EATSM Release Summary Form

Study objective(s): The purpose of this study is to track CV Steelhead smolt during their seaward migration from Mill and Deer Creeks to the Sacramento River Delta. In an effort to identify stressors and limits to survival, as well as gain a better understanding of wild CV Steelhead life histories.

State hypothesis (if applicable):

Study Type:	**Study Timing:**
☒ Reach-specific survival estimate ☒ Route selection ☒ Habitat use/preference ☒ Entrainment/fish passage evaluation ☒ Technology testing ☐ Other:	Study Duration (years):3 years Release Dates (range):)Oct-2019 – MAR 2022
	Study site(s): Collection site(s): Mill and Deer Creek (Tehama Co.) Release location(s): Mill and Deer Creek (Tehama Co.)

Fish

Species-race: Length (range):150 – 300 mm (FL) Life stage: Smolt	Source/quantity: Status of fish request:
Transmitter Information Type/model: Vemco V8 69khz Weight (gm): variable PRI/life of tag: variable (300-800 days)	**Implant procedure** ☒ Surgical ☐ Gastric ☐ Injected Has staff completed a standard tagging training (**Y/N**). **If yes, when?** Yes (2017)

Telemetry Receivers:

- Non-CAT Receivers Deployed/Duration:

Unknown at this time, receivers will be deployed in Clear Creek and the upper Sacramento main-stem (Keswick Dam RM 302 to Balls Ferry Bridge RM 273).

- Identify mission critical CAT receiver locations:

Red Bluff Diversion Dam, Cow Creek Confluence, Woodson Bridge, GCID, Verona, etc…

- Desired frequency of download (If Real-time data is required, indicate management directive):

N/A

Environmental/operating conditions (if applicable)

- Relevant discharge indices:
- Temperature:
- TDG:
- Treatment(s):

Unique study characteristics:

Active tracking will be used in the Upper Sacramento River Basin and specifically Mill and Deer Creek, as well as the Sacramento River main stem when applicable.