

## Memorandum

To: **Ms. Tracy McReynolds**

Date: **August 26, 2011**

From : **Department of Fish and Game-Chico Office**

Subject : **Big Chico Creek 2011 Adult Escapement Estimate**

Big Chico Creek was snorkel surveyed from Higgins Hole downstream to Ten Mile Gate on August 24<sup>th</sup>, 2011. The section from Ten Mile Gate to Salmon Hole was spot-checked at Brown's Hole and Salmon Hole by vehicle and on foot on August 26, 2011\*. The survey was divided into three different sections (Figure 1). Department of Fish and Game employees Colin Purdy, Chris Mckibbin and Kevin Moncrief participated in this years' survey.

**The 2011 spawning escapement for spring-run Chinook salmon is 124.** The total number of salmon observed in each section and water temperature data are provided in the table below.

Creek Section	# of Salmon	Temperature Range
(1) Higgins Hole To Henning's Hole	70	16-20°C
(2) Henning's Hole To Ten Mile Gate	26	17-20°C
(3) Ten Mile Gate To Salmon Hole*	28	17-19°C

In Section (1), twenty-five salmon were observed holding together in Higgins Hole, six were observed in a shallow run approximately ¼ mile downstream of Higgins Hole and 39 salmon were observed from a cliff bank overlooking the pool above Hennings Hole. In Section (2), two small grilse sized salmon were observed in a run/riffle complex and 24 salmon were observed in a large pool. In Section (3) all of the salmon observed were holding in Salmon Hole.

Any questions or concerns about the 2011 Big Chico Creek salmon escapement survey can be addressed to me at (530) 895-5110 or [cgarman@dfg.ca.gov](mailto:cgarman@dfg.ca.gov).

Clint Garman  
Fisheries Biologist

cc: Mr. Joe Johnson  
Ms. Kathy Hill

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## BIG CHICO CREEK SPAWNING ESCAPEMENT SURVEY REACHES

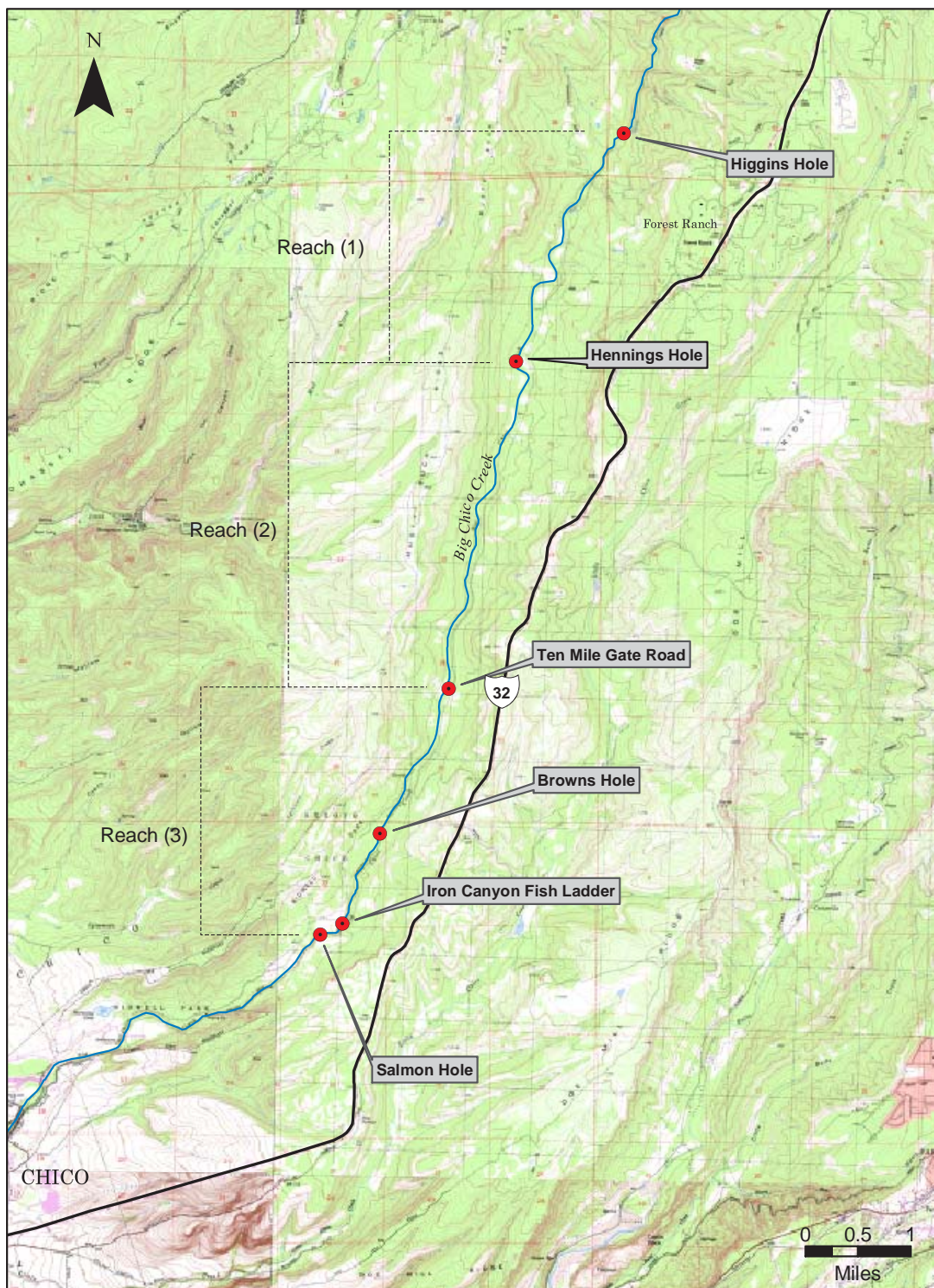


Figure 1. Big Chico Creek map showing spawning escapement survey reaches and major physical features from Higgins Hole to Salmon Hole.