

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 11/15/2016

Time: 6:40:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	16.3
N2	Total SAR Deliveries	16.3
A1	SAR PH#3 Penstock (calc)	6.6
B1	BVMWC Highline	6.6
C1	Greenspot Pipeline	0.0
L2	SBVWCD Parshall Flume	2.8
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	6.9
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	65.3
V	Total SWP Deliveries	65.3
J	Northfork Canal	12.6
L	Redlands Aqueduct	20.9
M	Crafton Unger Lane	4.4
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	5.6
U3	Total MC Deliveries	5.6
K3	Yucaipa Pipeline	0.0
O3	SBVWCD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	5.6

Reservoir Levels	Feet
Observation at SOD	N/A
Crafton Reservoir Level (21.3)	17.7
Mentone Reservoir Level	20.5

River Recharge	AF
Estimate SAR Recharge	0.0
Estimate Mill Creek Recharge	0.0
Total River Recharge	0.0

Location	Type	WY to Date (AF)	Target
Santa Ana River	SAR	294	123,000
Santa Ana River to Mill Creek	SAR-MC	17	0
Santa Ana River	SWP	0	0
Mill Creek	MC	32	73,800
Mill Creek	SWP	0	714
Redlands	SWP	3	0
Loma Linda	SWP	75	0
EV HQ	SWP	1,854	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.

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State Water Project

Inflows			Deliveries								
A	BBMWD In-lieu	29.0	H	EVWD Treatment Plant	0.0	M	Crafton Unger Lane	4.4	S	SBCFCD Grove	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	20.9	N	BVMWC Boullioun Box	0.0	T	Newport for BVMWC	0.0
C	Exchange Water	0.0	J	Northfork Canal	12.6	P	SARC West	0.0	U	M/C spreading at Zanja Tate	6.0
D	Purchased Water	36.3	K	Edwards Canal	0.0	Q	Zanja	0.0		Tres Lagos	0.5
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	20.9	R	Tate Treatment Plant	0.0	V	Total SWP Deliveries 65.3	
F	Recharge Project	0.0									
G	Total SWP Inflows	65.3									

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)	3.1	A1	SAR PH #3 Penstock (calc)	6.6
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	6.6	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	6.6
J2	Tailrace Valve to Parshall Flume	2.8	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)	3.1
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	6.6	Z1	SOD Release Subtotal	3.1	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	7.0							D1a	BV Pick-Up gated	□
Y1	Redlands Sandbox Spill	0.2							A5	Total SAR Inflows	16.3
	minus										
D1	BVMWC River PU (USGS)	3.1									
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	6.6									
K1	PH3# Penstock (SCADA)	5.2									

Other			Seven Oaks Dam			Edison Generation		
J1	Big Bear Lake Release	0.9	W	Observation at SOD	N/A			
L1	SCE SAR AVM (SCADA)	11.9	X	SOD Reservoir Elevation (scada)	N/A			
X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			

SAR PH#1 Generating	☒
SAR PH#3 Generating	☒

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	0.0	J2	Tailrace Valve to Parshall Flume	2.8	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	7.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	2.8	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	2.8	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	2.8		Parshall Flume (SCADA)	2.8	B1	BVMWC Highline	6.6
R1	BVMWC Highline to Boullioun	0.0							C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0							I2	Tailrace Pipeline	2.8
T1	Tate Pump Station to Zanja	0.0							L2	SBVWCD Parshall Flume	2.8
C1	Greenspot Pipeline	0.0								minus	

Irrigation			Other		
D2	Boullioun Box Weir	6.6	J2	Tailrace Valve to Parshall Flume	2.8
	minus		K2	Northfork Parshall Flume	0.0
B2	Gay Overflow	1.8	I1	Redlands Tunnel	0.3
C2	Irrigation	4.8	N2	Total SAR Deliveries	16.3

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.6	E3	M/C #1 Penstock Flow	5.6
B3	M/C #3 Penstock	3.0	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	5.6			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	4.4	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	5.6	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.2	U3	Total MC Deliveries	5.6	V3	Zanja West Weir to CWC Canal	3.1
			T3	MC #1 Flow (Cooley Hat)	5.6				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									V3	Crafton Reservoir Level (21.3)	17.7

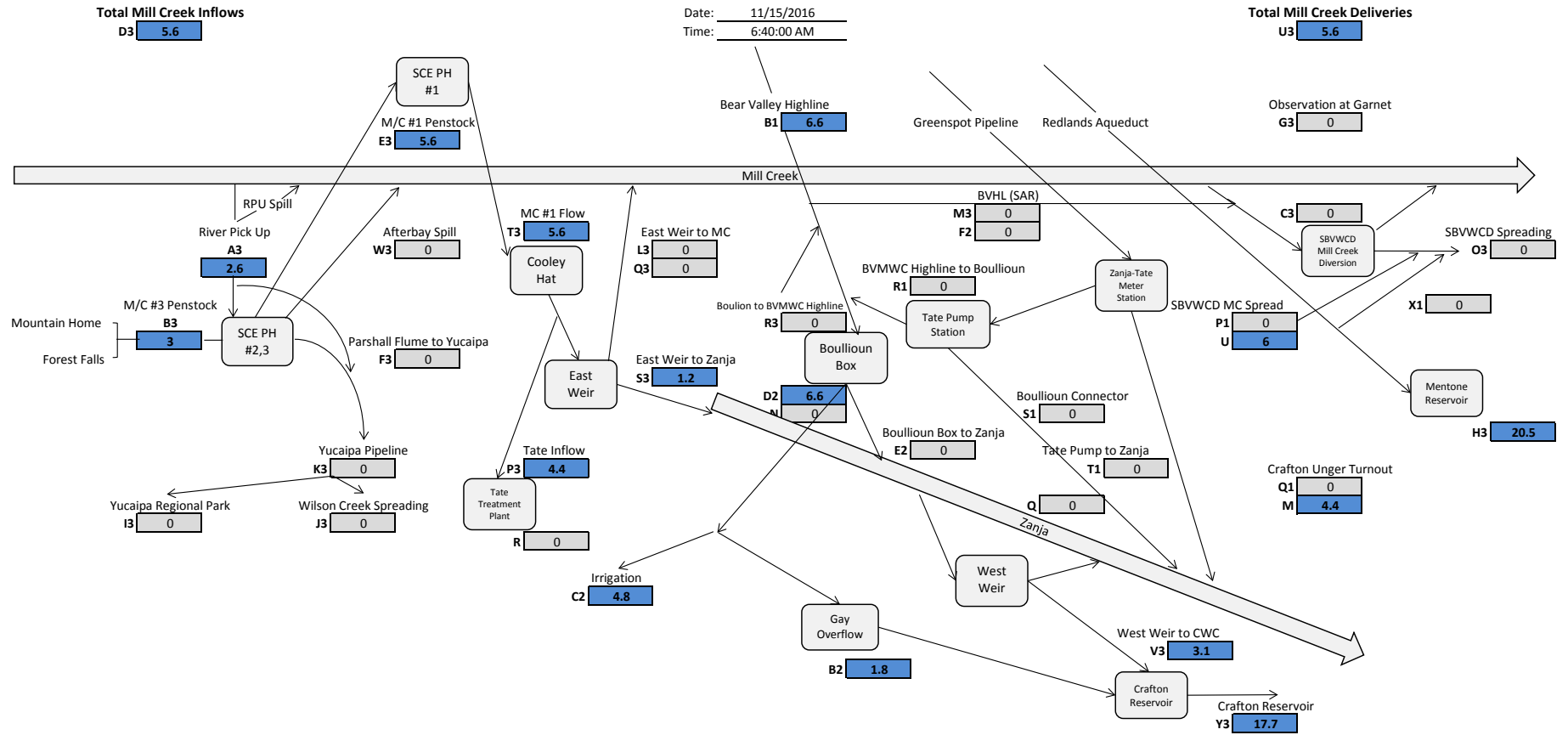
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	0.0

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	5.5	I4	293.6	123,000	I4	2,570.6	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	16.9		O4	182.5	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	15.0	
C4	Mill Creek	MC	G4	0.0	K4	31.5	73,800	K4	901.8	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0.0	714	L4	17.6	714
	Redlands	SWP		0.0		3.0			172.6	
	Loma Linda	SWP		9.9		75.0			75.0	
	East Valley	SWP		41.7		1,854.3			3,766.8	
SAR Passing Cuttle Weir	0		Share of Lost Flow	0	Estimate SAR Recharge	0				
Mill Creek Passing Garnet	0		Share of Lost Flow	0	Estimate Mill Creek Recharge	0				
Flow in the River Above Alabama	0		Flowing Beyond Alabama	0	Total River Recharge	0				

Santa Ana River - Mill Creek Cooperative Water Project

Mill Creek Stations



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Santa Ana Stations

