

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 5/1/2024

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	190.0
N2	Total SAR Deliveries	190.0
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	63.4
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	14.8
V1/Z2	Cuttle Weir and PH3 Afterbay	86.8

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	5.0
V	Total SWP Deliveries	5.0
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	47.7
U3	Total MC Deliveries	47.7
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	44.0
T3	MC #1 Flow (Cooley Hat)	11.5

Reservoir Levels	Feet
Observation at SOD	2187.1
Crafton Reservoir Level (21.3)	15.7
Mentone Reservoir Level	17.5

River Recharge	AF
Estimate SAR Recharge (AF)	21
Estimate Mill Creek Recharge (AF)	9
Estimated Total River Recharge (AF)	30

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	22,140	176,000
Santa Ana River to Mill Creek	SAR-MC	332	0
Santa Ana River to Mill Creek	SWP	1,696	0
Santa Ana River	SWP	6,045	0
Mill Creek	MC	6,303	1,068
Mill Creek	SWP	8,999	0
Plunge Creek	PLC	1,084	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	0.0	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	3.9	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	0.0
D	Purchased Water	5.0	K	Edwards Canal	0.0	Q	Zanja	0.0	W	Tres Lagos	1.1
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries	5.0
F	Recharge Project	0.0									
G	Total SWP Inflows	5.0									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	0.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	30.0	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	160.0	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	12.4	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	30.0
V1	PH#3 Afterbay Spill/Loss to SAR	2.8	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	190.0	E1	Main River Gage (USGS)	160.0
W1	Redlands Aqueduct / Sandbox	12.8							D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	3.0							A5	Total SAR Inflows	190.0
Minus			Other						Edison Generation		
D1	BVMWC River PU (USGS)	30.0	J1	Big Bear Lake Release	0.4	W	Observation at SOD	2187.1	SAR PH#1 Generating		
I1	Redlands Tunnel	1.0	L1	SCE SAR AVM (SCADA)	0.0	X	SOD Reservoir Elevation (scada)	2187.0	SAR PH#3 Generating		
A1	SAR PH #3 Penstock (calc)	0.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	N/A			
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	0.0	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	2.8
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.0	K2	Northfork Parshall Flume	12.4	W1	Redlands Aqueduct / Sandbox	12.8
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	76.0	Y1	Redlands Sandbox Spill	3.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	12.4				Z2	Cuttle Weir To River	84.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	12.4		Sedimentation Basin Recharge	25.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0				L2	SBVWCD Parshall Flume	63.4	C1	Greenspot Pipeline	0.0
S1	Tres Lagos	0.0	Irrigation				Parshall Flume (SCADA)	63.0	I2	Tailrace Pipeline	12.4
T1	Tate Pump Station to Zanja	0.0	D2	Boullioun Box Weir	0.0				L2	SBVWCD Parshall Flume	63.4
C1	Greenspot Pipeline	0.0	R1	BVMWC Highline to Boullioun	0.0				L2	Sedimentation Recharge	25.0
			N	BVMWC Boullioun Box	3.9				minus		
			minus						J2	Tailrace Valve to Parshall Flume	0.0
			B2	Gay Overflow	2.5				K2	Northfork Parshall Flume	12.4
			C2	Irrigation	1.4				I1	Redlands Tunnel	1.0
									N2	Total SAR Deliveries	190.0

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	11.5
B3	M/C #3 Penstock	11.5	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	36.2	G3	Observation at Garnet	30.0
D3	Total MC Inflows	47.7			

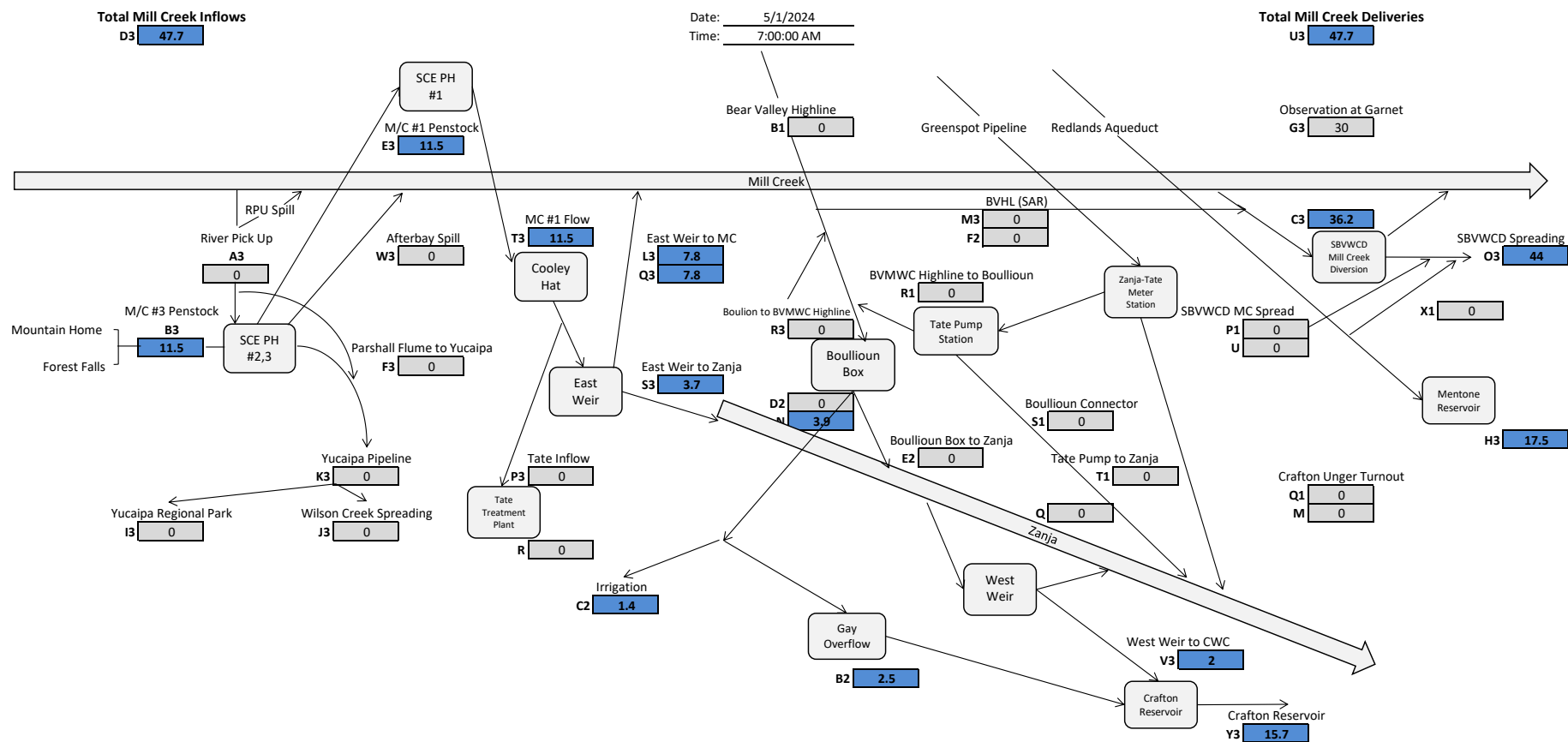
Mill Creek Deliveries

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	36.2	H3	Mentone Reservoir Level	17.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	7.8	T3	Mill Creek #1 Flow (Cooley Hat)	11.5	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	3.7	U3	Total MC Deliveries	47.7	V3	Zanja West Weir to CWC Canal	2.0
			T3	MC #1 Flow (Cooley Hat)	11.5				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	11.5				Y3	Crafton Reservoir Level (21.3)	15.7
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	36.2									
L3	East Weir Recharge (MC)	7.8									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	0.0									
O3	SBVWCD MC Spreading	44.0									

SBVWCD Recharge

Location		Type	Previous Day (AF)			WY To Date (AF)			Target	Calendar Year To Date (AF)			Target	
A4	Santa Ana River	SAR	E4	109.0		I4	22,139.6		176,000	I4	14,529.2		176,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0		O4	332.4			O4	325.9			
	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	69.1		K4	6,303.3	1,068		K4	6,094.3	106,000		
D4	Mill Creek	SWP	H4	12.4		L4	8,999.2			L4	3,369.5			
	Plunge Creek	PLC		4.0			1,083.6				1,062.0			
SAR Passing Cuttle Weir (cfs)		84	Share of Lost SAR Flow			66.316	Estimate SAR flow (cfs)			18	Estimate SAR Recharge (AF)			21
Mill Creek Passing Garnet (cfs)		30	Share of Lost Mill Creek Flow			24	Estimate Mill Creek flow (cfs)			6	Estimate Mill Creek Recharge (AF)			9
Flow in the River Above Alabama		114	Flowing Beyond Alabama			90	Total River Flow (cfs)			24	Total River Recharge (AF)			30

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



Santa Ana Stations

