

Adult Passage

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RESTORATION PROGRAM



Adult Fish Passage Evaluation (2013 MAP Study #20)

An addendum to the Task 2 adult Chinook salmon fish passage evaluation is being completed to evaluate the unimpeded flows for structures within the Chowchilla Bypass and the Eastside Bypass upstream of the Sand Slough Connector. Several structures within this reach of the Bypass were identified in the *Framework for Implementation Plan* for improvements for fish passage. Additional structures within this reach of the bypass that may impede fish passage were also included in the Addendum and listed in Table 1. The results of the Addendum will determine if these structures need improvement and inclusion into Task 3 in order to provide unimpeded fish passage for adult Chinook salmon.

Table 1. Additional Second Pass Locations

| Identification Number | Reach | Description |
|------------------------------|--------------|-------------------------------------|
| 58 | 4A/EB | Avenue 21 Bridge |
| 60 | 4A/EB | Eastside Bypass Pipe Crossing |
| 61 | 4A/EB | Avenue 18-1/2 Bridge |
| 64 | 3/EB | Eastside Bypass Drop 1 |
| 65 | 3/CB | Eastside Bypass Drop 2 |
| 21 | 2A/CB | Chowchilla Bypass Control Structure |

This reach of the bypass had a preliminary fish passage assessment but the hydraulic model for the bypass had not been calibrated and updated with the latest topography. This area of the bypass has experienced subsidence. DWR conducted topographical surveys along the levee crowns of much of the bypass in late 2012 and determined that the subsidence rates are between 0.3 feet to 0.8 feet per year. The model was updated to reflect these rates as well as new structural details and was calibrated by DWR using water surface profile and flow data collected in 2011. These changes to the model better define the hydraulics at each of the structures, allowing for a more detailed review of the fish passage conditions. The same fish passage criteria that were applied during Task 2 will also be applied to the structures in this Task 2 Addendum.

This work needs to be completed in order to determine what structures will be part of the proposed work for Task 3. Task 3 work will begin once the Addendum for Task 2 has been completed and the final draft released. The final draft of the Addendum is expected later this year. Details of work proposed for Task 3 were reported in Study 20 of the 2013 Draft Monitoring and Analysis Plan.

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