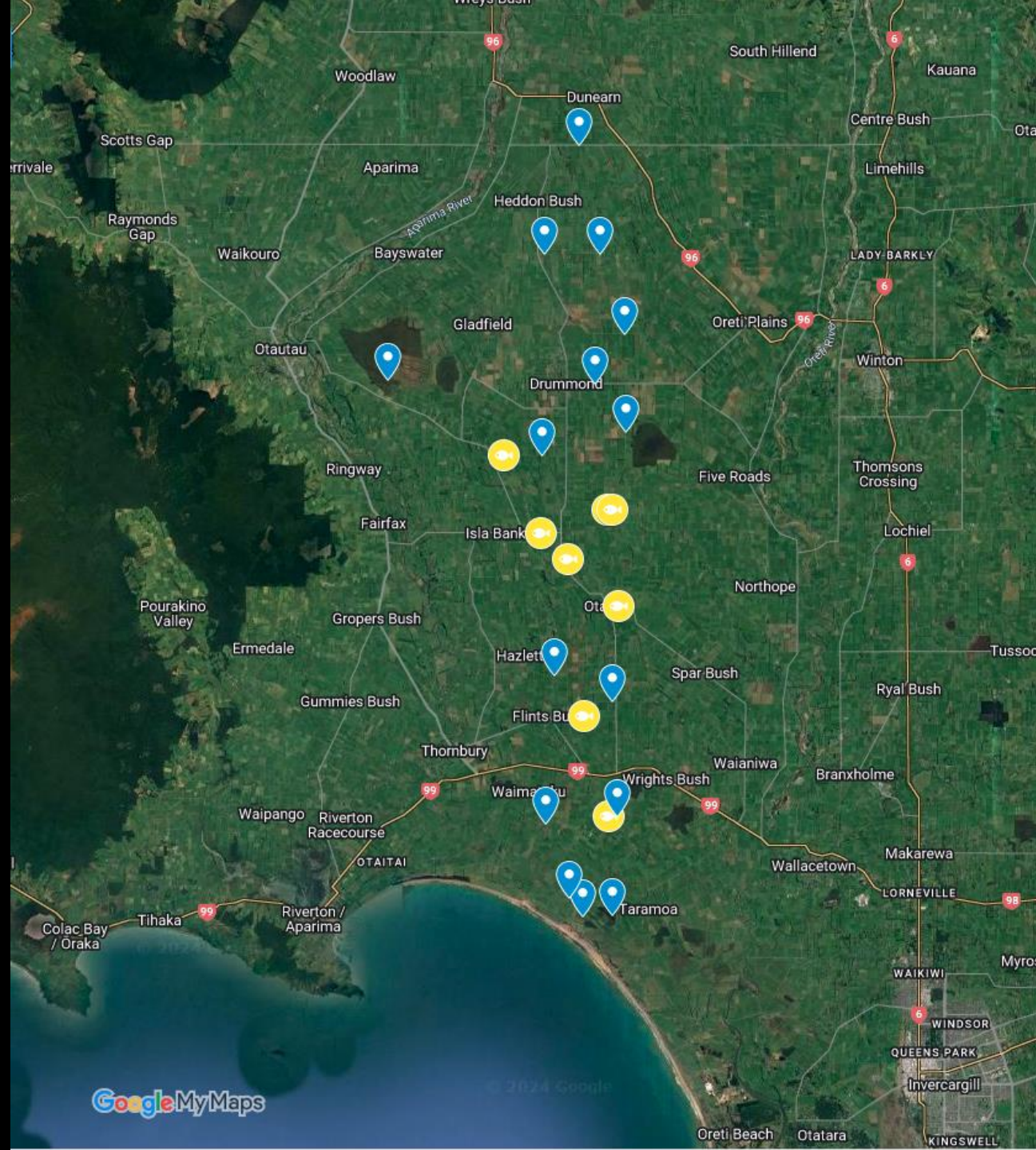
Trout  
✓ adult fish seen at some sites and eDNA detected at most sites





## A close-up photograph of a person's hand holding a large, dark-colored crayfish. The crayfish has long antennae and prominent claws. The background is a blurred natural setting, likely a stream or river.

Kōura



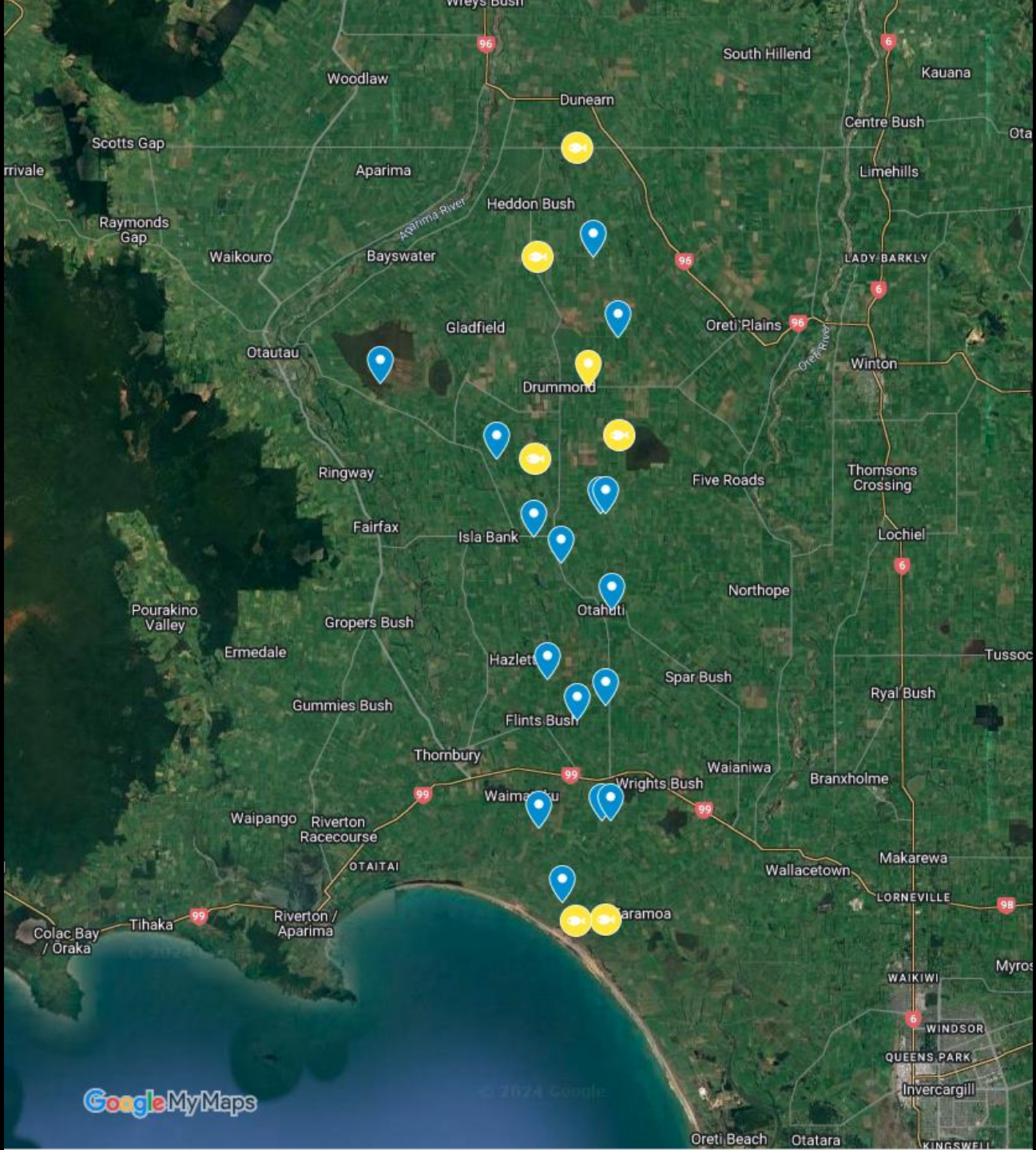


# New Zealand freshwater clam



Photo: mollusca.co.nz

NZ freshwater clam





We did not detect eDNA from southern flathead galaxias (non-migratory), banded kōkopu (migratory) or kākahi.

We also did not detect eDNA from these species:



Photo: DOC

Stoneflies



Photo: nzfishing.com

Dobsonflies



Photo: Landcare Research

Leeches