SITES PROJECT AND MODELING UPDATE AND DISCUSSION- AQUATICS FOCUSED

OCTOBER 26, 2020

Sites

Objectives of Meeting

1. Provide general update on:
    - Revised project description
    - 2020 model update
2. Discuss next steps and timing

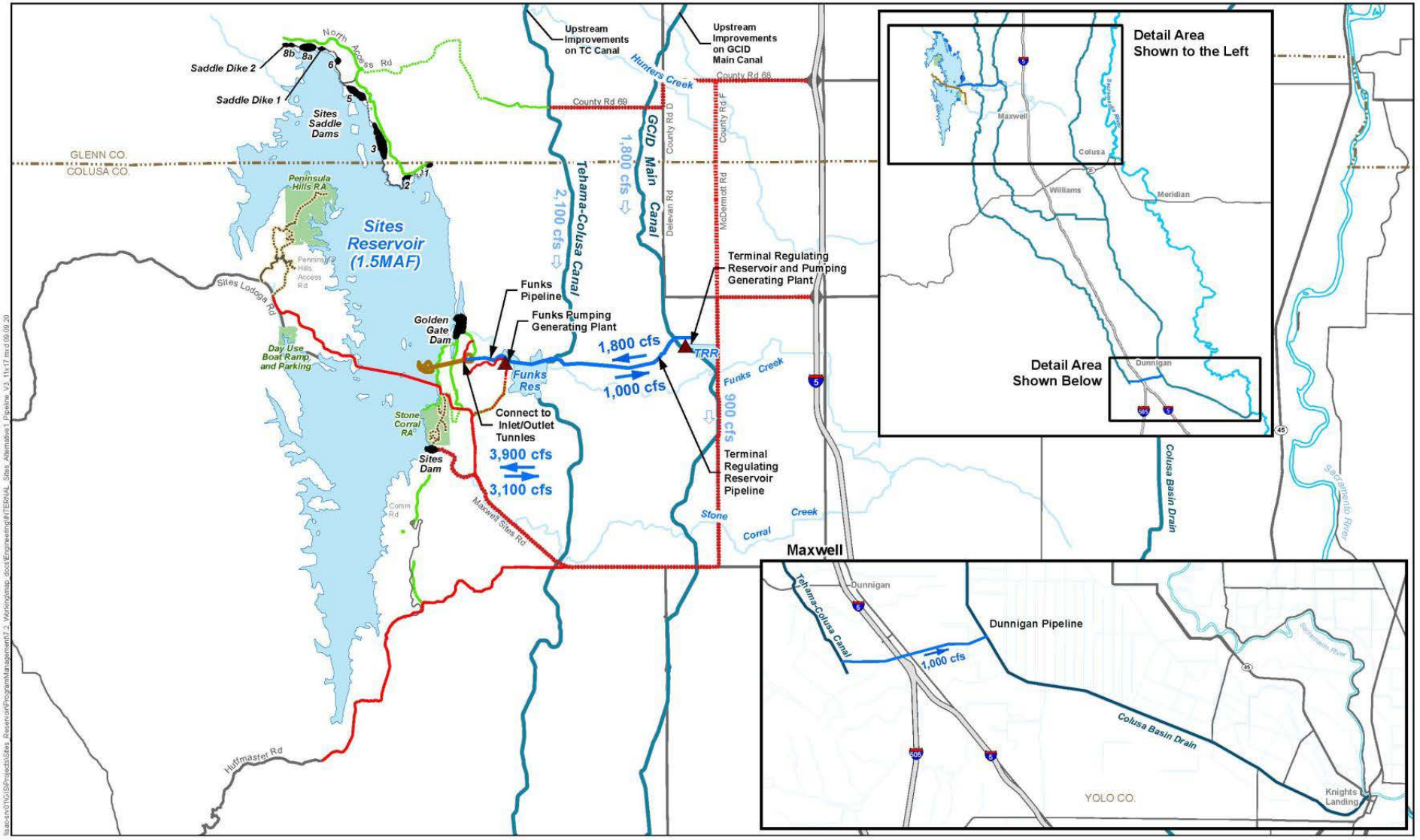
Revised Project Description

Major Revisions to Project

- Reservoir size reduced from 1.8 to 1.5 MAF
- No Delevan diversion, pipeline or outfall
  - Utilize existing at Red Bluff and Hamilton City pumping plants
  - Releases to T-C Canal to the CBD
  - New 1,000 cfs near Dunnigan
  - Alternative 2: a new 1,000 CFS outfall near Tyndall Landing
- Releases reduced from 1,500 to 1,000 cfs

Sites

Revised Project: Alternative 1



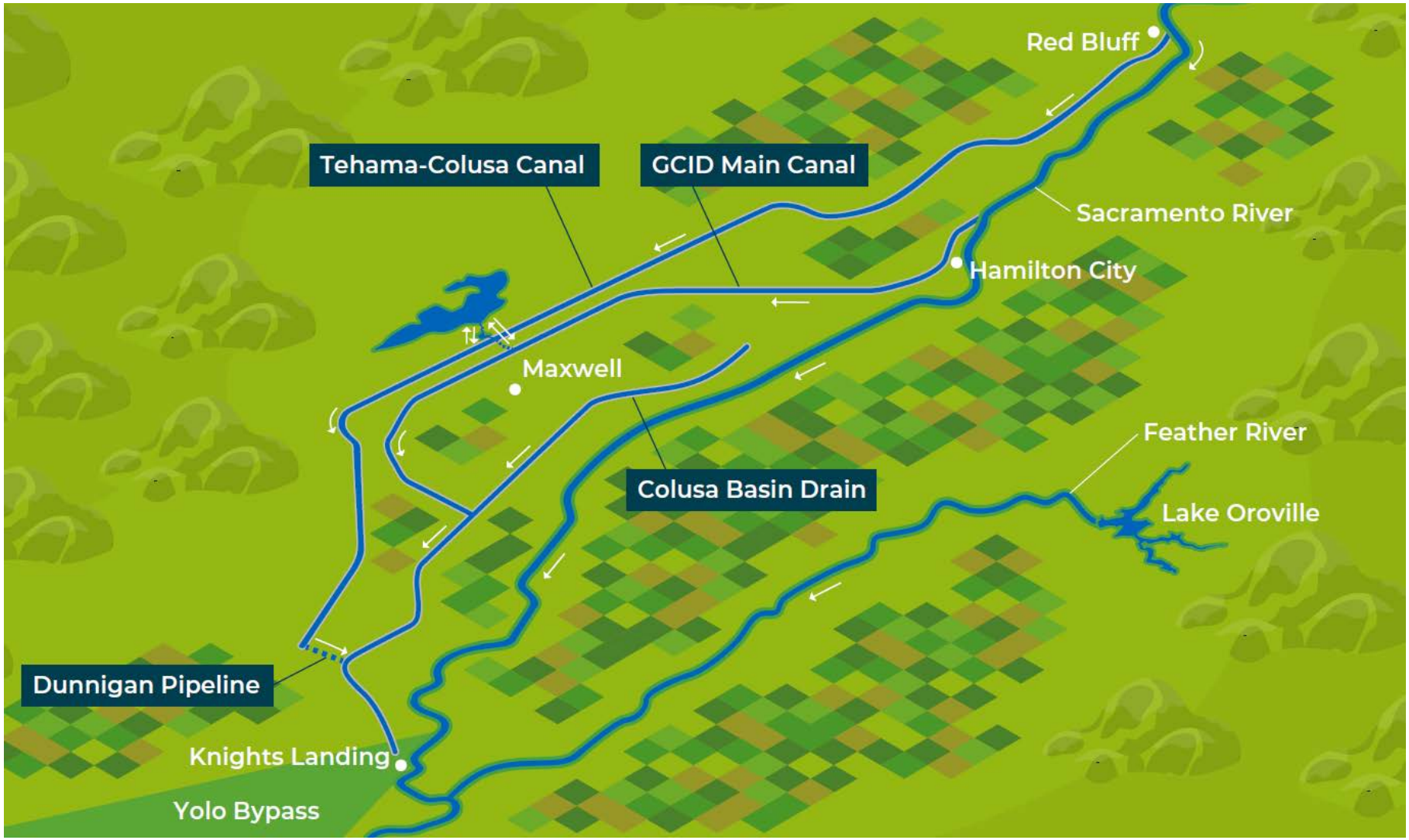
Legend

- Canal
- Pipeline
- Maintenance Access Road
- Construction/Maintenance Route
- New/Realigned Permanent Road
- Construction Route (Existing Road)
- Existing Roads
- Waterways

0 N 2
Scale in Miles

ALTERNATIVE 1

Revised Project: Alternative 1



Sites Project Model Updates

Agenda

- Updates to Sites Project sizing and facilities
- Updates to CalSim II model
- Preliminary Effects Analysis (PEA)
- Assumptions
- Results

Sites Facilities

- 1.5 MAF Reservoir
- 2 intakes
- Dunnigan Pipeline
  - Outlet: Connects Tehama-Colusa Canal to Colusa Basin Drain
  - Capacity: 1,000 cfs

Updates to CalSim II model

- Baseline model
  - 2019 BiOps at current climate
  - Updates, incorporating 2020 SWP ITP action are forthcoming
- Hydrology improvements
  - Bypass and weir flow modeling improved
- Federal participation
  - Coordination with Reclamation on-going
  - Evaluating options with Reclamation as a funding partner and/or Reclamation as an exchange partner at Shasta
- State Water Project participation
  - Coordination with DWR on-going
  - Assessing integration of project with Oroville

Sites

Preliminary Effects Analysis (PEA)

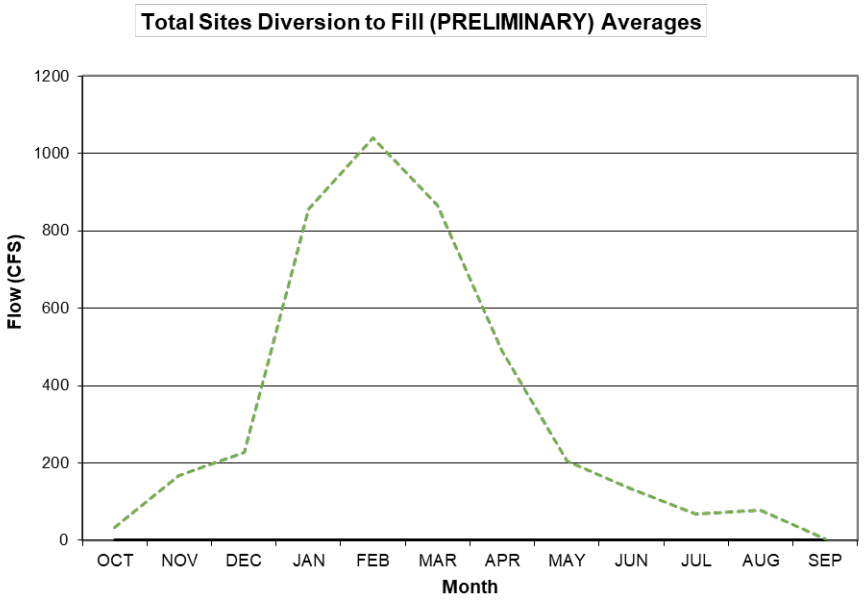
- Goal: Identify and resolve areas of concern for aquatic resources
- Approach: Assess effects of Sites with assumptions (below) that would identify potential impacts to aquatic resources
  - Larger reservoir size: 1.5 MAF
  - Federal investment: 91 TAF of CVP storage
  - State investment: 244 TAF of Prop 1
  - Modified WSIP diversion criteria (bypass criteria for Red Bluff, Hamilton City, Wilkins Slough; protection of pulse flows)
- Next steps: Review model results and refine operating criteria

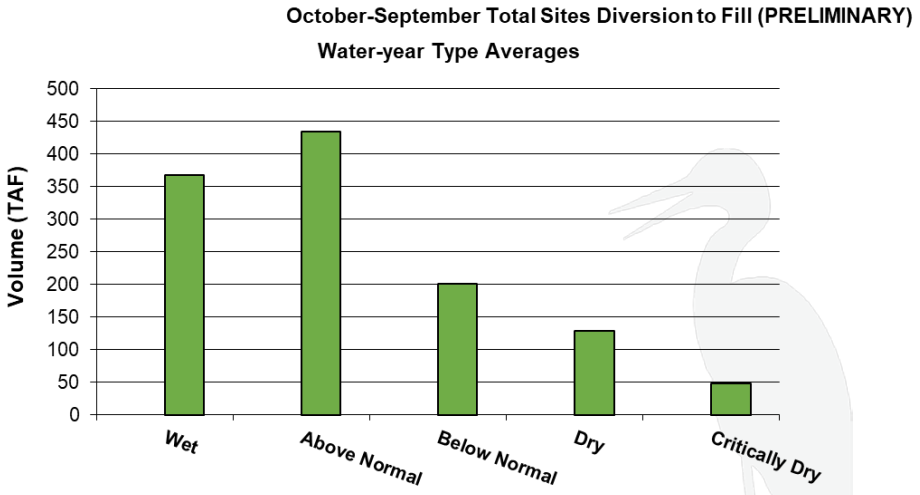
Sites Project Model Results

Results Summary

- Sites Diversions
- Sites Releases
- Sacramento River at Bend Bridge
- Sacramento River at Wilkins Slough
- Sacramento River downstream of Colusa Basin Drain
- Feather River at Mouth
- American River at H Street
- Sacramento River at Freeport
- Delta Outflow

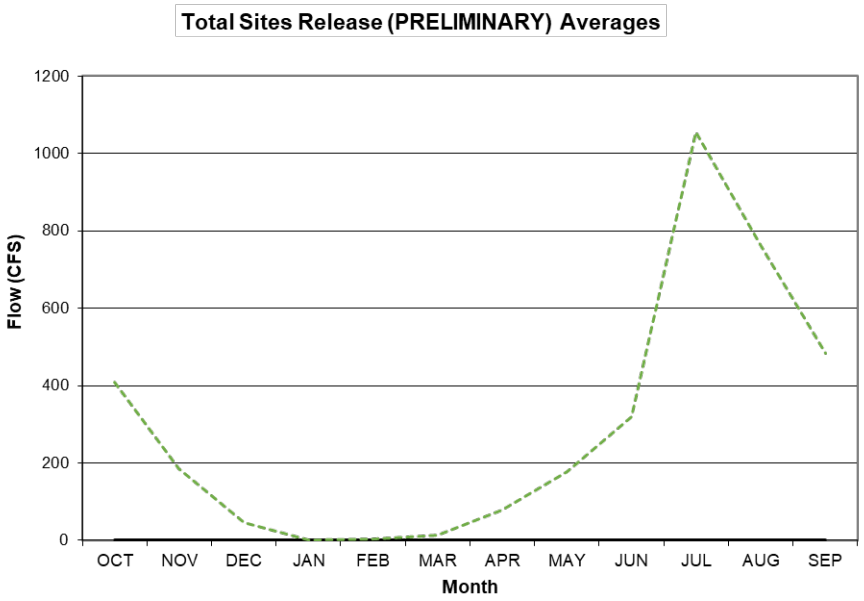
Sites Diversions

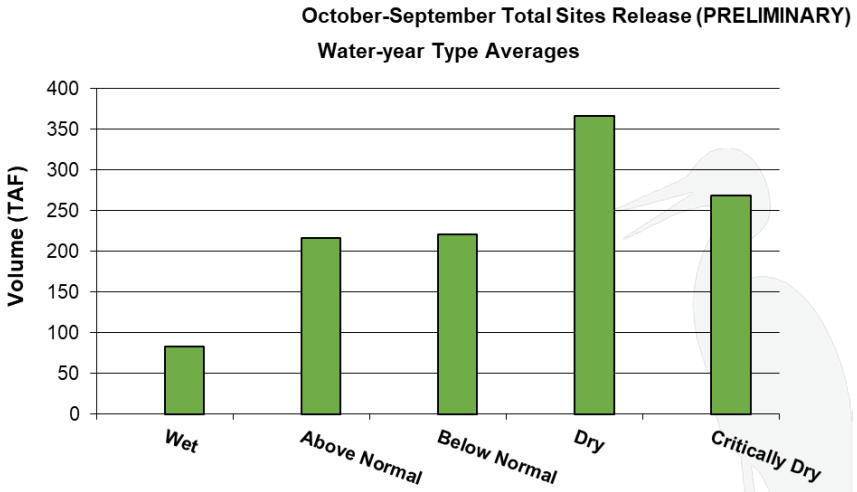




Output Parameter	Long-term Average (TAF)	Dry and Critical Average (TAF)
Diversions	244	97

Sites Releases

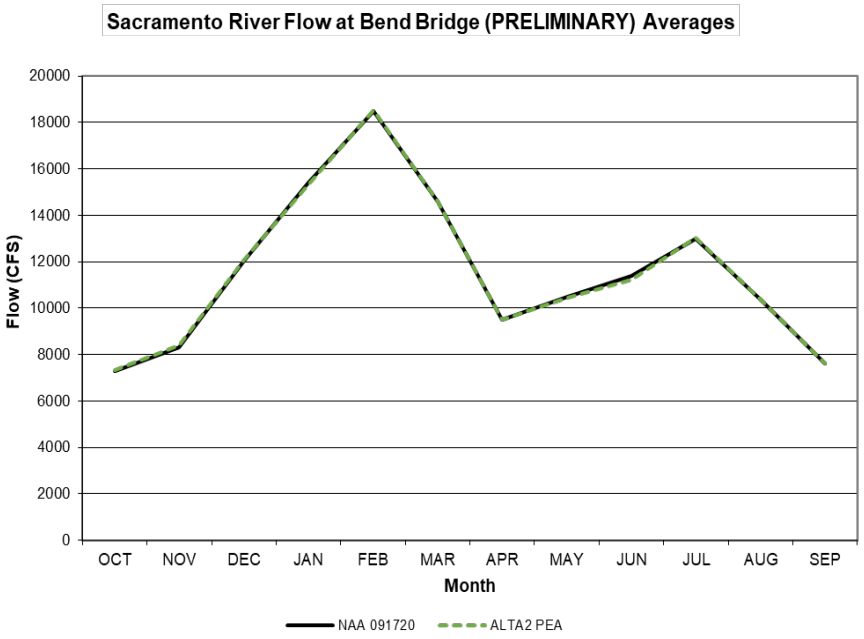


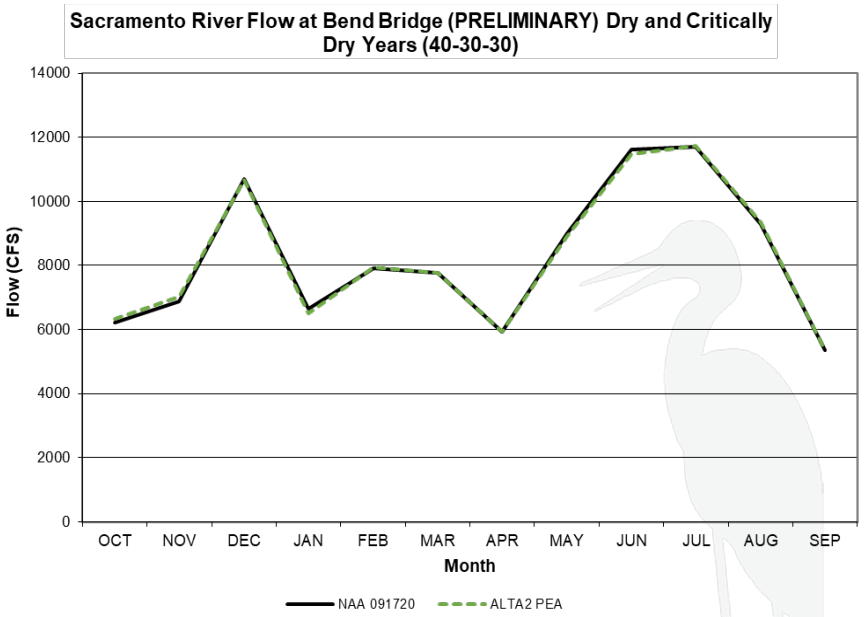


Output Parameter	Long-term Average (TAF)	Dry and Critical Average (TAF)[1]
Releases	216	337

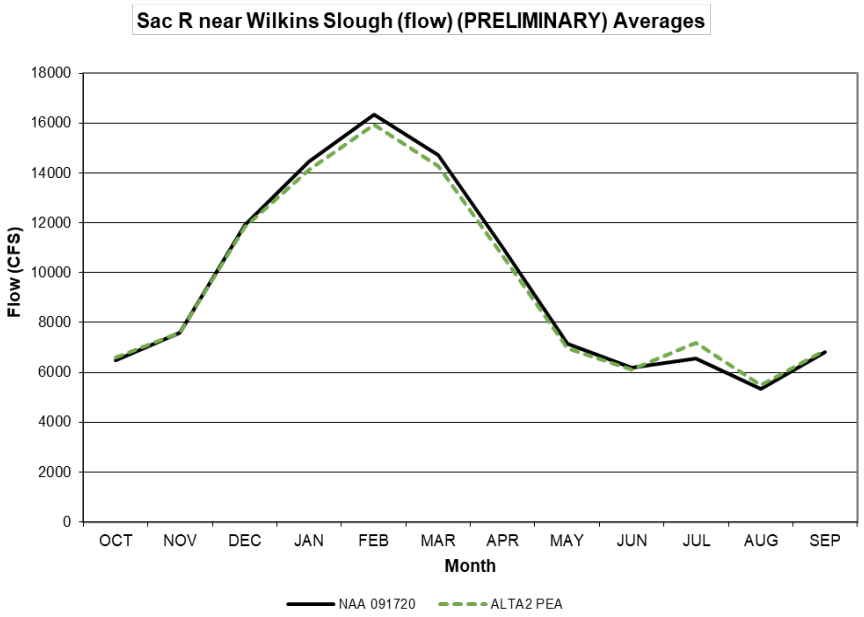
[1]Dry and Critically Dry releases are preliminary and subject to increase

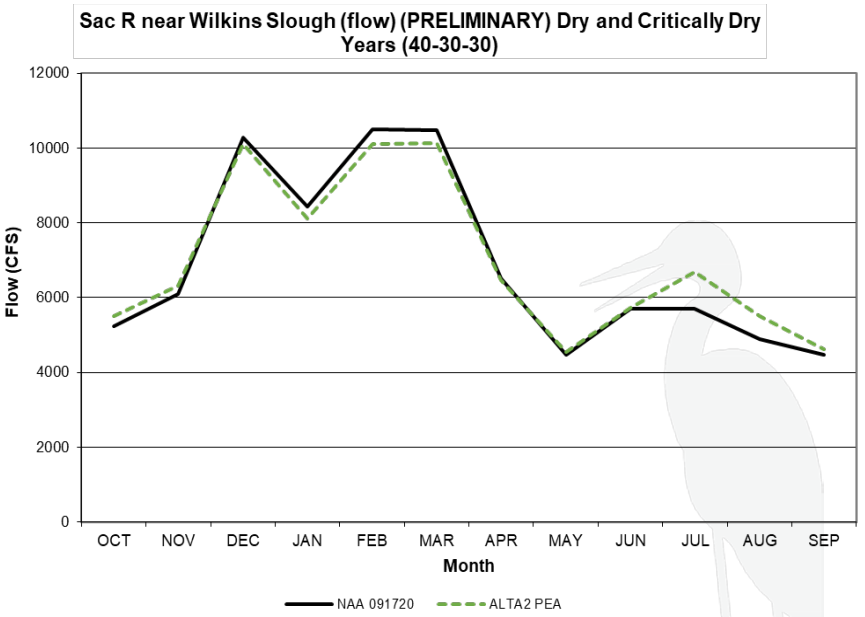
Sacramento River at Bend Bridge



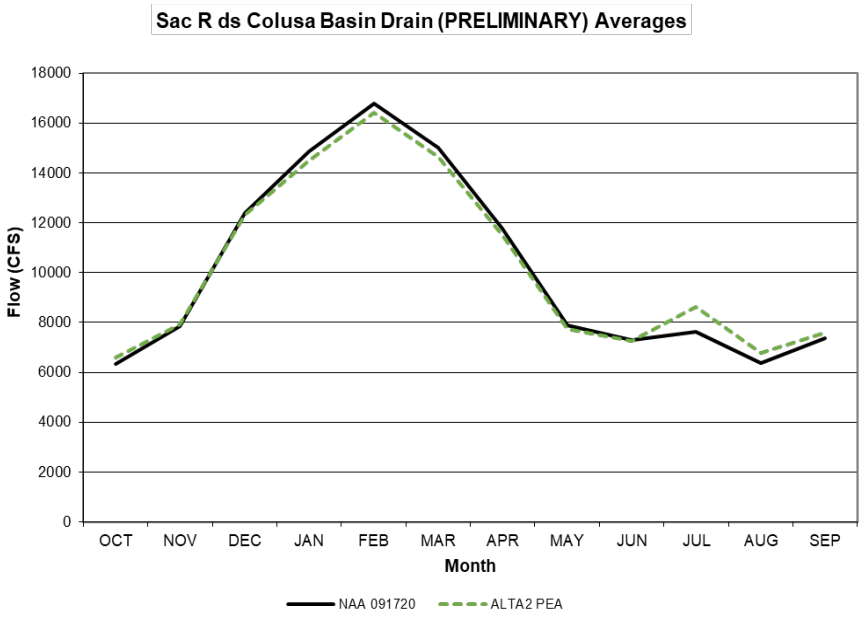


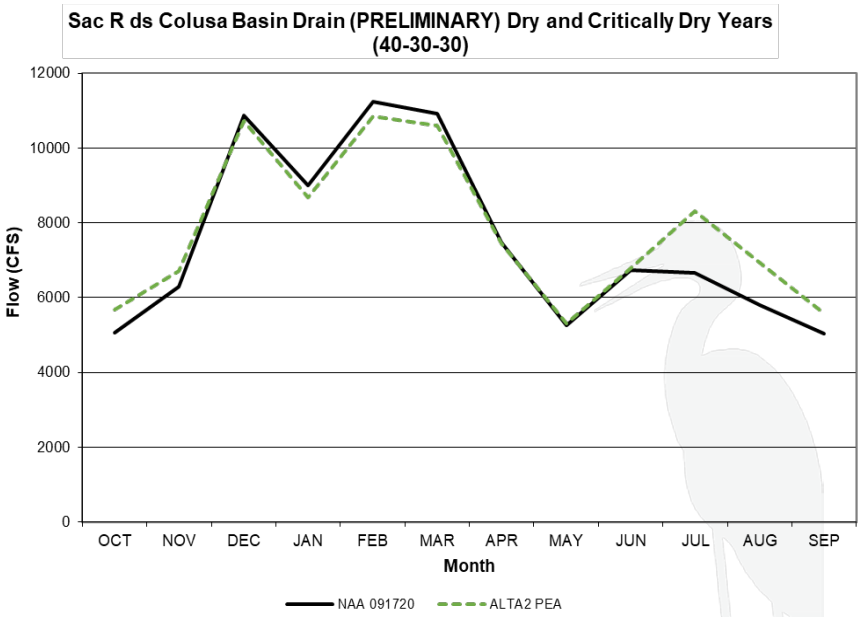
Sacramento River at Wilkins Slough



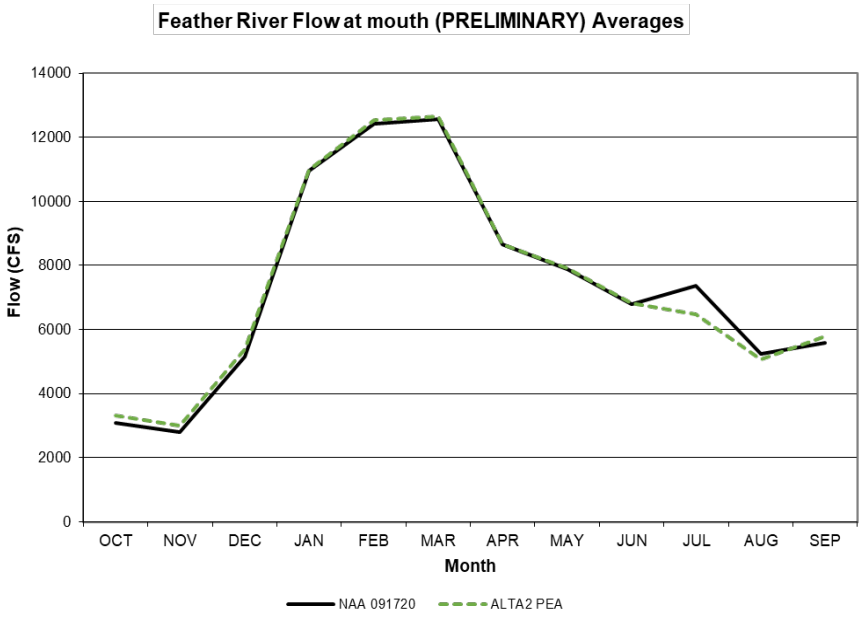


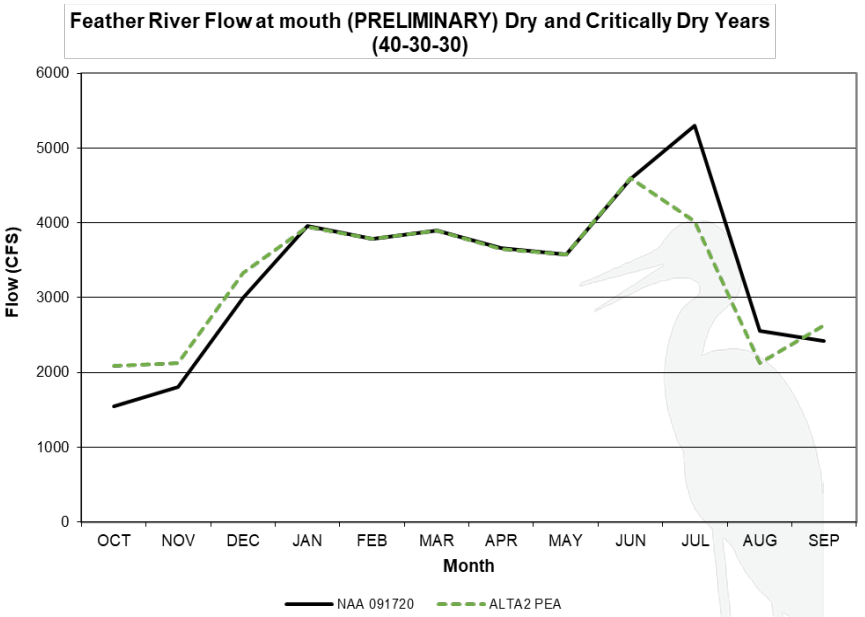
Sacramento River downstream of Colusa Basin Drain



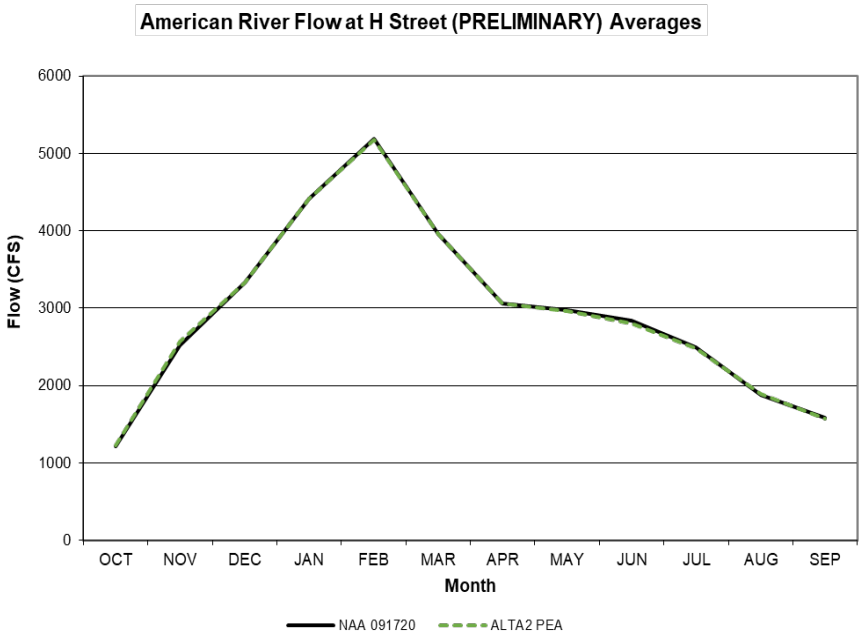


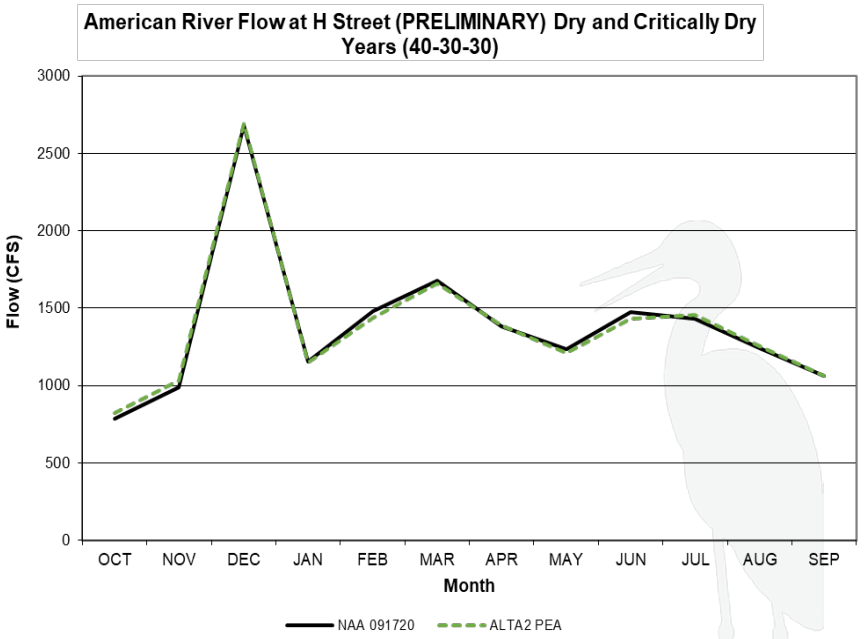
Feather River at Mouth



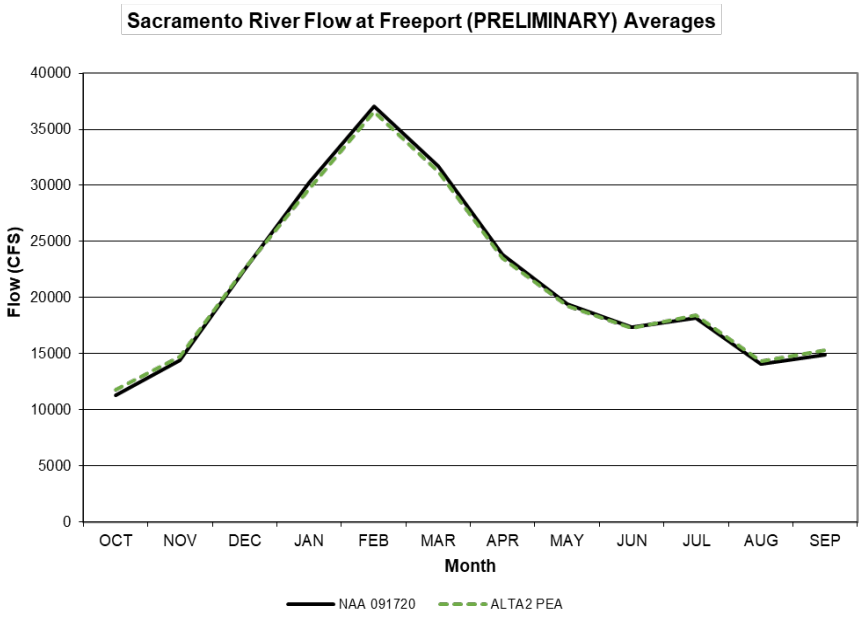


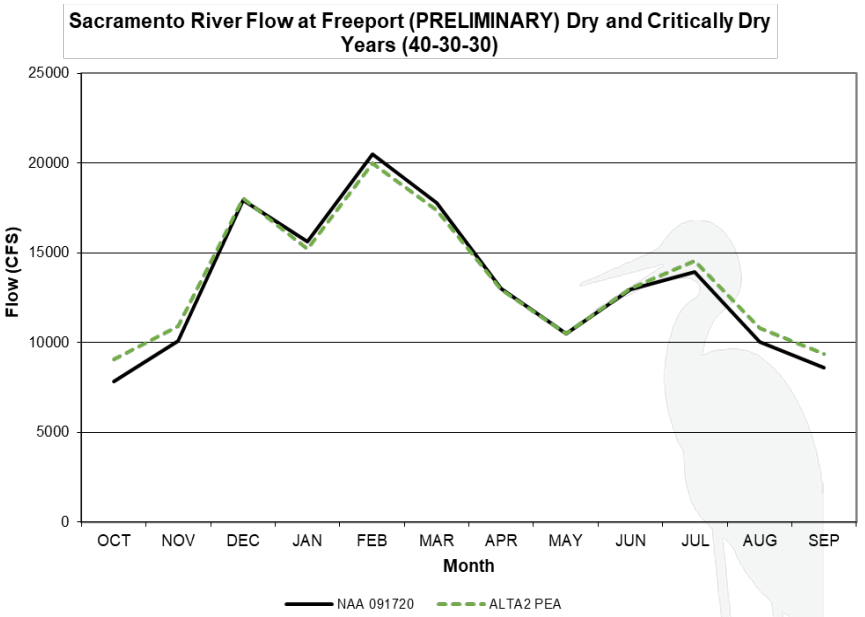
American River at H Street



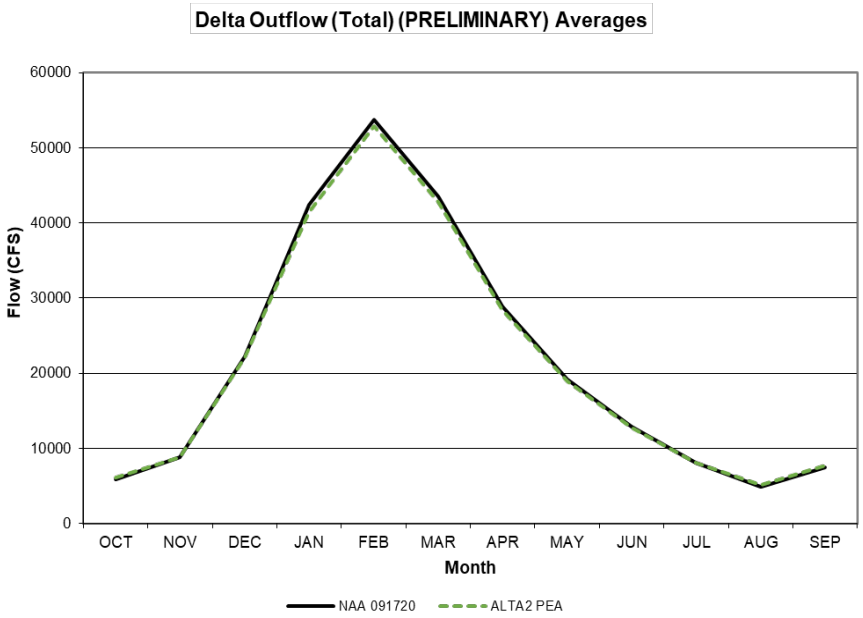


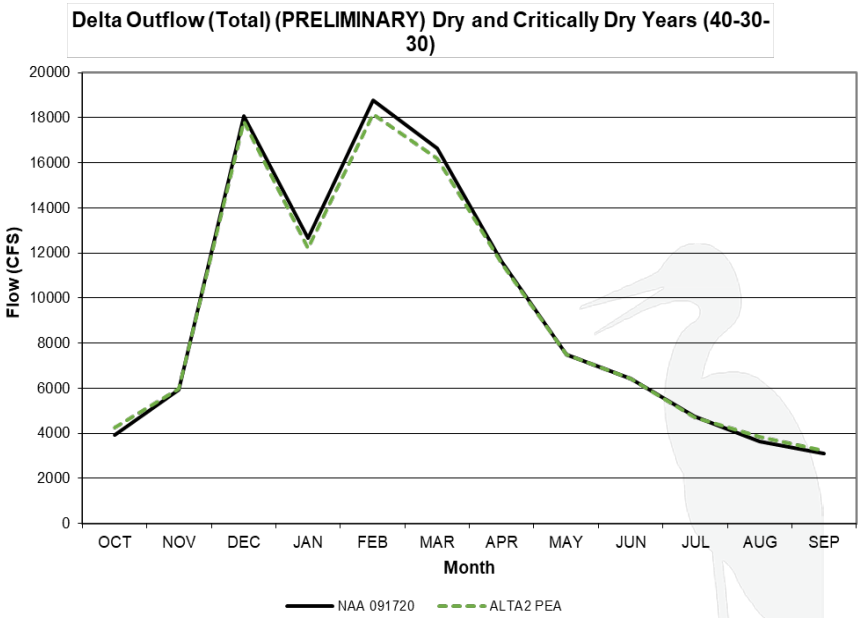
Sacramento River at Freeport





Delta Outflow





Questions?

Sites

END OF UPDATE MEETING

Sites