

Second Tilapia monitoring survey 3-4 December 2008.

Visual survey by ACTFR, QDPI&F and South Cape York Catchment Group revealed that Tilapia are breeding as far up stream as the old causeway at Leggett's. Results suggest that electrofishing is not detecting this species as this was the second targeted survey where electrofishing did not detect tilapia, whereas juvenile tilapia were detected in or near all sites. Although tilapia were not detected in or upstream of Leggett's. All tilapia spotted were of a size class that would have been born this year suggesting that adults are present in all these areas. I have asked David Cass to gill net at Leggett's and Rudderford's to attempt to catch adults.

1. Leggett's 15.24.44.7 S 145.03.23.5 E

Boat mounted electrofishing was conducted using high voltage output S-R 2.5GPP. The output was 800 volts, 3.5 amps, 25% duty range at 120 pulses per second. Total fishing time was 40 minutes with a total of 1313 seconds on time. Fishing was conducted as a single continuous shot following the whole littoral edge of the pool from the causeway to the upstream rock bar. A total of seven species was recorded (Table 1)

Table 1. Fish species recorded at Leggett's 3 December

Common name	Specific name
Eastern rainbowfish	<i>Melanotaenia spl. splendida</i>
Bony bream	<i>Nematalosa erebi</i>
Marbled eel	<i>Anguilla reinhardtii</i>
Black catfish	<i>Neosilurus ater</i>
Jungle perch	<i>Kuhlia rupestris</i>
Roman-nosed goby	<i>Awaous acritosus</i>
Spangled perch	<i>Leiopotherapon unicolor</i>
Mouth almighty	<i>Glossamia aprion</i>
Sailfin glassfish	<i>Ambassis agrammus</i>
Greenback gauvina	<i>Bunaka gyrindoides</i>

2. Rudderford's 15.42833 S 145.09889 E

Boat mounted electrofishing was conducted using high voltage output. The output was 800 volts, 5 amps, 25% duty range at 120 pulses per second. Total fishing time was 1 hour and 10 minutes, 2744 seconds on time. Fishing was conducted as a single continuous shot following the whole littoral edge of the pool. A total of nine species was recorded (Table 2).

Table 2. Fish species recorded at Rudderford's 3 December

Common name	Specific name
Bony bream	<i>Nematalosa erebi</i>
Eastern rainbowfish	<i>Melanotaenia spl. splendida</i>
Marbled eel	<i>Anguilla reinhardtii</i>
Mouth almighty	<i>Glossamia aprion</i>
Jungle perch	<i>Kuhlia rupestris</i>
Spangled perch	<i>Leiopotherapon unicolor</i>
Barramundi	<i>Lates calcarifer</i>
Black catfish	<i>Neosilurus ater</i>
Hyrtl's tandan	<i>Neosilurus hyrtlii</i>
Empire gudgeon	<i>Hypseleotris compressa</i>
Sailfin glassfish	<i>Ambassis agrammus</i>
Snakehead gudgeon	<i>Giurus margaritacea</i>
Roman-nosed goby	<i>Awaous acritosus</i>
Greenback gauvina	<i>Bunaka gyrindoides</i>

3. Redlands

Boat mounted electrofishing was conducted using high voltage output. The output was 400V, 6 A, 120 pulses per second at 25% duty range. A single continuous shot was conducted along the whole of the littoral area for the pool. A total time of 28 minutes fishing with 500 seconds on time covering 300m of the pool. Fish species recorded are in table 3.

Table 3 Fish species recorded at Redlands

Common name	Specific name
Bony bream	<i>Nematalosa erebi</i>
Eastern rainbowfish	<i>Melanotaenia spl. splendida</i>
Marbled eel	<i>Anguilla reinhardtii</i>
Mouth almighty	<i>Glossamia aprion</i>
Jungle perch	<i>Kuhlia rupestris</i>
Mangrove jack	<i>Lutjanus argentimaculatus</i>
Barramundi	<i>Lates calcarifer</i>
Black catfish	<i>Neosilurus ater</i>
Silver biddy	<i>Gerres filamentosus</i>
Empire gudgeon	<i>Hypseleotris compressa</i>
Flagtailed glassfish	<i>Ambassis miops</i>
Seven-spot archerfish	<i>Toxotes chatareus</i>
Roman-nosed goby	<i>Awaous acritosus</i>
Silver Grunter	<i>Mesopristes argenteus</i>
Tarpon	<i>Megalops cyprinoides</i>
False celebes goby	<i>Glossogobius sp. 1</i>
Freshwater moray	<i>Gymnothorax polyuranodon</i>
Greenback gauvina	<i>Bunaka gyrindoides</i>

4. South Endeavour Homestead 15.42.13.9 S 145.05.96.3 E

Boat mounted electrofishing was conducted using high voltage output. The output was 800V, 4 A, 120 pulses per second at 25% duty range. A single continuous shot was conducted along the whole of the littoral area for the pool. A total time of 28 minutes fishing with 800 seconds on time covering 500m of the pool. Fish species recorded are in table 4

Table 4. Fish species recorded at South Endeavour

Common name	Specific name
Eastern rainbowfish	<i>Melanotaenia spl. splendida</i>
Marbled eel	<i>Anguilla reinhardtii</i>
Bony bream	<i>Nematalosa erebi</i>
Hyrtil's tandan	<i>Neosilurus hyrtlii</i>
Roman nosed goby	<i>Awaous acritosus</i>
Greenback gauvina	<i>Bunaka gyrindoides</i>
Spangled perch	<i>Leiopotherapon unicolor</i>
Sailfin glassfish	<i>Ambassis agrammus</i>

5. Downstream of Jensen's Crossing Visual assessment

Table 5. Fish species recorded Downstream of Jensen's Crossing

Common name	Specific name
Eastern rainbowfish	<i>Melanotaenia spl. splendida</i>
Trapon	
Bony bream	<i>Nematalosa erebi</i>
Feather bream	
Roman nosed goby	<i>Awaous acritosus</i>
Spangled perch	<i>Leiopotherapon unicolor</i>
Sailfin glassfish	<i>Ambassis agrammus</i>