

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 5/17/2019

Time: 7:10:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	352.4
N2	Total SAR Deliveries	352.4
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	0.0
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	135.0
G2	North Fork Canal Weir	5.3
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	12.1
Z2	Cuttle Weir to River	200.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	50.6
U3	Total MC Deliveries	50.6
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	48.0
T3	MC #1 Flow (Cooley Hat)	21.3

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	40.4
V	Total SWP Deliveries	40.4
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	2275.4
Crafton Reservoir Level (21.3)	15.8
Mentone Reservoir Level	19.9

River Recharge	AF
Estimate SAR Recharge (AF)	482
Estimate Mill Creek Recharge (AF)	0
Estimated Total River Recharge (AF)	482

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	21,405	176,000
Santa Ana River to Mill Creek	SAR-MC	208	0
Santa Ana River	SWP	8,595	0
Mill Creek	MC	7,631	106,000
Mill Creek	SWP	4,515	0
Redlands	SWP	0	0
Loma Linda	SWP	0	0
East Valley	SWP	134	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, and not necessarily what is at that location throughout the day.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	4.0	H	EVWDC City Creek	6.0	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	4.0	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	30.4
D	Purchased Water	36.4	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	40.4
F	Recharge Project	0.0									
G	Total SWP Inflows	40.4									

Santa Ana River Inflows

SAR PH #3 Penstock (calc)		BVMWC Highline		SOD Release Subtotal		Total SAR Inflows					
G2	Northfork Canal Weir	5.3	A2	Newport	0.0	D1	BVMWC River PU (USGS)	17.4	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	0.0	E1	Main River Gage (USGS)	335.0	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	0.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	17.4
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	0.0	Z1	SOD Release Subtotal	352.4	E1	Main River Gage (USGS)	335.0
W1	Redlands Aqueduct / Sandbox	13.4							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.2	Other					A5	Total SAR Inflows	352.4	
minus			J1	Big Bear Lake Release	0.3	w	Observation at SOD	2275.4	Edison Generation		
D1	BVMWC River PU (USGS)	17.4	L1	SCE SAR AVM (SCADA)	0.0	x	SOD Reservoir Elevation (scada)	2275.8	SAR PH#1 Generating	☐	
I1	Redlands Tunnel	1.5	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#3 Generating	☐	
A1	SAR PH #3 Penstock (calc)	0.0									
K1	PH#3 Penstock (SCADA)	N/A									

Santa Ana River Deliveries

Greenspot Pipeline		Tailrace Pipeline		SBVWCD Parshall Flume To Basins		Deliveries					
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.3	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	0.0	W1	Redlands Aqueduct / Sandbox	13.4
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	135.0	Y1	Redlands Sandbox Spill	0.2
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	minus		Z2	Cuttle Weir To River	200.0	
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.3		Sedimentation Basin Recharge	0.0	B1	BVMWC Highline	0.0
R1	BVMWC Highline to Boullioun	0.0	Irrigation			L2	SBVWCD Parshall Flume	135.0	C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0	D2	Boullioun Box Weir	0.0		Parshall Flume (SCADA)	135.8	I2	Tailrace Pipeline	5.3
T1	Tate Pump Station to Zanja	0.0	N	BVMWC Boullioun Box	4.0				L2	SBVWCD Parshall Flume	135.0
C1	Greenspot Pipeline	0.0	minus					minus			
			B2	Gay Overflow	2.0				J2	Tailrace Valve to Parshall Flume	0.0
			C2	Irrigation	2.0				K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	1.5
									N2	Total SAR Deliveries	352.4

Mill Creek Inflows

Total MC Inflows		Other			
A3	RPU Flow	21.3	E3	M/C #1 Penstock Flow	21.3
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	29.3	G3	Observation at Garnet	0.0
D3	Total MC Inflows	50.6			

Mill Creek Deliveries

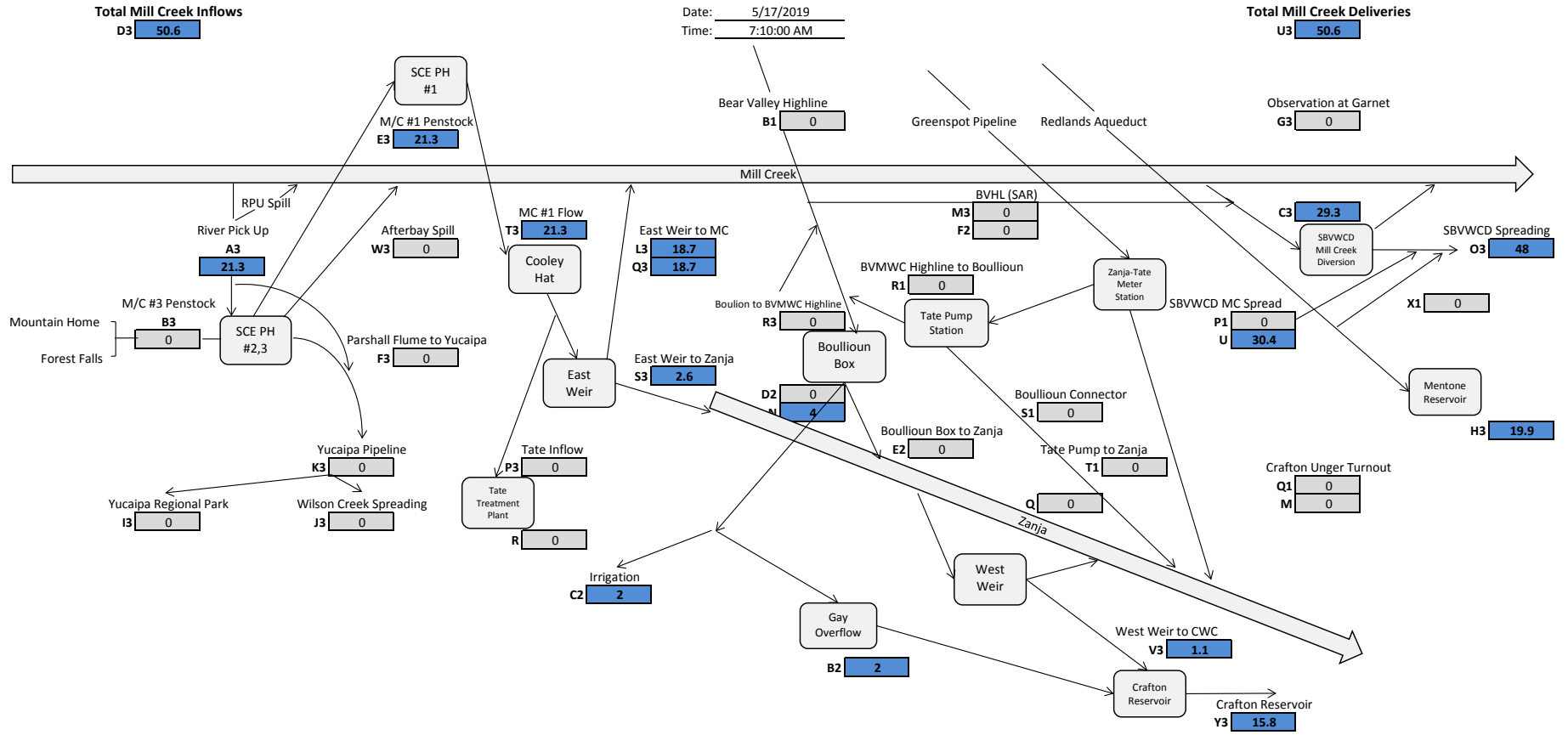
Yucaipa Pipeline		MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other					
J3	Wilson Creek Spreading	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	29.3	H3	Mentone Reservoir Level	19.9
K3	Yucaipa Pipeline	0.0	Q3	East Weir to Mill Creek	18.7	T3	Mill Creek #1 Flow (Cooley Hat)	21.3	R3	Boullioun to BVMWC Highline	0.0
			S3	East Weir to Zanja	2.6	U3	Total MC Deliveries	50.6	V3	Zanja West Weir to CWC Canal	1.1
			T3	MC #1 Flow (Cooley Hat)	21.3				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
			N3	Cooley Hat (SCADA)	23.0				Y3	Crafton Reservoir Level (21.3)	15.8
SBVWCD MC Spreading											
C3	SBVWCD Mill Creek Diversion	29.3									
L3	East Weir (MC)	18.7									
M3	BVHL (SAR)	0.0									
X1	SAR-MC Spread (Red. Aqueduct)	0.0									
O3	SBVWCD MC Spreading	48.0									

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	265.9	I4	21,405.3	176,000	I4	21,334.4	176,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	7.7	O4	208.2		O4	116.7	
B4	Santa Ana River	SWP	F4	0.0	J4	8,594.9		J4	7,579.7	
C4	Mill Creek	MC	G4	80.2	K4	7,631.1	106,000	K4	7,018.6	106,000
D4	Mill Creek	SWP	H4	57.5	L4	4,515.3		L4	4,515.3	
	Redlands	SWP		0.0		0.0			0.0	
	Loma Linda	SWP		0.0		0.0			0.0	
	East Valley	SWP		0.0		134.4			0.0	
SAR Passing Cuttle Weir (cfs)	200		Share of Lost SAR Flow	0	Estimate SAR flow (cfs)	0		Estimate SAR Recharge (AF)	482	
Mill Creek Passing Garnet (cfs)	0		Share of Lost Mill Creek Flow	0	Estimate Mill Creek flow (cfs)	0		Estimate Mill Creek Recharge (AF)	0	
Flow in the River Above Alabama	200		Flowing Beyond Alabama	80	Total River Flow (cfs)	0		Total River Recharge (AF)	482	

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Mill Creek Stations



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Santa Ana Stations

