Telemetry Study Summary Framework

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Point of Contact:	
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Study objective(s): Estimate survival of acoustically tagged Feather River State Hatchery (FRSH) spring-run Chinook salmon juveniles to the USFWS trawl sampling stations at Sacramento and Chipps Island. These estimates will be used in the CWT-Acoustic Tag paired release hybrid design to determine trawl capture efficiency and abundance estimates for other runs of salmon. Tag life tests on a 5% sample of tags.	
State hypothesis (if applicable):	
Study Type:	Study Timing:
⊠ Reach-specific survival estimate	Study Duration (years): 3 Years
☐ Route selection	Release Dates (range; if applicable): April of 2019, and
☐ Habitat use/preference	2020
☐ Entrainment/fish passage evaluation	Study site(s): (If applicable)
☐ Technology testing	Collection site(s): FRSH
☑ Other: Methodology development	Release location(s): Feather River: Gridley and Boyds
Fish/Species of Interest	
Species-race: spring-run Chinook salmon Length (range): 87-100mm FL Life stage: Juvenile, sub-yearling	Source/quantity: FRSH 600 fish Status of fish request (if applicable): pending
Tagging Information (if applicable)	
Transmitter Information	Implant procedure
Type/model: JSATS ATS SS300 Weight (gm): 0.30	⊠ Surgical □ Gastric □ Injected
PRI/life of tag: 5 Second PRI. JSATS 30 day life.	Has staff completed a standard tagging training? (Y/N). If yes, when? Yes. 2013, 2015.
 Telemetry Receivers: Non-Core Receivers Deployed/Duration: November to July each year Identify mission critical Core receiver locations (general description): SacTrawl – dual array, 2 lines of 3 receivers, Chipps Island – dual array, 2 lines of 5 receivers Desired frequency of download (If Real-time data is required, indicate management directive): every 3 months 	
Environmental/operating conditions (if applicable)	
 Relevant discharge indices: varying flow Temperature: 8-20 deg C 	 TDG: Treatment(s): year and release location
Unique study characteristics: Use of acoustic telemetry survival estimates to improve abundance estimates derived from another sampling methods.	