## **Draft Early Implementation Project List**

The following table provides a non-exhaustive list of Non-flow Measures that may potentially be credited under Early Implementation, pending testing and refinement of the Non-flow Measure Accounting description provided above.

| Tributary         | Project  | Description   | Instream<br>Rearing<br>(acres) | Spawning<br>Maintain<br>(acres) | New<br>Spawning<br>(acres) | Floodplain<br>(acres) | Tidal<br>(acres) | Fish Food<br>Production | Fish<br>Passage | Predation<br>Hotspot<br>Removed<br>(acres) | Stranding<br>Area<br>Removed<br>(acres) | Large<br>Wood<br>Clusters<br>(#<br>Added) | Boulder<br>Clusters<br>(#<br>Added) | Est.<br>Completion<br>Date |
|-------------------|--|---|--------------------------------|---------------------------------|----------------------------|-----------------------|------------------|-------------------------|-----------------|--|---|---|-------------------------------------|----------------------------|
| American<br>River | American River salmonid habitat improvement at upper river bend      | Excavating material from the floodplain to create side channel habitat for juvenile rearing. The excavated material would be sorted and placed into the river to improve substrate conditions for spawning at and downstream of the site. | 0.5                            | 2                               | 2                          | 2.5                   | 0                | 0                       | 0               | 0  | 0                                       | 25  | 0                                   | Done                       |
| American<br>River | American River salmonid<br>habitat restoration -<br>Ancil Hoffman    | Restore juvenile Chinook salmon and steelhead rearing habitat and enhance natural channel processes. Add spawning and rearing habitat.  | 1.0                            | 2.0                             | 2.0                        | 2.5                   | 0                | ٨                       | ۸               | 0  | 0.25                                    | 20  | 0                                   | Done                       |
| American<br>River | American River salmonid<br>habitat restoration -<br>Lower Sailor Bar | Restore juvenile Chinook salmon and steelhead rearing habitat and enhance natural channel processes. Add spawning and rearing habitat.  | 1.6                            | 3.0                             | 5.0                        | 1.0                   | 0                | ٨                       | ٨               | 0  | 0                                       | 70  | 0                                   | Done                       |
| American<br>River | American River salmonid<br>habitat restoration -<br>Sailor Bar       | Restore juvenile Chinook salmon and steelhead rearing habitat and enhance natural channel processes. Add spawning and rearing habitat.  | 2.0                            | 1.5                             | 2.0                        | 1.0                   | 0                | ٨                       | ۸               | 0  | 0                                       | 0   | 0                                   | Done                       |
| American<br>River | American River Spawning<br>and Rearing Habitat -<br>Sacramento Bar   | Restoration and enhancement of spawning and rearing habitat for anadromous fish in the Lower American River at Sacramento Bar, primarily through gravel addition and/or floodplain or side channel excavation.                            | 0.027                          | 0                               | 15.5                       | 5                     | 0                | ^                       | ^               | 0  | 0                                       | 0   | 0                                   | Done                       |

| American<br>River | American River spawning and rearing habitat  | Restore juvenile Chinook salmon and steelhead rearing habitat and enhance natural channel processes. Add spawning and rearing habitat.   | 1    | 1.5  | 2 | 3    | 0 | ٨ | ٨ | 0    | 0 | 50 | 12 | Done |
|-------------------|--|--|------|------|---|------|---|---|---|------|---|----|----|------|
| American<br>River | American River Spawning<br>and Rearing Habitat -<br>Nimbus Basin                                     | Spawning/rearing habitat combination project.  Maintenance of previously enhanced site that experiences heavy spawning activity - due to location in upper river. Included in completed programmatic permitting effort.  | 3.44 | 1.46 | ^ | 1.46 | 0 | ^ | ٨ | ٨    | ٨ | ٨  | ٨  | Done |
| Antelope<br>Creek | Antelope Creek Fish<br>Screen Project  | Eliminate fish mortality due to diversions of water from CVP rivers in the Central Valley. 100 CFS diversion/pump replacement/screen installation.   | 5    | 0    | 0 | 0    | 0 | 0 | 0 | 0.75 | ۸ | 0  | 0  | Done |
| Battle<br>Creek   | Battle Creek winter run<br>chinook reintroduction<br>and Battle Creek Colemn<br>Weir passage project | Design and construction of the infrastructure (monitoring, trapping, holding, and sampling) for the Battle Creek (BC) winter-run "jump-start".   | 5.28 | 0    | 0 | 0    | 0 | ۸ | ٨ | ۸    | ۸ | ^  | ۸  | Done |
| Battle<br>Creek   | North Fork Battle Creek<br>Natural Barrier Removal   | North Fork Battle Creek Natural<br>Barrier Removal.  | 9.7  | 0    | 0 | 0    | 0 | 0 | ۸ | 0    | 0 | 0  | 0  | Done |
| Butte Creek       | Butte Creek Diversion 55<br>Fish Screen Project  | Eliminate fish mortality due to diversions of water from CVP rivers in the Central Valley. 7 CFS diversion/pump replacement/screen installation.   | 0.35 | 0    | 0 | 0    | 0 | 0 | ٨ | 0.25 | ۸ | 0  | 0  | Done |
| Clear Creek       | Clear Creek Gravel<br>Augmentations  | Annual gravel augmentations into Clear Creek to provide spawning habitat for anadromous salmonids, and to promote geomorphic processes that create habitat for all inriver fish life history stages. The project can also utilize boulder clusters and large wood placements. This project should continue in purpetuity, as Whiskeytown Dam cuts off sediment supply and alters geomorph process. | 0.25 | 13.2 | 0 | 0.25 | 0 | ^ | ٨ | 0    | 0 | 14 | 8  | Done |

| Clear Creek      | Clear Creek phase 3B                                      | Complete Phase 3B floodplain restoration actions that were left undone at time of Phase 3a construction due to state bond crisis. 3b is the final component of Phase 3a. The main focus of 3b is to revegetate barren floodplains and remove legacy  | 0    | 0   | 0   | 7.5 | 0   | ٨    | ٨ | 0 | 0 | 0   | 0 | 2023 |
|------------------|---|--|------|-----|-----|-----|-----|------|---|---|---|-----|---|------|
|                  |   | irrigation materials. Project will   |      |     |     |     |     |      |   |   |   |     |   |      |
| Clear Creek      | Clear Creek Phase 3C                                      | be complete in Spring 2024.  Improve stream channel, floodplain, and associated habitats to provide increased spawning and rearing habitat for salmonids. The main focus of the project was to return the creek to its historic allignment and plug a 1950s era man-made ditch. The construction portion of the project was completed in 2021. Revegetation efforts will | 17.5 | 0.0 | 0   | 1.0 | 0   | ۸    | ^ | 0 | 0 | 100 | 0 | Done |
|                  |   | be complete in 2023.   |      |     |     |     |     |      |   |   |   |     |   |      |
| Delta            | Prospect Island   | Tidal restoration project. Benefits to Delta and longfin smelt spawning & rearing habitat; and salmonid rearing habitat (acreage reduction possible due to BiOps).   | ٨    | ۸   | ٨   | ۸   | ۸   | 1540 | ۸ | ۸ | ۸ | ۸   | ۸ | 2026 |
| Delta            | Tides End   | Floodplain, tidal restoration, and farmland food production project. Benefits to Delta and longfin smelt spawning & rearing habitat; and salmonid rearing habitat.   | ۸    | ۸   | ٨   | 140 | 670 | 2100 | ۸ | ۸ | ۸ | ۸   | ۸ | 2027 |
| Feather<br>River | Garden Highway Mutal<br>Water Co. Fish Screen<br>Project  | Eliminate fish mortality due to diversions of water from CVP rivers in the Central Valley. 112 CFS diversion/pump replacement/screen installation.   | 5.6  | ٨   | ^   | ۸   | 0   | ۸    | ۸ | 1 | ۸ | ۸   | ۸ | Done |
| Feather<br>River | Feather River Salmonid<br>Spawning Habitat<br>Improvement | The placement, sorting, and harvesting of gravel and cobble (1/4"-5") to restore spawning habitat in the Feather River.  | ۸    | ۸   | 4.5 | ^   | 0   | 0    | ۸ | ۸ | ۸ | ۸   | ۸ | Done |

| Feather   | Sunset Pumps             | Remove a fish passage barrier     | ٨    | ٨    | ٨ | 0     | 0 | 0 | Yes | ٨ | ٨ | 0 | 0 | 2026 |
|-----------|--------------------------|-----------------------------------|------|------|---|-------|---|---|-----|---|---|---|---|------|
| River     | Sunseer umps             | to improve upstream passage       |      |      |   |       |   |   | 103 |   |   |   |   | 2020 |
| 1         |                          | for salmonids and green           |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | sturgeon. Install fish protective |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | screens at existing diversions to |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | reduce mortality of migrating     |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | juvenile salmonids.               |      |      |   |       |   |   |     |   |   |   |   |      |
| Feather   | Star Bend Setback Levee  | Provide optimal habitat for       | ٨    | ٨    | ٨ | 50    | 0 | ٨ | ٨   | ۸ | ٨ | ۸ | ٨ | ۸    |
| River     |                          | floodplain rearing and reduce     |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | stranding during high flow        |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | events.                           |      |      |   |       |   |   |     |   |   |   |   |      |
| Feather   | Nelson Slough Floodplain | The project could increase        | ٨    | ٨    | ٨ | 3000  | 0 | ۸ | ٨   | ^ | ٨ | ۸ | ٨ | ۸    |
| River     | Restoration              | floodplain habitat available to   |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | Feather, Yuba, and Bear River     |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | salmonids by 3,000 to 5,000       |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | acres. Additional floodplain      |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | inundation resulting from this    |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | project could provide rearing     |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | benefits to Sacramento River      |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | origin juvenile winter and        |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | spring-run Chinook salmon,        |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | juvenile Butte Creek spring-run   |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | Chinook salmon in the Sutter      |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | Bypass as well as to Feather      |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | River basin spring-run Chinook    |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | salmon.                           |      |      |   |       |   |   |     |   |   |   |   |      |
| Mokelumne | Gravel Enhancement       | Provide maintenance gravel        | ٨    | 0.87 | ^ | ^     | ^ | 0 | 0   | 0 | 0 | ۸ | ٨ | Done |
| River     | Maintenance              | annually to existing restored 1   |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | mile reach on the Lower           |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | Mokelumne River. Maintains        |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | habitat suitability in enhanced   |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | spawning areas.                   |      |      |   |       |   |   |     |   |   |   |   |      |
|           | Screen High Priority     | Prioritize riparian pumps for     | 1.71 | ٨    | ۸ | ^     | ^ | 0 | 5   | ٨ | ٨ | ٨ | ۸ | ^    |
| River     | Diversions               | screening based on timing of      |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | operation and size of fish        |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | passing. Screen highest priority  |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | pumps. Improve survival of        |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | juveniles.                        | _    |      |   |       |   |   |     |   |   |   | _ |      |
| Mokelumne | Creation of Floodplain   | Design and build floodplain       | ۸    | ^    | ^ | 28.67 | ^ | ٨ | ^   | ٨ | ٨ | ٨ | ^ | Done |
| River     | Habitats                 | habitat to maximize rearing       |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | capacity in a 2 or 3 year         |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | recurrence cycle. Improves        |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | instream growth and improve       |      |      |   |       |   |   |     |   |   |   |   |      |
|           |                          | outmigrant survival.              |      |      | 1 |       |   |   | 1   |   |   |   |   |      |

| Mokelumne<br>River  | Lower Mokelumne River<br>Salmonid Spawning and<br>Rearing Habitat<br>Improvement | The excavation and recontouring of the lower Mokelumne River stream bank to provide seasonal floodplain habitats for juvenile salmonid rearing and to sort and harvest gravel and cobble (1/4"-5") from the excavated materials, which will be used to improve or expand nearby spawning habitats.  | 1.21 | 0.3 | 0.3 | 0.8 | ^ | ٨ | ٨ | 0   | 0 | 0   | 0 | Done |
|---------------------|--|---|------|-----|-----|-----|---|---|---|-----|---|-----|---|------|
| Putah               | Expansion of Available<br>Spawning Habitat                                       | Creation of 62,000 sqft of spawning habitat in Lower Putah Creek through gravel scarification (loosening of existing gravels) and new spawning side channels in conjunction with other floodplain habitat improvements at two project sites. This project is intended to double available salmonid spawning habitat in Lower Putah Creek. | ٨    | ^   | 1.4 | ٨   | ^ | ٨ | ٨ | ٨   | ٨ | ٨   | ٨ | 2024 |
| Sacramento<br>River | Meridian Farms Pump<br>Replacement   | Eliminate fish mortality due to diversions of water from CVP rivers in the Central Valley. 135 CFS Pump Replacement & Fish Screen Project.  | 6.8  | 0   | 0   | 0   | 0 | ۸ | ۸ | 3.0 | 0 | 0   | 0 | 2024 |
| Sacramento<br>River | Natural and artificial rearing structures in the Upper Sacramento River          | Projects add natural and/or artificial rearing structures, including large woody structures, in the Upper Sacramento River within the first 10 river miles downstream of Redding.   | 0.4  | 0   | 0   | 0   | 0 | ٨ | ٨ | 0   | 0 | 40  | 0 | Done |
| Sacramento<br>River | Restore rearing and spawning side channels in the upper sacramento river         | Restoring side-channels to provide juvenile rearing habitat for salmon and steelhead in the Upper Sacramento River (Keswick Dam to Red Bluff).  | 1.3  | 0   | 0   | 0   | 0 | ۸ | ۸ | 1   | 0 | 10  | 0 | Done |
| Sacramento<br>River | Sacramento River - East<br>Sand Slough restoration                               | Improves juvenile rearing habitat at East Sand Slough side channel on the Sacramento River in Red Bluff.  | 5    | 0   | 0   | 5   | 0 | ۸ | ۸ | 0   | 5 | 300 | 0 | Done |

| C          | Conservato Divers        | In alcohol Consol Inication at    |     | T- |      |     |   | ΙΛ | ٨ | 10  |   | Το  | Τ_0 | D    |
|------------|--------------------------|-----------------------------------|-----|----|------|-----|---|----|---|-----|---|-----|-----|------|
| Sacramento | Sacramento River         | Includes Gravel Injection at      | 0   | 5  | 0    | 0   | 0 | ^  |   | 0   | 0 | 0   | 0   | Done |
| River      | improve spawning         | Keswick Dam and instream          |     |    |      |     |   |    |   |     |   |     |     |      |
|            | habitat above            | gravel placement at               |     |    |      |     |   |    |   |     |   |     |     |      |
|            | temperature control      | downstream locations to the       |     |    |      |     |   |    |   |     |   |     |     |      |
|            | points                   | temperature control point.        |     |    | _    | _   | _ |    |   |     |   |     |     |      |
| Sacramento | Sacramento River         | Implements the top priority       | ^   | ^  | ٨    | ^   | 0 | ^  | ^ | ٨   | ٨ | ^   | ٨   | 2025 |
| River      | Salmonid Habitat         | habitat improvements along the    |     |    |      |     |   |    |   |     |   |     |     |      |
|            | Improvement - Keswick    | Sacramento River between          |     |    |      |     |   |    |   |     |   |     |     |      |
|            | to Red Bluff             | Keswick and Red Bluff.            |     |    |      |     |   |    |   |     |   |     |     |      |
| Sacramento | South Cypress (Nur Pon)  | Reconnected and expanded off      | 5.2 | 0  | 1.0  | 0   | 0 | ^  | ^ | 2.9 | 0 | 40  | 0   | Done |
| River      |                          | channel rearing habitat by        |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | excavating a channel between      |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | existing ponds, sorted            |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | excavated material, and placed    |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | the excavated material in the     |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | river. Included two channel       |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | crossings for City of Redding's   |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | public recreation area at the     |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | site.                             |     |    |      |     |   |    |   |     |   |     |     |      |
| Sacramento | Anderson River Park      | Created first of three perennial  | 1.5 | 0  | 0.5  | 1.0 | 0 | ۸  | ٨ | 6.0 | 0 | 60  | 0   | Done |
| River      | Phase I                  | channels in Anderson River Park   |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | for juvenile rearing.             |     |    |      |     |   |    |   |     |   |     |     |      |
| Sacramento | Anderson River Park      | Created second and third of       | 2.9 | 0  | 0.5  | 1.0 | 0 | ۸  | ٨ | 0   | 0 | 140 | 0   | Done |
| River      | Phase II & III           | three new channels for juvenile   |     |    |      |     |   |    |   |     |   |     |     | 255  |
| 1          | i nase n a m             | rearing at Anderson River Park.   |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | Stockpiled gravel in mainstem     |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | Sacramento River for high flows   |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | to distribute.                    |     |    |      |     |   |    |   |     |   |     |     |      |
| Sacramento | East Sand Slough         | Created two mile long side        | 7.1 | 0  | 0    | 0   | 0 | ^  | ٨ | 1.0 | 0 | 400 | 0   | Done |
| River      | Last Sand Slough         | channel at East Sand Slough in    | /.1 |    | 0    | U   | 0 |    |   | 1.0 |   | 400 |     | Done |
| Kivei      |                          | Red Bluff within the footprint of |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | the old Lake Red Bluff left dry   |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | with permanent opening of Red     |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          |                                   |     |    |      |     |   |    |   |     |   |     |     |      |
| Cooresente | Rio Vista                | Bluff Diversion Dam gates.        | 2.0 | 0  | 0.25 |     | ۸ | ٨  | ٨ | 0   |   | 15  | 0   | Dana |
| Sacramento | RIO VISTA                | Excavated a historic side         | 2.0 | 0  | 0.25 | 0   | ^ |    | ^ | 0   | 0 | 15  | 0   | Done |
| River      |                          | channel to create perennial       |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | rearing habitat and added         |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | sorted gravel to the mainstem     |     |    |      |     |   |    |   |     |   |     |     |      |
|            |                          | to provide spawning habitat.      |     |    |      |     |   |    |   |     |   |     |     |      |
| Sacramento | Sacramento River         | Sacramento River Habitat          | 8   | 0  | 0.2  | 8   | ^ | ^  | ٨ | 12  | 0 | 150 | 0   | Done |
| River      | Salmonid Habitat         | Restoration at Reading and        |     |    |      |     |   |    |   |     |   |     |     |      |
|            | Restoration at           | Rancheria Islands.                |     |    |      |     |   |    |   |     |   |     |     |      |
|            | Reading/Rancheria Island |                                   |     |    |      |     |   |    |   |     |   |     |     |      |
| Sacramento | Sacramento River         | Charter included multiple         | 3   | 3  | 0    | 0   | 0 | ^  | ٨ | 1   | 1 | 50  | 0   | Done |
| River      | Salmonid Spawning and    | spawning and rearing habitat      |     |    |      |     |   |    |   |     |   |     |     |      |
|            | Rearing Habitat          | projects between Keswick and      |     |    |      |     |   |    |   |     |   |     |     |      |
|            | Restoration              |                                   |     |    |      |     |   |    | 1 |     |   |     |     |      |

|                     |  | Red Bluff. Projects listed individually.  |     |    |      |   |   |   |   |   |   |     |    |      |
|---------------------|--|---|-----|----|------|---|---|---|---|---|---|-----|----|------|
| Sacramento<br>River | Sacramento River<br>Tributaries Non-Natal<br>Rearing Evaluation and<br>Restoration | Confirm current non-natal use and existing/potential habitat in tributaries along upper Sac River. Identify access issues. Plan and implement restoration on tributaries. | ٨   | ^  | ۸    | ^ | 0 | ٨ | ۸ | ۸ | ۸ | ۸   | ۸  | 2025 |
| Sacramento<br>River | NOFO Middle Creek<br>Gravel (JH)   | The objective of this project is to restore, maintain, and improve Chinook Salmon and steelhead habitats and thereby improve the status of the species in California.     | ۸   | 15 | ۸    | ۸ | 0 | ۸ | ۸ | ۸ | ۸ | ٨   | ۸  | 2023 |
| Sacramento<br>River | NOFO Redding Riffle<br>Gravel (JH)   | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.                             | ۸   | ۸  | 3    | ۸ | 0 | ۸ | ۸ | ۸ | ۸ | ۸   | ٨  | 2023 |
| Sacramento<br>River | NOFO Tobiason Island<br>(JH) (Michieils Island)                                    | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.                             | 4   | ۸  | 1    | 0 | ^ | ۸ | ۸ | 0 | ۸ | 80  | ٨  | 2023 |
| Sacramento<br>River | NOFO Rockwad Phase I<br>(JH)   | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.                             | 1   | ۸  | 0    | 0 | ^ | ٨ | ۸ | 0 | ۸ | 0   | 25 | 2023 |
| Sacramento<br>River | NOFO Rockwad Phase II<br>(JH)  | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.                             | 0.5 | ٨  | 0    | 0 | ^ | ٨ | ۸ | 0 | ۸ | 0   | 20 | 2023 |
| Sacramento<br>River | NOFO Kapusta Island<br>Side Channel (JH)   | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.                             | 2.8 | ٨  | 1    | 0 | 0 | ٨ | ۸ | 0 | ۸ | 40  | ۸  | 2023 |
| Sacramento<br>River | NOFO Kapusta 1B Side<br>Channel and Gravel (JH)                                    | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.                             | 1.5 | 0  | 0.25 | 1 | 0 | ٨ | ۸ | ۸ | ۸ | 130 | ۸  | Done |

| Sacramento<br>River | NOFO Keswick Gravel<br>(JH)   | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.  | 0   | 18.7 | 0   | 0   | 0 | ٨      | ٨ | 0 | 0 | 0  | 0 | Done |
|---------------------|---|--|-----|------|-----|-----|---|--------|---|---|---|----|---|------|
| Sacramento<br>River | NOFO Market Street<br>Gravel - 2019 (JH)                              | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.  | 0   | 3    | 0   | 0   | 0 | ۸      | ^ | 0 | 0 | 0  | 0 | Done |
| Sacramento<br>River | NOFO Market Street<br>Gravel - 2023 (JH)                              | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.  | 5   | 6    | 0   | 0   | 0 | ٨      | ٨ | 0 | 0 | 0  | 0 | 2023 |
| Sacramento<br>River | NOFO Shea Side Channel (JH)   | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.  | 2.5 | 0    | 1.7 | 0   | ٨ | ٨      | ٨ | 0 | 0 | 40 | 0 | Done |
| Sacramento<br>River | American Basin fish<br>Screen Project Phase 2<br>Riverside Diversion  | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.  | 2.3 | ۸    | ٨   | ٨   | ٨ | ۸      | ^ | 1 | ۸ | ۸  | ^ | 2023 |
| Sacramento<br>River | American Basin Fish<br>Screen Project - Phase 4,<br>Elkhorn Diversion | Restore, maintain, and improve<br>Chinook Salmon and steelhead<br>habitats and thereby improve<br>the status of the species in<br>California.  | 3   | ۸    | ٨   | ۸   | ٨ | ۸      | ٨ | 1 | ۸ | ٨  | ۸ | 2025 |
| Sacramento<br>River | Willow Bend   | Modify a side channel to provide access to 3,400 ft. of seasonally inundated habitat and remove a stranding hazard. (~4.7 acres)   | ۸   | ۸    | ٨   | 4.7 | 0 | ۸      | ۸ | ۸ | ۸ | ۸  | ۸ | ٨    |
| Sacramento<br>River | Fish Food Pilot Program   | Program to determine optimal process to grow fish food on the dry side of the levees and transport it to migrating juvenile salmon in the river. Improves food accessibility for migrating juvenile salmon. This is an ongoing program that will continue to enroll new acreage. | ٨   | ۸    | ٨   | ٨   | 0 | 15,000 | ٨ | ۸ | ٨ | ٨  | ٨ | ٨    |

| Sacramento          | Sutter Bypass Weir 1  | Improve adult passage for  | 0    | 0    | 0   | ٨    | 0 | ۸ | 1 | ٨ | ٨ | ۸ | ٨ | 2024 |
|---------------------|---|--|------|------|-----|------|---|---|---|---|---|---|---|------|
| River               |   | upstream migration, and out-<br>migrating juveniles to access<br>Sutter Bypass. Includes a new<br>Lower Butte/Sutter Bypass<br>Water Management Plan.  |      |      |     |      |   |   |   |   |   |   |   |      |
| Stanislaus<br>River | Goodwin Dam Gravel<br>(22,700 tons)   | Added spawning gravel in Goodwin Canyon at the Float Tube Pool and Cable Crossing.   | 0.25 | 1.26 | 0   | 0    | 0 | ٨ | ^ | 0 | 0 | 0 | 0 | Done |
| Stanislaus<br>River | Knights Ferry Lancaster<br>Road   | Restore at least 1.7 acres of floodplain and 500 ft of side channel habitat on private property adjacent to the Stanislaus River.  | 0.4  | 0    | 0   | 0    | 0 | ^ | ۸ | 0 | 0 | 0 | 0 | Done |
| Stanislaus<br>River | Stanislaus Knights Ferry<br>Floodplain Restoration<br>Project- Rodden Road  | Restore functional seasonally inundated floodplain and side channel habitat at the USACE Knights Ferry Recreation Area to increase juvenile rearing habitat.   | 0    | 0    | 0   | 190  | 0 | ^ | ^ | 0 | 0 | 0 | 0 | Done |
| Stanislaus<br>River | Stanislaus River at Kerr<br>Park  | The project will restore seasonal inundation to approximately 10 acres of floodplain habitat located at Kerr Park (rm 43), with additional in-channel enhancement.   | ٨    | 7    | ^   | 21   | 0 | ^ | ^ | ۸ | ^ | ۸ | ٨ | 2024 |
| Stanislaus<br>River | Stanislaus River Juvenile<br>Rearing - Rodden Road                          | Ongoing project to implement both in- and off-channel restoration designed to provide additional rearing habitat for juvenile salmon and steelhead in the Stanislaus River in collaboration with private landowners across the river from the City of Oakdale. | 4.9  | ٨    | 4.9 | ٨    | 0 | ^ | ^ | ٨ | ^ | ٨ | ٨ | Done |
| Stanislaus<br>River | Stanislaus Gravel Project   | Spawning gravel placement below Goodwin Dam for the maintenance of spawning habitat.   | 25   | 0    | 25  | 0    | 0 | ٨ | ٨ | 0 | 0 | 0 | 0 | 2024 |
| Yuba River          | Yuba Daguerre/Hallwood/Yuba R Juvenile Salmonid Rearing Habitat Restoration | Side Channel and Floodplain<br>Restoration.  | 17.6 | 0    | 0   | 71.4 | 0 | ^ | ۸ | 0 | 0 | 0 | 0 | Done |
| Yuba River          | Yuba River Narrows<br>Restoration   | Yuba River Narrows Restoration Project.  | 7    | 0    | 2   | 0    | 0 | ^ | ۸ | 0 | 0 | 0 | 0 | Done |

| Vuba Divor | Hallwood Project /Phase | Creation and enhancement of      | ٨ | Ι_Λ | ٨ | 68   | 10 | ٨ | ۸ | ΙΛ | I A | ٨ | ٨ | 2024 |
|------------|-------------------------|----------------------------------|---|-----|---|------|----|---|---|----|-----|---|---|------|
| Yuba River | Hallwood Project (Phase |                                  | ^ |     |   | 08   | 0  | " |   |    |     |   | " | 2024 |
|            | 2 to 4)                 | 68 acres of juvenile floodplain  |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | rearing habitat and 3.3 miles    |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | of seasonal channels, alcoves,   |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | and swales. Improves natural     |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | river morphology and increases   |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | floodplain habitat, riparian     |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | habitat, instream cover, and     |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | habitat complexity, diversity    |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | and availability over a broad    |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | range of flows.                  |   |     |   |      |    |   |   |    |     |   |   |      |
| Yuba River | Hallwood Project (Phase | Remove Middle Training Wall      | ٨ | ^   | ^ | 21   | 0  | ^ | ٨ | ^  | ^   | ٨ | ^ | 2024 |
|            | 4 of 4)                 | (400,000 cubic yards of          |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | sediment) and enhancing 21       |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | acres of floodplain and          |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | seasonally inundated side        |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | channel habitat.                 |   |     |   |      |    |   |   |    |     |   |   |      |
| Yuba River | Long Bar Salmonid       | 42.8 total acres: creation of    | ۸ | ٨   | ٨ | 40.9 | 0  | ٨ | ٨ | ۸  | ٨   | ۸ | ٨ | Done |
|            | Habitat Restoration     | seasonally or perennially        |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | inundated side channels (5.9     |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | acres), backwaters (2.4 acres),  |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | flood runner channels (1.9       |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | acres), and backwater channel    |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | (5.4 acres), and lowering of     |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | floodplain elevations (27.2      |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | acres) to support juvenile       |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | salmonid rearing habitat.        |   |     |   |      |    |   |   |    |     |   |   |      |
| Yuba River | Upper Rose Bar Habitat  | The project footprint is         | ٨ | ٨   | 5 | 1.2  | 0  | ٨ | ٨ | ۸  | ٨   | ٨ | ٨ | 2024 |
|            | Restoration Project     | approximately 40 acres, and will |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | provide approximately 5 acres    |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | of salmon spawning habitat.      |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | The project also includes        |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | placement of large wood, and     |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | other measures that provide      |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | refugia and suitable rearing     |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | habitat for juvenile salmonids,  |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | resulting in approximately 1.2   |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         |                                  |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | acres of juvenile Chinook        |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | salmon instream rearing          |   |     |   |      |    |   |   |    |     |   |   |      |
|            |                         | habitat.                         |   |     |   |      |    |   |   |    |     |   |   |      |

<sup>^</sup>Information is forthcoming.