CAMT 2019 Workplan and Budget

Approved February, 15, 2019

Updated May 23, 2019

CSAMP Priorities and CAMT Workplan Activities	Budget	Committed	Uncommitted
1. Maintain Collaborative Process			
a. Management and Facilitation	$420,000	$295,000	$125,000
b. Sponsored participants	$200,000	$200,000	$0
	$620,000	**$495,000**	**$125,000**
2. Complete Current CAMT Investigations and Communicate Findings			
a. OMR Management - Factors Affecting Delta Smelt Entrainment (Grimaldo)	$82,000	$82,000	$0
b. Fall Outflow - Characterizing the Relationships between Fall Outflow and Survival and Abundance of Delta Smelt (Fleishman)	$60,000	$60,000	$0
c. Delta Smelt Science Plan (Reed)	$15,000	$15,000	$0
d. Delta Salmon Rearing Habitat Study (SFEI)	$173,000	$173,000	$0
	$330,000	**$330,000**	**$0**
3. Support Implementation of Resiliency Strategies for Delta Smelt and Sacramento Salmonids			
a. CSAMP Structured Decision Making for Delta Smelt Recovery	$320,000	$320,000	$0
b. Assist with coordination of the Suisun Marsh Salinity Control Gates, North Delta Food Web and Flow Augmentation actions	Costs included in Item 1 – Collaborative Process		
c. Assist where projects are stuck or otherwise need guidance, including sorting out potential controversy, providing guidance on monitoring, and communicating status and results.	Costs included in Item 1 – Collaborative Process		
	$320,000	**$320,000**	**$0**

4. Support Additional Near-term, No Regrets Salmon Actions a. Use available models to evaluate potential actions. b. Identify projects in addition to the resiliency strategy where CSAMP could provide science support, funding and project management recommendations for early recovery actions that benefit both listed and non-listed species upriver and in the Delta.	$100,000 Costs included in Item 1 – Collaborative Process **$100,000**	$0 **$0**	$100,000 **$100,000**
5. Improve Coordination of Salmonid Research in the Delta and Support Development of an Integrated Central Valley Science Plan for Salmonids a. Develop salmon science plan for the Bay-Delta (ESSA)	$250,000 **$250,000**	$0 **$250,000**	$0 **$0**
6. Initiate Conversation Regarding Oversight, Guidance, and Feedback on Monitoring Schemes Targeting the Delta's Natural Resources a. Help establish monitoring designs and protocols necessary to evaluate the effectiveness of adaptive management actions b. Support efforts to identify indicators of the health and integrity of Delta ecosystems and communities c. Discuss CAMT role, if any, in review of long-term fish surveys and sampling schemes to assess status and trends and assess how to maximize the value of dedicated resources.	Costs included in Item 1 – Collaborative Process		
7. Advance Decision Support Tools a. Continue Winter-run Life Cycle Model Workshops a. Continue engagement in the Delta Science Program SDM process for the Delta.	$80,000 Costs included in Item 1 – Collaborative Process **$80,000**	$80,000 **$80,000**	$0 **$0**
Total	**$1,700,000**	**$1,475,000**	**$225,000**

2019 CAMT Workplan Details

1. Maintain Collaborative Process

Description	Provide management and facilitation for CAMT, Policy Group and subcommittees. Support sponsored participants
Contractors	Bruce DiGennaro (Essex), Kerns and West, Sam Luoma, Rene Henry, and John Ferguson (Anchor QEA)
2019 Budget	$620,000 ($420k for management and facilitation, $200k for sponsored participants)
Funding	Committed: PWA $40,000; USBR $105,000; DWR $320,000; NMFS $30,000; $495,000 Unfunded: $125,000
Comments	Existing facilitation contracts expire on 6/30/19. Funding shortfall is primarily a contracting issue.

2. Complete Current CAMT Investigations and Communicate Findings

2a. OMR Management - Factors Affecting Adult Delta Smelt Entrainment

Description	Studies 1 and 2 have been completed and a draft report has been received for Study 3 (proportional entrainment). Work in 2019 will focus on DSST review of Study 3 and completion of Study 4 (life cycle modeling).
Contractors	Lenny Grimaldo (ICF), Edward Gross, Josh Korman. Pete Smith, Michael MacWilliams, Will Smith
2019 Budget	$82,000
Funding	Committed: PWA $82,000 Unfunded: $0
Comments	Funding for responding to DSST comments, preparing presentation materials for CAMT and Policy Group and publication.

2b. Fall Outflow - Characterizing the Relationships between Fall Outflow and Survival and Abundance of Delta Smelt

Description	Identify environmental variables that are associated strongly with annual changes in survival during autumn and recruitment of Delta Smelt.
Contractors	Erica Fleishman– Principal Investigator, Nobel Hendrix, Robin Waples
2019 Budget	$60,000
Funding	Committed: PWA $60,000 Unfunded: $0
Comments	Funding to complete modeling responding to DSST comments and preparing presentation materials for CAMT and Policy Group.

2c. Delta Smelt Science Plan

Description	Support implementation of the Delta Smelt Science Plan
Contractors	Denise Reed
2019 Budget	$15,000
Funding	Committed: PWA $15,000 — Unfunded: $0
Comments	

2d. Delta Salmon Rearing Habitat Study

Description	Complete Delta Salmon Rearing Habitat Study
Contractors	San Francisco Estuary Institute (SFEI), Anchor QEA, RMA
2019 Budget	$173,000
Funding	Committed: NMFS $ 50,000; DSP $100,000; PWA $ 23,000 — Unfunded: $0
Comments	PWA's funding RMA to provide hydrodynamic modeling and expertise. NMFS funding is for Anchor QEA support. DSP funding is going to the Delta Conservancy for SFEI contract. The Conservancy is providing additional funding for SFEI not shown here.

3. Support Implementation of Resiliency Strategies for Delta Smelt and Sacramento Salmonids

3a. CSAMP Structured Decision Making for Delta Smelt Recovery

Description	Conduct Structured Decision Making (SDM) for Delta Smelt recovery
Contractors	Kerns and West and Compass Resources
2019 Budget	$320,000
Funding	Committed: PWA $ 25,000; USBR $295,000 — Unfunded: $0
Comments	PWA's funding Phase 1 (Project Initiation). USBR funding Phase 2. Work will continue into 2020.

4. Support Additional Near-term, No Regrets Salmon Actions

4a. Use Available Models to Evaluate Potential Near-term Salmon Actions.

Description	Evaluate potential benefits of near-term actions using existing models
Contractors	TBD
2019 Budget	$100,000
Funding	Committed: $0 — Unfunded: $100,000
Comments	Actions to be identified by CAMT

5. Improve Coordination of Salmonid Research in the Delta and Support Development of an Integrated Central Valley Science Plan for Salmonids

5a. Develop Salmon Science Plan for the Bay-Delta

Description	Develop a Salmon Science Plan for the Bay-Delta
Contractors	Kerns and West and ESSA
2019 Budget	$250,000
Funding	Committed: USBR $250,000 — Unfunded: $0
Comments	Work to continue into 2020

6. Initiate Conversation Regarding Oversight, Guidance, and Feedback on Monitoring Schemes Targeting the Delta's Natural Resources

Description	a. Help establish monitoring designs and protocols necessary to evaluate the effectiveness of adaptive management actions. b. Support efforts to identify indicators of the health and integrity of Delta ecosystems and communities. c. Discuss CAMT role, if any, in review of long-term fish surveys and sampling schemes to assess status and trends and assess how to maximize the value of dedicated resources.
Contractors	None – To be done by CAMT
2019 Budget	Costs included in Item 1 – Collaborative Process
Funding	NA
Comments	

7. Advance Decision Support Tools

Description	Continue Winter-run Life Cycle Model Workshops
Contractors	SWFSC
2019 Budget	$80,000
Funding	Committed Unfunded USBR $80,000 $0
Comments	Included in USBR contract with SWFSC for LCM development. Need to verify budget amount.