

1 May 1, 2011

2 Allocation and Default Flow Schedule

3 *San Joaquin River Restoration Program*

4 The following text transmits a default flow schedule to the Restoration Administrator for the San
5 Joaquin River Restoration Program (SJRRP). The default flow schedule provides:

- 6 • Forecast Unimpaired Runoff: estimated flows that would occur absent regulation on the river.
- 7 • Exhibit B Interim Flow Schedule: the flow schedule absent changes due to the exercise of flexible
8 flow provisions.
- 9 • Releases to Date: the volume of water passing Gravelly Ford as a result of the SJRRP in excess of
10 riparian holding contract requirements.
- 11 • Remaining Flexible Flow Volume: remaining volume of water available for scheduling.
- 12 • Default Flow Schedule: releases in the absence of a Restoration Administrator recommendation
13 consistent with the Settlement and operating guidelines.
- 14 • Operational Constraints: flow release limitations based on downstream channel capacity,
15 regulatory, or legal constraints.

16 The Restoration Administrator shall make recommendations to the Secretary of the Interior
17 concerning the manner in which the hydrographs shall be implemented. The Restoration Administrator
18 is requested to recommend a flow schedule showing the use of the entire Annual Allocation during the
19 upcoming Restoration Year, and categorize all recommended flows by account (e.g., shifts in the Default
20 Flow Schedule, Buffer Flow releases).

21 **Forecast Unimpaired Runoff**

22 Unimpaired runoff represents the natural water production of a river basin, unaltered by upstream
23 diversions, storage, or by export or import of water to or from other watersheds. The forecast of the
24 unimpaired runoff to determines the potential river release requirements for the SJRRP. Information for
25 forecasting the unimpaired runoff includes:

- 26 • The Daily CVP Water Supply Report, Accumulated Inflow to Date;
- 27 • The Department of Water Resources Water Supply Index forecast for San Joaquin River inflow to
28 Millerton Lake Unimpaired Flow;

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- 1 • The National Weather Service Forecast for the San Joaquin River at Millerton Lake;
- 2 The April 1, 2001 Forecast of Unimpaired Runoff (DWR Bulletin 120) shows a 90% probability of at
- 3 least 2,880 thousand acre-feet, resulting in a Wet-Year hydrograph for the SJRRP.

4 **Exhibit B Interim Flow Schedule**

5 Table 1 shows the flow schedule from Exhibit B, channel capacity constraints, and the resulting
 6 truncated volumes during the Interim Flow period.

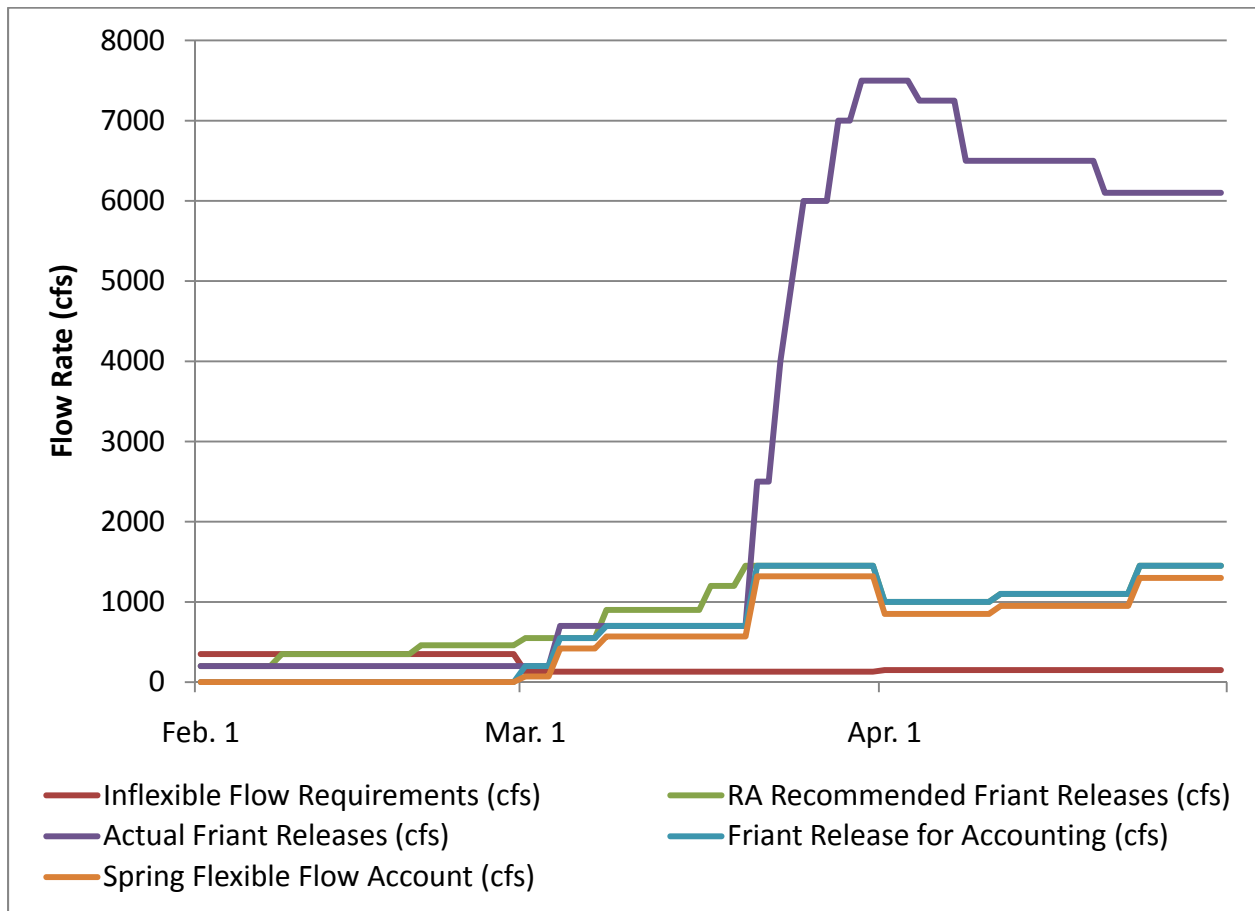
7 **Table 1 – Exhibit B Flow Schedules and Flexible Flow Volumes**

Schedule Start	Friant Restoration Exhibit B (cfs)	Friant Capacity Constraint (cfs)	Friant Interim Exhibit B (cfs)	Gravelly Ford Interim Exhibit B (cfs)	Assumed Riparian Demand (cfs)	Spring Flexible Flow (af)	Fall Flexible Flow (af)	Riparian Recruitment Flow (af)
Mar. 1	500	1600	500	375	130	11,008		
Mar. 16	1500	1600	1500	1375	130	43,478		
Apr. 1	2500	1600	1600	1475	150	43,140		
Apr. 16	4000	1600	1600	1475	150	43,140		
May. 1	2000	1600	1600	1475	190			170,598
Jul. 1	350	1600	350	125	230			
Sep. 1	350	1600	350	145	210			
Oct. 1	350	1600	350	195	160			
Nov. 1	700	1600	700	575	120		6,902	
Nov. 7	700	1600	700	575	120		4,602	
Nov. 11	350	1600	350	235	120			
Jan. 1	350	1600	350	255	100			
Feb. 1	350	1600	350	255	100			
					Total	140,767	11,504	170,598

1 **Releases to Date**

2 Figure 1 shows the components in accounting for releases within the Spring Flexible flow period.
 3 The inflexible flow requirement shows releases the RA cannot reschedule under the flexible flow
 4 provisions of the Settlement and includes the winder base flow requirement in February and the
 5 riparian holding contract demands in March and April. The Friant release for accounting includes the
 6 lesser of actual Friant Dam releases and the Restoration Administrators recommended flow schedule
 7 when releases exceed the inflexible flow requirements. The estimated total volume of flexible flows
 8 released through the end of April is 107,345 acre-feet.

9 **Figure 1 – Friant Release Accounting**



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11 **Remaining Flexible Flow Volume**

12 The amount of water remaining for flexible flow scheduling is the volume of flexible flow water in
 13 excess of releases required to meet riparian demands less the past releases. Table 2 shows the
 14 estimated remaining volume.

1 **Table 2 – Estimated Flexible Flow Volume Remaining after April 30th**

Flexible Flow Volume (af)	140,767
-Flexible Flow Releases to Data (af)	-107,345
Remaining Flexible Flow Volume (af)	33,421

2 **Default Flow Schedule**

3 The default flow schedule identifies how Reclamation will schedule the remaining allocation in the
 4 absence of a recommendation from the Restoration Administrator consistent with the Settlement.
 5 Reclamation will schedule the remaining volume according to Method gamma described in the
 6 Restoration Flow Guidelines and add water to the end of the spring pulse. With an assumed riparian
 7 demand requirement of 190 cfs, Reclamation will schedule a 1600 cfs of Interim Flows through May 11th.
 8 Riparian Recruitment flows begin on May 12th for a duration of 61 days, Table 3.

9 **Table 3 – Default Flow Schedule**

May 1 - May 11	1600 cfs
May 12 - July 11	1600 cfs
July 12 – Sept. 30	350 cfs

10 **Operational Constraints**

11 Seepage management constraints may limit the release of Interim Flows below Mendota Dam. The
 12 real-time demands at Mendota Pool will limit the ability to recapture water upstream of seepage
 13 constraints and may restrict releases from Friant Dam. Reclamation will coordinate with the Restoration
 14 Administrator through the weekly Flow Scheduling Subgroup conference calls and on an as needed
 15 basis. The March 3rd memo precludes rescheduling water away from time periods where flood releases
 16 exceed the flow schedule.