

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 11/30/2017

Time: 6:35:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	20.2
N2	Total SAR Deliveries	20.2
A1	SAR PH#3 Penstock (calc)	12.7
B1	BVMWC Highline	5.7
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	0.0
G2	North Fork Canal Weir	7.9
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	6.6
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	25.5
V	Total SWP Deliveries	25.5
J	Northfork Canal	0.0
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	4.0
T	Newport to BVMWC	0.3

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	13.3
U3	Total MC Deliveries	13.3
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	13.3

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	18.8
Mentone Reservoir Level	19.7

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

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	0	166,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	4,939	0
Mill Creek	MC	0	99,700
Mill Creek	SWP	0	0
Redlands	SWP	0	0
Loma Linda	SWP	0	0
East Valley	SWP	0	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 thruout the day. San Bernardino Valley Municipal Water District is spreading at the Santa Ana Low.

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State Water Project											
Inflows			Deliveries								
A	BBMWD In-lieu	0.3	H	EVWD Treatment Plant	0.0	M	Crafton Unger Lane	4.0	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	21.2	N	BVMWC Boullioun Box	0.0	T	Newport for BVMWC	0.3
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	25.2	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 25.5	
F	Recharge Project	0.0									
G	Total SWP Inflows 25.5										

Santa Ana River Inflows												
SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows			
G2	Northfork Canal Weir	7.9	A2	Newport	0.0	D1	BVMWC River PU (USGS)	1.8	A1	SAR PH #3 Penstock (calc)	12.7	
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	5.7	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	5.7	
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)	1.8	
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	5.7	Z1	SOD Release Subtotal	1.8	E1	Main River Gage (USGS)	0.0	
W1	Redlands Aqueduct / Sandbox	6.7							D1a	BV Pick-Up gated	☐	
Y1	Redlands Sandbox Spill	0.2	Other						A5	Total SAR Inflows	20.2	
minus			J1	Big Bear Lake Release	1.2	w	Observation at SOD	N/A	Edison Generation			
D1	BVMWC River PU (USGS)	1.8	L1	SCE SAR AVM (SCADA)	20.0	x	SOD Reservoir Elevation (scada)	N/A	SAR PH#1 Generating			☐
I1	Redlands Tunnel	0.3	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	N/A	SAR PH#3 Generating			☒
A1	SAR PH #3 Penstock (calc)	12.7										
K1	PH3# Penstock (SCADA)	13.5										

Santa Ana River Deliveries											
Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	7.9	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	6.7
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.2
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	7.9		Parshall Flume (SCADA)	0.0	B1	BVMWC Highline	5.7
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	5.7	I2	Tailrace Pipeline	7.9
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	2.1	minus		
						C2	Irrigation	3.6	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	20.2

Mill Creek Inflows									
Total MC Inflows			Other						
A3	RPU Flow	4.8	E3	M/C #1 Penstock Flow	13.3				
B3	M/C #3 Penstock	8.5	F3	Stream Parshall Flume to Yucaipa	0.0				
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	0.0				
D3	Total MC Inflows	13.3							

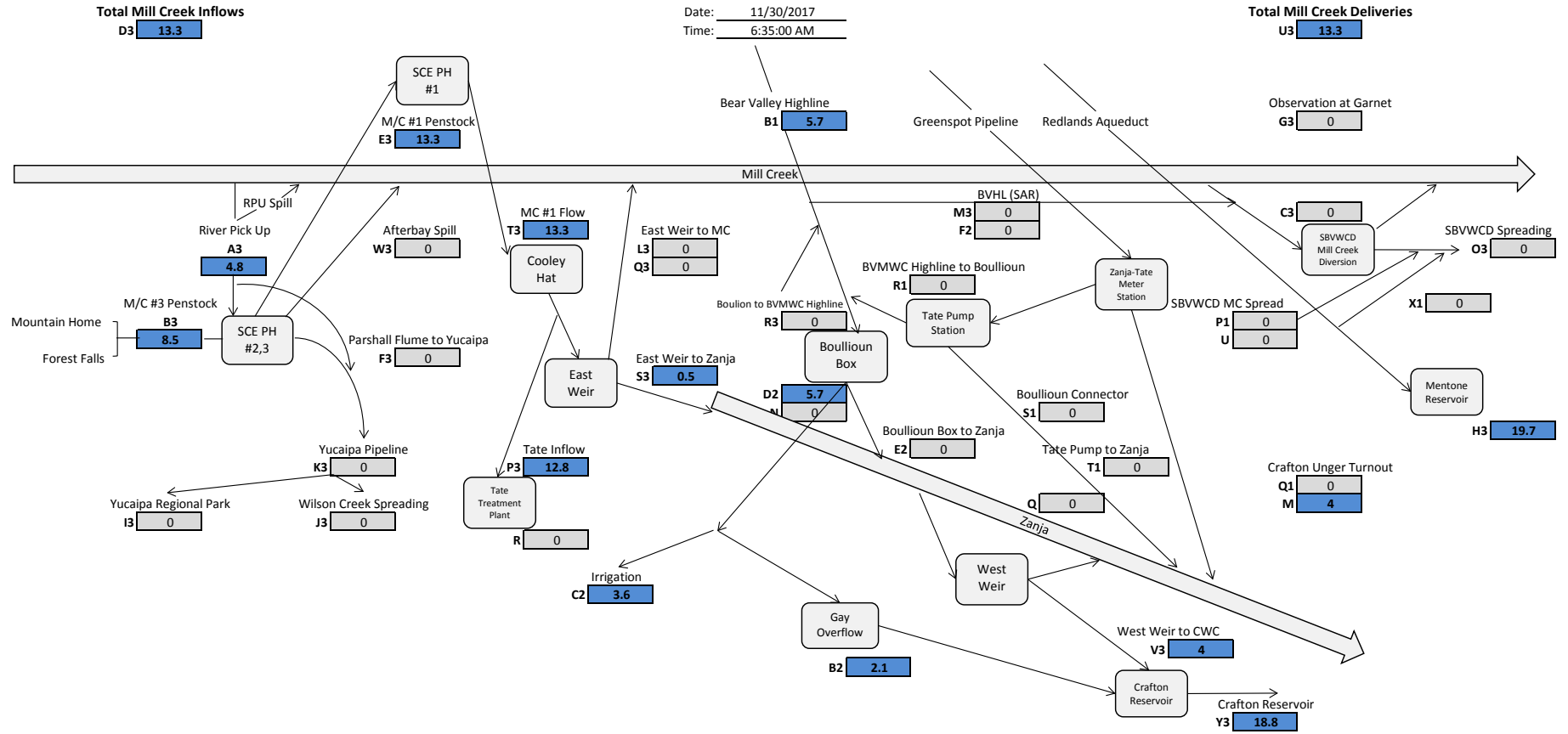
Mill Creek Deliveries											
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	12.8	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.7
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	13.3	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.5	W3	Mill Creek PH #2,3 Afterbay Spill	0.0	V3	Zanja West Weir to CWC Canal	4.0
			T3	MC #1 Flow (Cooley Hat)	13.3	U3	Total MC Deliveries	13.3	W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									Y3	Crafton Reservoir Level (21.3)	18.8

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
W3	Mill Creek PH #2,3 Afterbay Spill	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	0.0

SBVWCD Recharge											
Location		Type	Previous Day (AF)			WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0		I4	0.0	166,000	I4	18,559.6	166,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0		O4	0.0		O4	1,299.1	
B4	Santa Ana River	SWP	F4	42.0		J4	4,939.4		J4	17,656.5	
C4	Mill Creek	MC	G4	0.0		K4	0.0	99,700	K4	5,165.9	99,700
D4	Mill Creek	SWP	H4	0.0		L4	0.0		L4	2,896.9	
	Redlands	SWP		0.0			0.0			0.0	
	Loma Linda	SWP		0.0			0.0			1,939.8	
	East Valley	SWP		0.0			0.0			2,816.0	
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)		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		0	Flowing Beyond Alabama		0	Total River Flow (cfs)		0	Total River Recharge (AF)		0

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Mill Creek Stations



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

