State of California Department of Fish and Wildlife

Memorandum

Date: March 14, 2023

To: Leslie Alber

Senior Environmental Scientist; Supervisor

Department of Fish and Wildlife

North Central Region

1701 Nimbus Road, Suite A Rancho Cordova, CA 95670

Cc: CDFW North Central Region Fish Files

From: Mitch Lockhart; Environmental Scientist

Luc Mitchell; Scientific Aide

Clyde "Cian" Hettrick; Scientific Aide Department of Fish and Wildlife 1701 Nimbus Road, Suite A Rancho Cordova, CA 95670

Subject: Pre-Stocking Evaluation at Island Lake, Nevada County

Island Lake (Lake ID 12782), Nevada County, is a trail-accessible destination located north of Yuba Gap within the Grouse Ridge Non-Motorized Area on the Tahoe National Forest at an elevation of 6,827 feet above sea level (**Figures 1, 2, & 3**). The lake level at Island Lake was enhanced by a stream flow maintenance dam managed by Nevada Irrigation District (NID) and is part of the Yuba-Bear Hydroelectric Project (FERC# 2266). The dam has since fallen into disrepair and no longer controls the water level of Island Lake.

The California Department of Fish and Wildlife (CDFW) has planted Rainbow Trout (*Oncorhynchus mykiss*; RT) at Island Lake since 1934 and most recently in 2018 (**Table 1**).

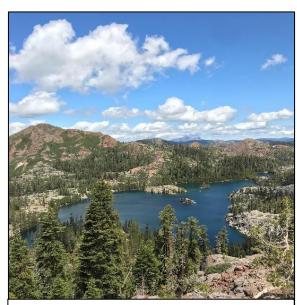


Figure 1. Overview photograph of Island Lake, Nevada County, facing north (CDFW, June 16, 2020).

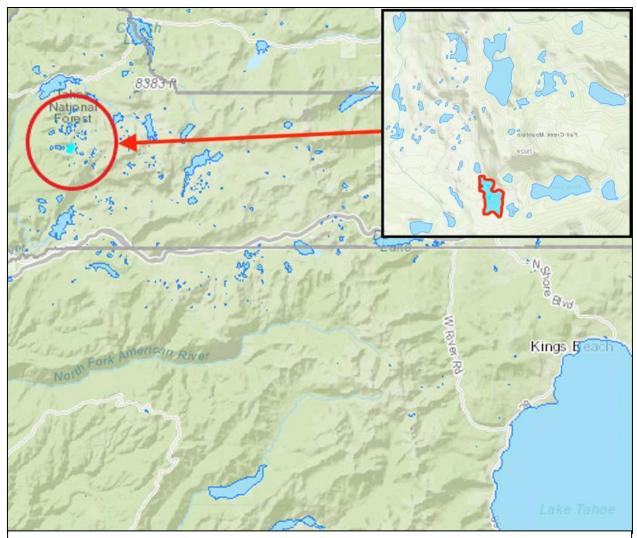


Figure 2. A regional map that displays the Grouse Ridge Non-Motorized Area, Nevada County, denoted by a red circle, in relation to Lake Tahoe in the lower right. The inset map displays Island Lake outlined in red (CDFW BIOS Viewer, retrieved.



Figure 3. Panoramic overview photograph of Island Lake, Nevada County, looking west (CDFW, June 17, 2020).

Table 1. CDFW Stocking History for Island Lake, Nevada County, 2006-2018.

Year	Species	Number of Fish Planted	Size
2006	RT	7,500	Fingerling
2007	RT	7,500	Fingerling
2009	RT	8,000	Fingerling
2010	RT	9,768	Fingerling
2011	RT	11,000	Fingerling
2012	RT	10,000	Fingerling
2013	RT	10,000	Fingerling
2017	RT	7,500	Fingerling
2018	RT	10,000	Fingerling

To assess whether continued plants of RT are justified at Island Lake, three CDFW Scientific Aids surveyed the lake on June 17, 2020, to determine the current status of fish and herpetofauna populations. The assessment included a gill net survey and a visual encounter survey (VES).

Three Scientific Aides set two sinking monofilament gill nets on the morning of June 17,2020, and pulled them the afternoon of the same day for a total survey effort of 12 ¾ hours. They captured 24 Brook Trout (*Salvelinus fontinalis*; BK) and 48 Brown Bullhead (*Ameiurus nebulosus*; BB) (**Table 2**; **Figures 4** & **5**).

A Scientific Aide conducted a VES of Island Lake on the morning of June 17, 2020, to document the presence of diurnal herpetofauna, specifically the federally endangered Sierra Nevada Yellow-legged Frog (*Rana sierrae*; SNYLF). The VES began at 9:37 am

Table 2. Length and Weight of Brook Trout Captured at Island Lake, Nevada County, on June 17, 2020.

Species	Length (mm)	Weight (g)	Species	Length (mm)	Weight (g)
BK	310	250	BK	235	112
BK	298	230	BK	230	128
BK	286	196	BK	184	50
BK	280	190	BK	171	48
BK	271	170	BK	170	42
BK	267	170	BK	169	41
BK	265	164	BK	157	46
BK	255	154	BK	150	31
BK	249	121	BK	147	28
BK	248	140	BK	144	34
BK	240	134	BK	141	26
BK	236	118	BK	140	26

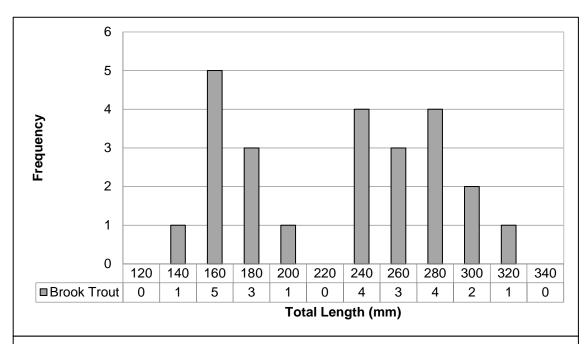


Figure 4. Fish length frequency of Brook Trout captured by gill net at Island Lake, Nevada County, on June 17, 2020. The *x*-axis displays fish total length divided into 20 mm size intervals and labeled by the upper limit of the interval's range. For example, the largest fish caught was a BK with a total length between 301 and 320 mm. The *y*-axis displays the number of fish captured within a given length interval.



Figure 5.
Photograph of
Brook Trout
captured by gill net
at Island Lake,
Nevada County on
June 17, 2020.
Fish captured in gill
net "A" are pictured
on the left, and gill
net "B" the right
(CDFW, June 17,
2020).

and concluded at 10:42 am for a total survey effort of 48 minutes. The surveyor did not observe herpetofauna during the VES.

The results from the gill net survey demonstrate that Island Lake supports a healthy, self-sustaining BK population. Some of the female BK were reabsorbing the previous season's eggs, which may be evidence that spawning opportunities are limited under certain conditions.

CDFW last planted Island Lake in 2018 and 2017 with RT fingerlings. However, we did not capture adult RT during this 2020 survey. This may indicate RT fingerlings do not survive to adulthood at Island Lake. However, we did not sample the deepest portion of the lake and the results are somewhat inconclusive.

We recommend CDFW stop plants of fingerling RT at Island Lake and monitor for RT presence and BK growth and catch rate. We recommend future monitoring efforts include hook-and-line surveys from float tube and shore using bait and lures. We recommend that several years pass between gill net surveys to allow the BK population to recover from sampling events. If future monitoring efforts demonstrate a declining BK population, low BK catch rates, or survival of RT fingerlings to adulthood, we recommend CDFW consider planting Island Lake with fingerling RT again.

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Figure 6: Data Sheet with gill net data from a survey conducted June 17, 2020, at Island Lake, Nevada County. This net is labeled Island Lake A and was set in the SW stretch of Island Lake.

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Figure 7: Data Sheet with gill net data from a survey conducted June 17, 2020, at Island Lake, Nevada County. This net is labeled Island Lake B and was set in the NW cove of Island Lake.

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Figure 8: Data Sheet with Visual Encounter Survey data from a survey conducted June 17, 2020, at Island Lake, Nevada County. No herpetofauna were seen.