

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 2/21/2024
 Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	78.6
N2	Total SAR Deliveries	78.6
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	60.7
G2	North Fork Canal Weir	0.8
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	17.1
	Other	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	15.7
U3	Total MC Deliveries	15.7
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	1.0
T3	MC #1 Flow (Cooley Hat)	15.7

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	34.9
V	Total SWP Deliveries	34.9
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Reservoir Levels	Feet
Observation at SOD	2208.1
Crafton Reservoir Level (21.3)	15.0
Mentone Reservoir Level	17.4

River Recharge	AF
Estimate SAR Recharge (AF)	0
Estimate Mill Creek Recharge (AF)	84
Estimated Total River Recharge (AF)	84

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	12,456	176,000
Santa Ana River to Mill Creek	SAR-MC	161	0
Santa Ana River to Mill Creek	SWP	1,696	0
Santa Ana River	SWP	6,045	0
Mill Creek	MC	1,495	1,068
Mill Creek	SWP	8,138	0
Plunge Creek	PLC	522	0

Notes: Numbers on the Daily Flow Report are a snapshot of water at a given location at the time of the read, normally very early in the morning. Water in the Redlands Sandbox spill is coming from the Redlands Aqueduct.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	0.0	H	EVWD City Creek	4.9	M	Crafton Unger Lane	0.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0	N	BVMWC Boullioun Box	0.0	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	0.0	P	SARC West	0.0	U	M/C spreading at Zanja Tate	30.0
D	Purchased Water	34.9	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	34.9
F	Recharge Project	0.0									
G	Total SWP Inflows	34.9									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	0.8	A2	Newport	0.0	D1	BVMWC River PU (USGS)	30.1	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	48.5	B1	BVMWC Highline	0.0
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun Box to Zanja	0.0	minus		C1	Greenspot Pipeline	0.0	
K2	Northfork Parshall Flume	12.2	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	30.1
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	78.6	E1	Main River Gage (USGS)	48.5
W1	Redlands Aqueduct / Sandbox	7.5	Other					D1a	BV Pick-Up gated	-	
Y1	Redlands Sandbox Spill	10.4	J1	Big Bear Lake Release	1.0	w	Observation at SOD	2208.1	A5	Total SAR Inflows	78.6
Minus			L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2202.7	Edison Generation		
D1	BVMWC River PU (USGS)	30.1	X1	SAR-MC Spread (Red. Aqueduct)	1.0	y	Debris Pool Elevation	N/A	SAR PH#1 Generating		
I1	Redlands Tunnel	0.8							SAR PH#3 Generating		
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH3# Penstock (SCADA)	0.0									

Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall Flume To Basins		Deliveries					
M1	Redlands sand box	0.0	G2	Northfork Canal Weir	0.8	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	12.2	W1	Redlands Aqueduct / Sandbox	7.5
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	48.5	Y1	Redlands Sandbox Spill	10.4
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	12.2	Sedimentation Basin Recharge		0.0	Z2	Cuttle Weir To River	-
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	13.0	L2	SBVWCD Parshall Flume	60.7	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0	Irrigation					C1	Greenspot Pipeline	0.0	
S1	Tres Lagos	0.0	D2	Boullioun Box Weir	0.0	Parshall Flume (SCADA)		65.7	I2	Tailrace Pipeline	13.0
T1	Tate Pump Station to Zanja	0.0	R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	60.7
C1	Greenspot Pipeline	0.0	N	BVMWC Boullioun Box	0.0				L2	Sedimentation Recharge	0.0
			minus					minus			
			B2	Gay Overflow	0.0				J2	Tailrace Valve to Parshall Flume	0.0
			C2	Irrigation	0.0				K2	Northfork Parshall Flume	12.2
									I1	Redlands Tunnel	0.8
									N2	Total SAR Deliveries	78.6

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	15.7
B3	M/C #3 Penstock	15.7	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	225.0
D3	Total MC Inflows	15.7			

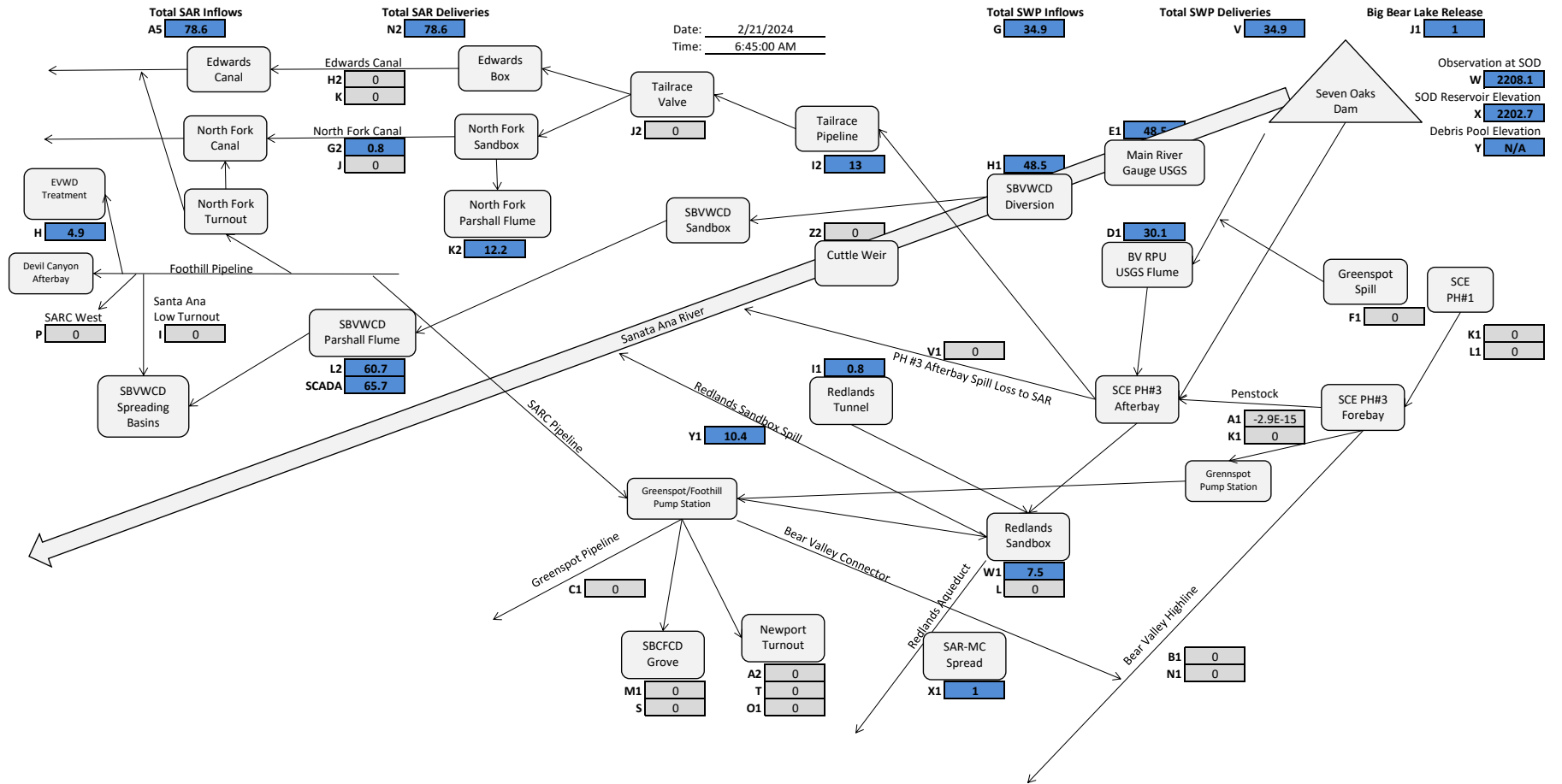
Mill Creek Deliveries

Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
H3	Yucaipa Regional Park	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	17.4
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	14.5	T3	Mill Creek #1 Flow (Cooley Hat)	15.7	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.2	U3	Total MC Deliveries	15.7	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	15.7				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	16.9				Y3	Crafton Reservoir Level (21.3)	15.0
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	0.0									
L3	East Weir Recharge (MC)	0.0									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	1.0									
O3	SBVWCD MC Spreading	1.0									

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	125.6	I4	12,456.3	176,000	I4	4,846.0	176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	2.4	O4	161.1		O4	154.6		
	Santa Ana Rvr to Mill Creek	SWP		0.0		1,695.9			286.5		
B4	Santa Ana River	SWP	F4	0.0	J4	6,044.6		J4	2,714.6		
C4	Mill Creek	MC	G4	0.0	K4	1,495.4	1,068	K4	1,286.4	106,000	
D4	Mill Creek	SWP	H4	59.5	L4	8,138.2		L4	2,508.5		
	Plunge Creek	PLC		40.1		522.3			500.6		
	SAR Passing Cuttle Weir (cfs)	0		Share of Lost SAR Flow	0		Estimate SAR flow (cfs)	0		Estimate SAR Recharge (AF)	0
	Mill Creek Passing Garnet (cfs)	225		Share of Lost Mill Creek Flow	200		Estimate Mill Creek flow (cfs)	25		Estimate Mill Creek Recharge (AF)	84
	Flow in the River Above Alabama	225		Flowing Beyond Alabama	200		Total River Flow (cfs)	25		Total River Recharge (AF)	84

Santa Ana River - Mill Creek Cooperative Water Project Santa Ana Stations



Observation at SOD
W **2208.1**
SOD Reservoir Elevation
X **2202.7**
Debris Pool Elevation
Y **N/A**