Restoration Administrator Flow Recommendation

To: Ali Forsythe, Chad Moore, Emily Thomas, Elizabeth Vasquez

CC: Michael Jackson, Rufino Gonzalez, Doug Obegi, Steve Ottemoeller, Jeff Payne, TAC

Date: February 1, 2018

From: Tom Johnson, Restoration Administrator

Subject: Updated Recommendations for 2017 Restoration Flows plus Recommendation for 2018

Restoration Flows

The following is a recommendation by the Restoration Administrator (RA) for 2018 Restoration Flows, pursuant to the December 2013 Restoration Flow Guidelines (RFG), as amended, and Exhibit B of the Settlement.

Background

I am in receipt of the Restoration Allocation dated January 23, 2018 which designates 2018 as a DRY Water Year Type and provides an allocation of Restoration Flows of 171,178 acre-feet as measured at Gravelly Ford. The Allocation also specifies certain contractual and operational constraints on flow releases for 2018.

Additional Considerations

In addition to receiving the Allocation and analyzing hydrologic conditions and forecasts, I have consulted with the Technical Advisory Committee (TAC), Reclamation, and the Settling Parties with regards to potential recommendations, operational and biological implications, and water supply impacts. Several considerations factored in the Restoration Flow recommendation.

- Since the date of the Allocation, additional discussions with SJRRP staff and TAC members, plus
 review of near- and intermediate term weather forecasts, all indicate the distinct possibility of a
 substantially lower Allocation in February as a result of continuing dry conditions and no
 substantial precipitation forecasted for the next two weeks. It is possible that, absent significant
 precipitation, that the February Allocation may be "Critical-High".
- The month of February is included in the 2017 Restoration Flow Year; thus flows in February are not dependent on Water Year 2018 hydrology. Remaining 2017 Restoration Year water includes Exhibit B base flows for February (approximately 14,161 AF at GRF), plus residual fall pulse water (approximately 4,200 AF at GRF).
- The SJRRP is undertaking rotary screw trap (RST) capture efficiency testing throughout February, and are interested in pulse flows to evaluate capture efficiency at different flow levels.

This Recommendation includes an update to the December 21, 2017 Recommendation that will pertain to the balance of Restoration Year 2017 (February 2018), plus a Recommendation for Restoration Year 2018.

Updated Recommendation for Balance of Restoration Year 2017 (February 2018)

I am updating the February 2018 Recommendation to re-deploy flows into pulses to facilitate the RST testing. The February recommendation deploys ONLY Restoration Year 2017 flows.

- On February 3rd, 2018, increase flow to the river from Millerton Dam by 150 cfs, timing of change at Dam Operators discretion.
- After 72 hours, return flow to the river to original base flow.
- The pulse flow created by this Feb 3rd increase may be recaptured at Mendota Pool.
- On February 14, 2018, decrease flow to the river from Millerton Dam to 350 cfs, timing of change at Dam Operators discretion.
- On February 20th, 2018, increase flow to the river from Millerton Dam to 500 cfs, timing of change at Dam Operators discretion.
- After 72 hours, return flow to the river to 350 cfs.
- The pulse flow created by this Feb 20th increase is intended to pass through Mendota Pool and past Sack Dam. Reclamation will need to coordinate the timing of appropriate release changes at Mendota Pool and Sack Dam with the operators of those facilities. The timing and magnitude of the recaptured Feb 3rd pulse will provide guidance as to the timing of required release changes.
- A 2017 Restoration Year Restoration Flow balance of approximately 2000 AF is anticipated at the end of February 2018. Reclamation should investigate the potential for a URF exchange for this 2017 residual amount, for repayment in early Restoration Year 2018.

Recommendation for Restoration Year 2017 (Commencing March 1, 2018)

For the 2018 Restoration Year commencing in March of 2018, I am recommending the default hydrograph as specified below. As mentioned previously, there is a high potential for a substantial change in the Restoration Allocation due to continuing dry hydrologic conditions. I intend to initiate discussions with the fisheries agencies and TAC in mid-February to evaluate alternatives for Restoration Flow releases under a "Critical-High" year type allocation, as it is likely that there will be additional information and data available at that time to better inform the discussion than what is available now. Since February 2018 Restoration Flows are provided for from the 2017 Restoration Year, and since any 2018 Restoration Year Recommendation is anticipated to change substantially from today based on the February Allocation, I am not investing any effort into a 2018 Restoration Allocation at this time.

Restoration Year 2018 — Default Hydrograph

| | | Flo | w (cfs) | | Volum | ne (TAF) |
|-----------------------------|-----------------------|-----------------------------------|-----------------------|-------------------------|-----------------------|-------------------------|
| Flow Period | Friant Dam Release | Holding Contracts ⁸ | Flow Target at GRF | Restoration Flow at GRF | Friant Dam Release | Restoration Flow at GRF |
| Mar 1 – Mar 15 | 500 | 130 | 375 | 370 | 14.876 | 11.008 |
| Mar 16 – Mar 31 | 1500 | 130 | 1375 | 1370 | 47.603 | 43.478 |
| Apr 1 – Apr 15 | 350 | 150 | 205 | 200 | 10.413 | 5.950 |
| Apr 16 – Apr 30 | 350 | 150 | 205 | 200 | 10.413 | 5.950 |
| May 1 – Jun 30 ⁹ | 333 | 190 | 148 | 143 | 40.250 | 17.261 |
| Jul 1 – Aug 31 | 260 | 230 | 35 | 30 | 31.974 | 3.689 |
| Sep 1 – Sep 30 | 350 | 210 | 145 | 140 | 20.826 | 8.331 |
| Oct 1 – Oct 31 | 350 | 160 | 195 | 190 | 21.521 | 11.683 |
| Nov 1 – Nov 6 | 700 | 130 | 575 | 570 | 8.331 | 6.783 |
| Nov 7 – Nov 10 | 700 | 130 | 575 | 570 | 5.554 | 4.522 |
| Nov 11 – Dec 31 | 350 | 120 | 235 | 230 | 35.405 | 23.266 |
| Jan 1 – Feb 28 | 350 | 100 | 255 | 250 | 40.959 | 29.256 |
| | | | | Totals | 288.124 | 171.178 |

Additional Consultation

I will continue to coordinate with the TAC, Program Office, and technical study leads to monitor hydrologic conditions, fishery conditions, flood control releases, operational conditions, and other factors. I look forward to Reclamation's additional Restoration Flow allocations, and forthcoming Restoration Year.

| | | | Current Recommendation (21 Dec 2017) | .7) | |
|-----------|-------------|------------|--------------------------------------|----------|------------|
| | | | Expected | | Remaining |
| | Friant | | Recapture | | Allocation |
| | Release | | ම | | (16.888 |
| | (Base, | GRF | Mendota | Sack Dam | @12am |
| Date | Target) cfs | Target cfs | Pool | Target | 2/1) |
| 1-Feb-18 | 415 | 270 | 0 | 180 | 16.362 |
| 2-Feb-18 | 415 | 270 | 0 | 180 | 15.837 |
| 3-Feb-18 | 415 | 270 | 0 | 180 | 15.311 |
| 4-Feb-18 | 415 | 270 | 0 | 180 | 14.785 |
| 5-Feb-18 | 415 | 270 | 0 | 180 | 14.260 |
| 6-Feb-18 | 415 | 270 | 0 | 180 | 13.734 |
| 7-Feb-18 | 415 | 270 | 0 | 180 | 13.209 |
| 8-Feb-18 | 415 | 270 | 0 | 180 | 12.683 |
| 9-Feb-18 | 415 | 270 | 0 | 180 | 12.157 |
| 10-Feb-18 | 415 | 270 | 0 | 180 | 11.632 |
| 11-Feb-18 | 415 | 270 | | 180 | 11.106 |
| 12-Feb-18 | 415 | 270 | 0 | | |
| 13-Feb-18 | 415 | 270 | 0 | 180 | 10.055 |
| 14-Feb-18 | 425 | 280 | 0 | 190 | 9.509 |
| 15-Feb-18 | 425 | 280 | 0 | 190 | 8.964 |
| 16-Feb-18 | 425 | 280 | | | |
| 17-Feb-18 | 425 | 280 | 0 | 190 | 7.873 |
| 18-Feb-18 | 425 | 280 | 0 | 190 | 7.328 |
| 19-Feb-18 | 425 | 280 | 0 | 190 | 6.782 |
| 20-Feb-18 | 425 | 280 | 0 | 190 | 6.237 |
| 21-Feb-18 | 425 | 280 | 0 | 190 | 5.691 |
| 22-Feb-18 | 425 | 280 | 0 | 190 | 5.146 |
| 23-Feb-18 | 425 | 280 | 0 | 190 | 4.600 |
| 24-Feb-18 | 425 | 280 | 0 | 190 | 4.055 |
| 25-Feb-18 | 425 | 280 | 0 | 190 | 3.509 |
| 26-Feb-18 | 425 | 280 | 0 | 190 | 2.964 |
| 27-Feb-18 | 425 | 280 | | 190 | 2.418 |
| 28-Feb-18 | 425 | 280 | 0 | 190 | 1.873 |
| 1-Mar-18 | | | | | |
| 2-Mar-18 | | | | | |
| 3-Mar-18 | | | | | |
| 4-Mar-18 | | | | | |
| 5-Mar-18 | | | | | |
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| Expected Recapture Sack Di Recapture Sack Di Cfs Pool Cfs 13 day lag) Mendota (5 day of section o | Œ. | tevised (Pulse) | Revised (Pulse Flow) Recommendation (Pulse Flows for Eff Test) | ommendat :ff Test) | tion |
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