

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/1/2015

Time: 7:15:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	23.8
N2	Total SAR Deliveries	23.8
A1	SAR PH#3 Penstock (calc)	15.2
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	6.8
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	12.2
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	4.0
V	Total SWP Deliveries	4.0
J	Northfork Canal	2.9
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	1.1

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	9.2
U3	Total MC Deliveries	9.2
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	9.2

Reservoir Levels	Feet
Observation at SOD	2154.2
Crafton Reservoir Level (21.3)	17
Mentone Reservoir Level	20

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	256	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	44	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

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State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.9
D	Purchased Water	4.0	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	4.0	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	1.1
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	4.0

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	6.8	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.6	A1	SAR PH #3 Penstock (calc)	15.2
H2	Edwards Canal	0.8	D2	Boullioun Box Weir	4.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	4.0
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)	4.6
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	4.0	Z1	SOD Release Subtotal	4.6	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	12.5	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	0.0
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2154.1	A5	Total SAR Inflows	23.8
minus			L1	SCE SAR AVM (SCADA)	18.8	X	SOD Reservoir Elevation (scada)	2154.2			
D1	BVMWC River PU (USGS)	4.6	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	15.2									
K1	PH3# Penstock (SCADA)	15.5									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	6.8	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.8	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	12.5
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
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	7.6		Parshall Flume (SCADA)	0.0	B1	BVMWC Highline	4.0
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	4.0	I2	Tailrace Pipeline	7.6
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	3.2	minus		
						C2	Irrigation	0.8	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	23.8

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.8	E3	M/C #1 Penstock Flow	9.2
B3	M/C #3 Penstock	6.4	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	9.2			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	9.2	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.2	U3	Total MC Deliveries	9.2	V3	Zanja West Weir to CWC Canal	0.2
			T3	MC #1 Flow (Cooley Hat)	9.2				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	17.0

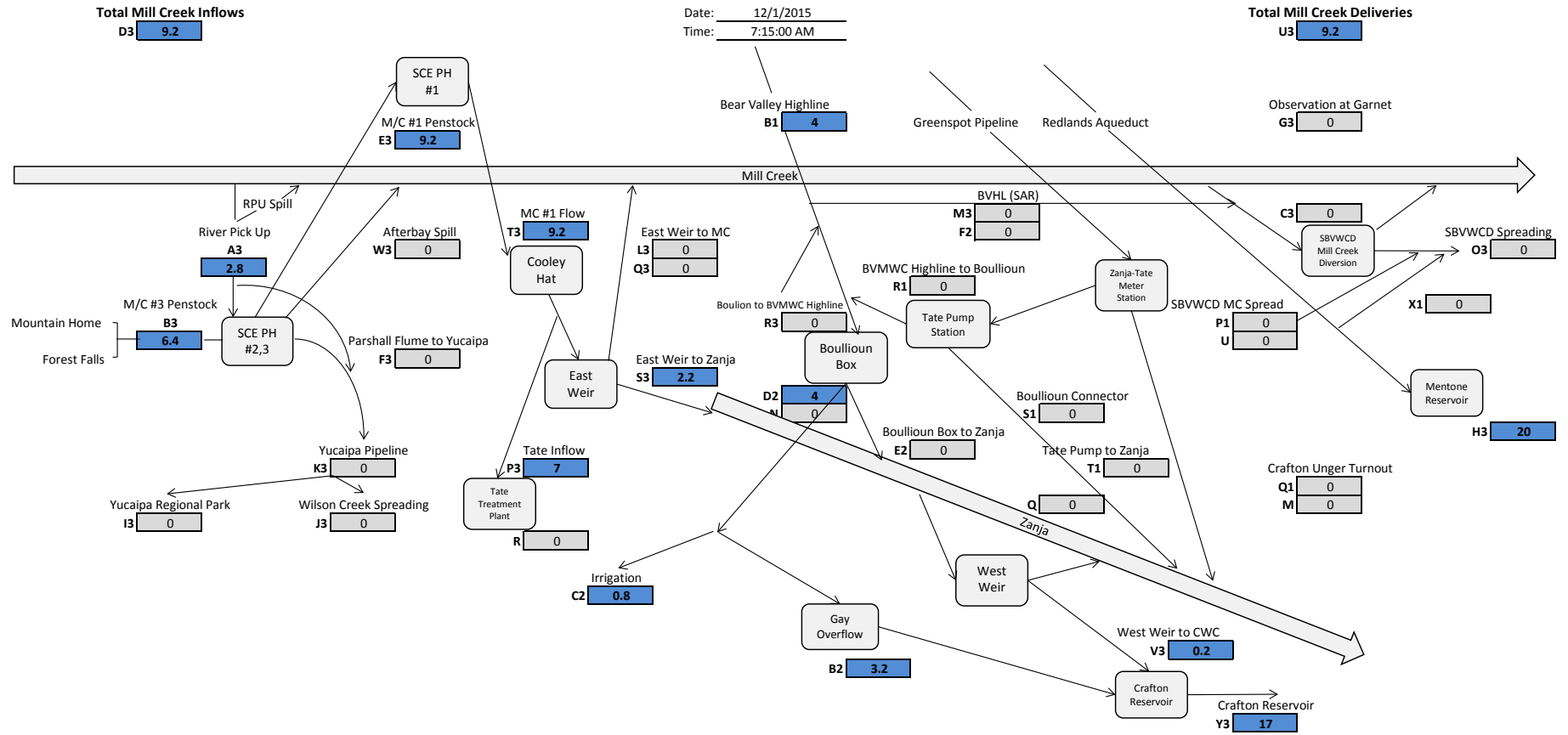
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	0.0

SBVWCD Recharge

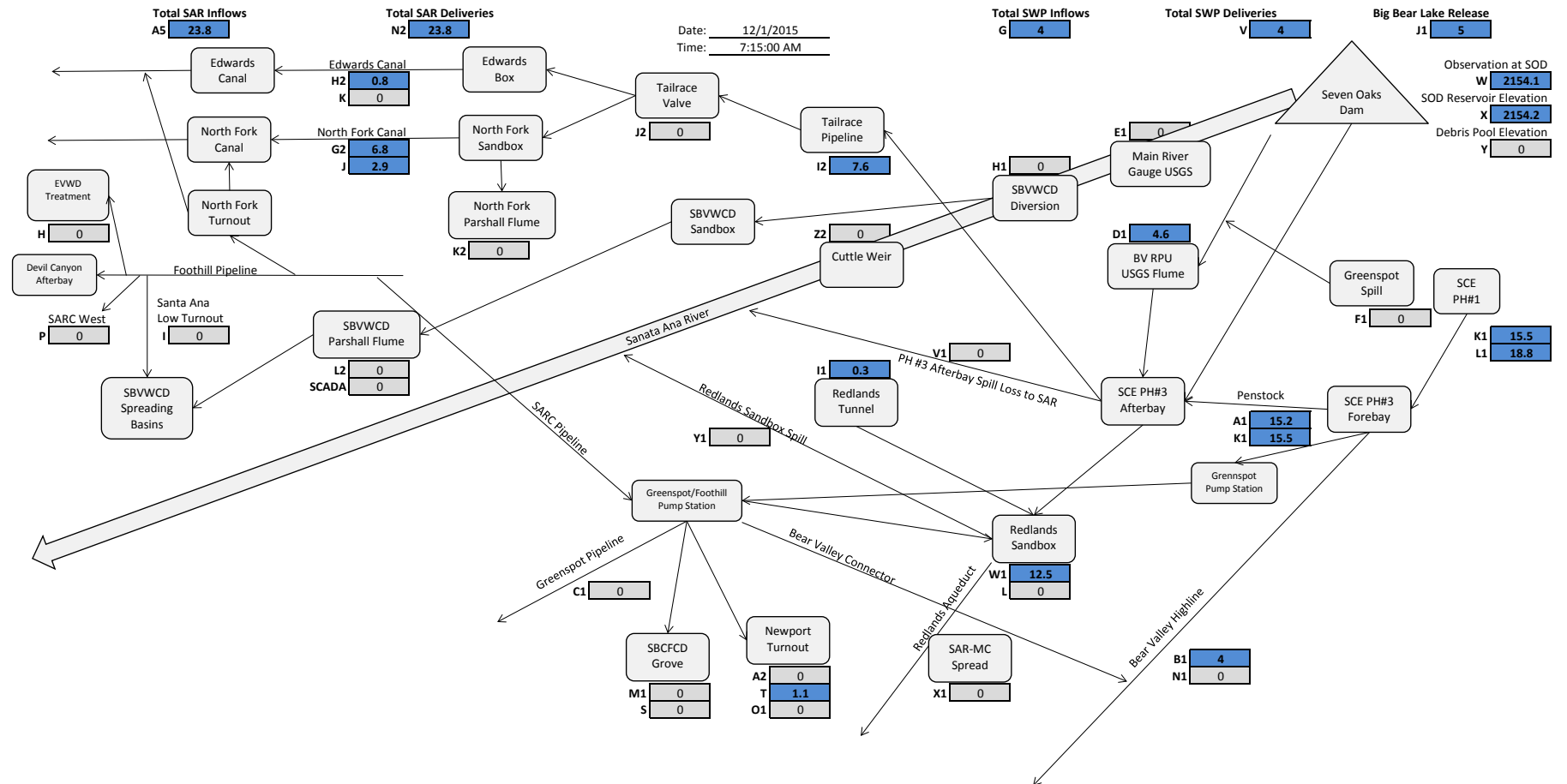
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	256.2	123,000	I4	2,504.3	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	K4	699.4	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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



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



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/3/2015

Time: 7:30:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	21.9
N2	Total SAR Deliveries	21.9
A1	SAR PH#3 Penstock (calc)	14.5
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	5.4
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	12.7
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.9
V	Total SWP Deliveries	2.9
J	Northfork Canal	2.1
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.8

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	8.7
U3	Total MC Deliveries	8.7
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	8.7

Reservoir Levels	Feet
Observation at SOD	2154
Crafton Reservoir Level (21.3)	18
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	259	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	44	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

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Daily Flow Report

Date: 12/3/2015
Time: 7:30:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	2.9	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.9	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.8
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.9

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.4	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.4	A1	SAR PH #3 Penstock (calc)	14.5
H2	Edwards Canal	0.8	D2	Boullioun Box Weir	3.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	3.0
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)	4.4
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	3.0	Z1	SOD Release Subtotal	4.4	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	13.0	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2154.1	A5	Total SAR Inflows	21.9
minus			L1	SCE SAR AVM (SCADA)	17.9	X	SOD Reservoir Elevation (scada)	2154.0			
D1	BVMWC River PU (USGS)	4.4	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	14.5									
K1	PH3# Penstock (SCADA)	14.6									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.4	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.8	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	13.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
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	6.2	Parshall Flume (SCADA)			B1	BVMWC Highline	3.0
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	3.0	I2	Tailrace Pipeline	6.2
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	2.2	minus		
						C2	Irrigation	0.8	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	21.9

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.7	E3	M/C #1 Penstock Flow	8.7
B3	M/C #3 Penstock	6.0	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	8.7			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
J3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.0	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)	8.7	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.7	U3	Total MC Deliveries	8.7	V3	Zanja West Weir to CWC Canal	0.6
			T3	MC #1 Flow (Cooley Hat)	8.7				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	18.0

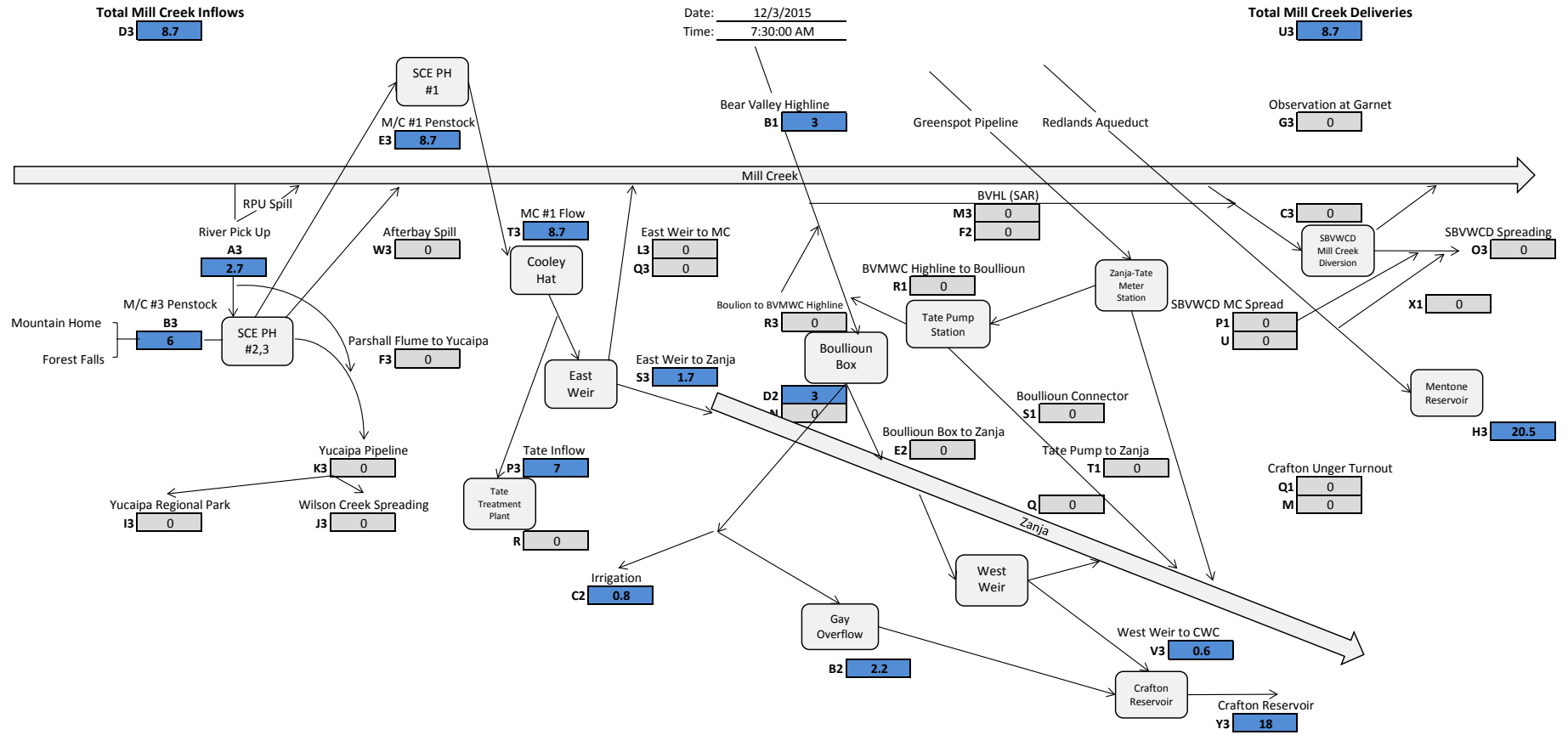
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	0.0

SBVWCD Recharge

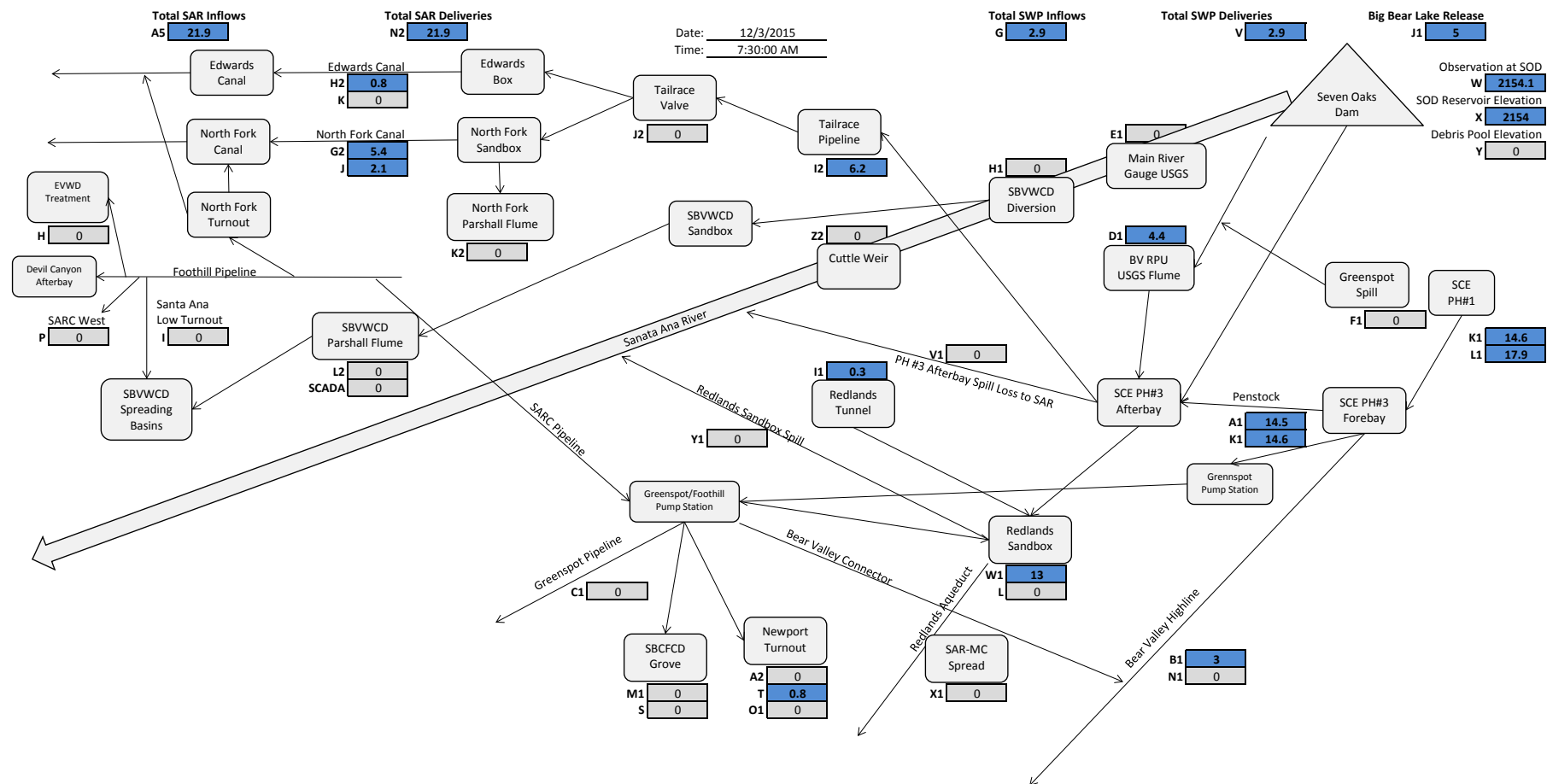
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	259.0	123,000	I4	2,507.1	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	K4	699.4	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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



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



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/4/2015

Time: 7:30:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	22.6
N2	Total SAR Deliveries	22.6
A1	SAR PH#3 Penstock (calc)	14.5
B1	BVMWC Highline	3.1
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	5.5
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	13.2
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.0
V	Total SWP Deliveries	2.0
J	Northfork Canal	2.0
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	8.8
U3	Total MC Deliveries	8.8
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	8.8

Reservoir Levels	Feet
Observation at SOD	2154
Crafton Reservoir Level (21.3)	17
Mentone Reservoir Level	21

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	259	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	44	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

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State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.0
D	Purchased Water	2.0	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.0	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.0
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.0

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.5	A2	Newport	0.0	D1	BVMWC River PU (USGS)	5.0	A1	SAR PH #3 Penstock (calc)	14.5
H2	Edwards Canal	0.8	D2	Boullioun Box Weir	3.1	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	3.1
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)	5.0
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	3.1	Z1	SOD Release Subtotal	5.0	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	13.5	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2154.1	A5	Total SAR Inflows	22.6
minus			L1	SCE SAR AVM (SCADA)	18.8	X	SOD Reservoir Elevation (scada)	2154.0			
D1	BVMWC River PU (USGS)	5.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	14.5									
K1	PH3# Penstock (SCADA)	14.6									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.5	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.8	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	13.5
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
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	6.3	Parshall Flume (SCADA)			B1	BVMWC Highline	3.1
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	3.1	I2	Tailrace Pipeline	6.3
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	2.2	minus		
						C2	Irrigation	0.9	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	22.6

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.7	E3	M/C #1 Penstock Flow	8.8
B3	M/C #3 Penstock	6.1	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	8.8			

Mill Creek Deliveries

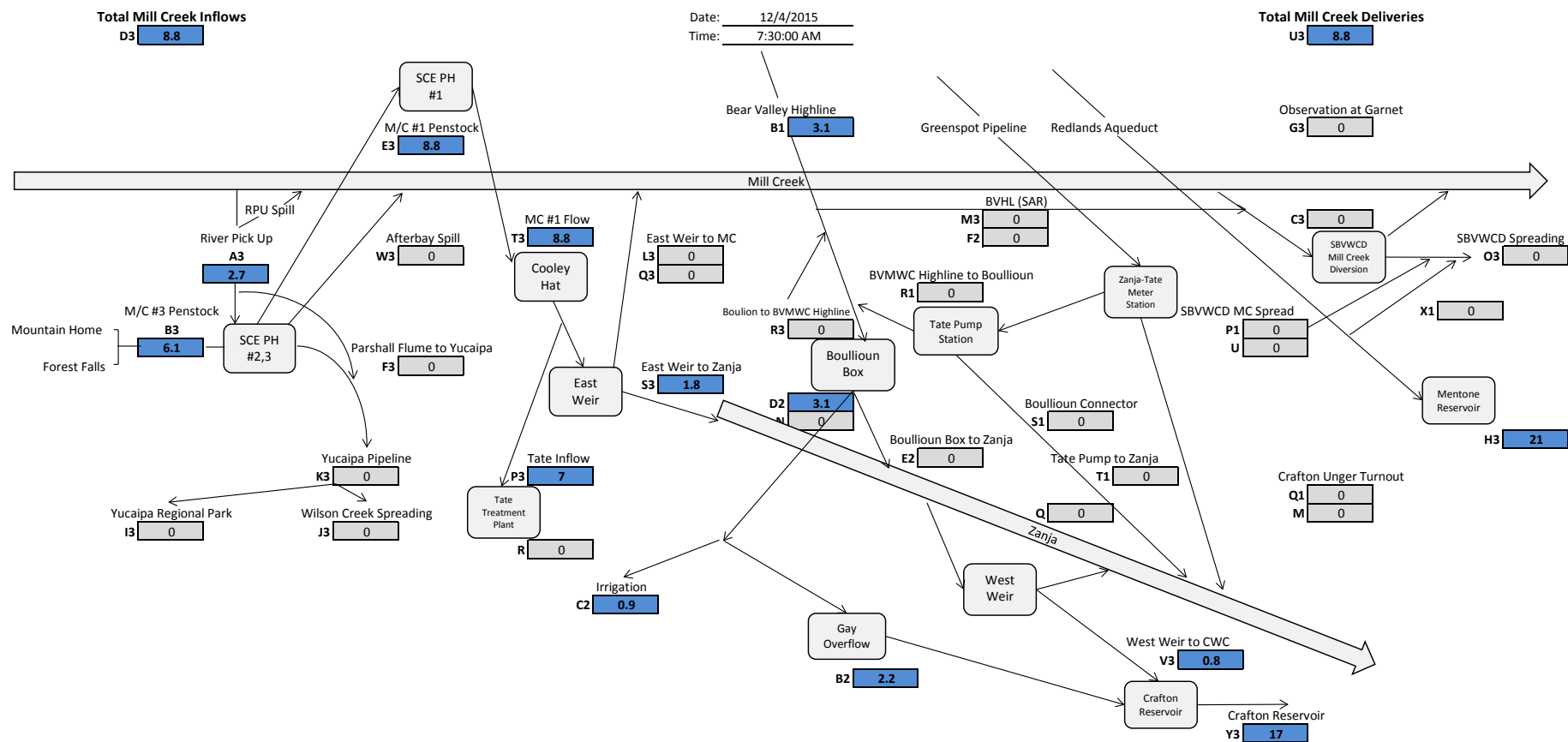
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
J3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	21.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	8.8	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.8	U3	Total MC Deliveries	8.8	V3	Zanja West Weir to CWC Canal	0.8
			T3	MC #1 Flow (Cooley Hat)	8.8				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	17.0

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

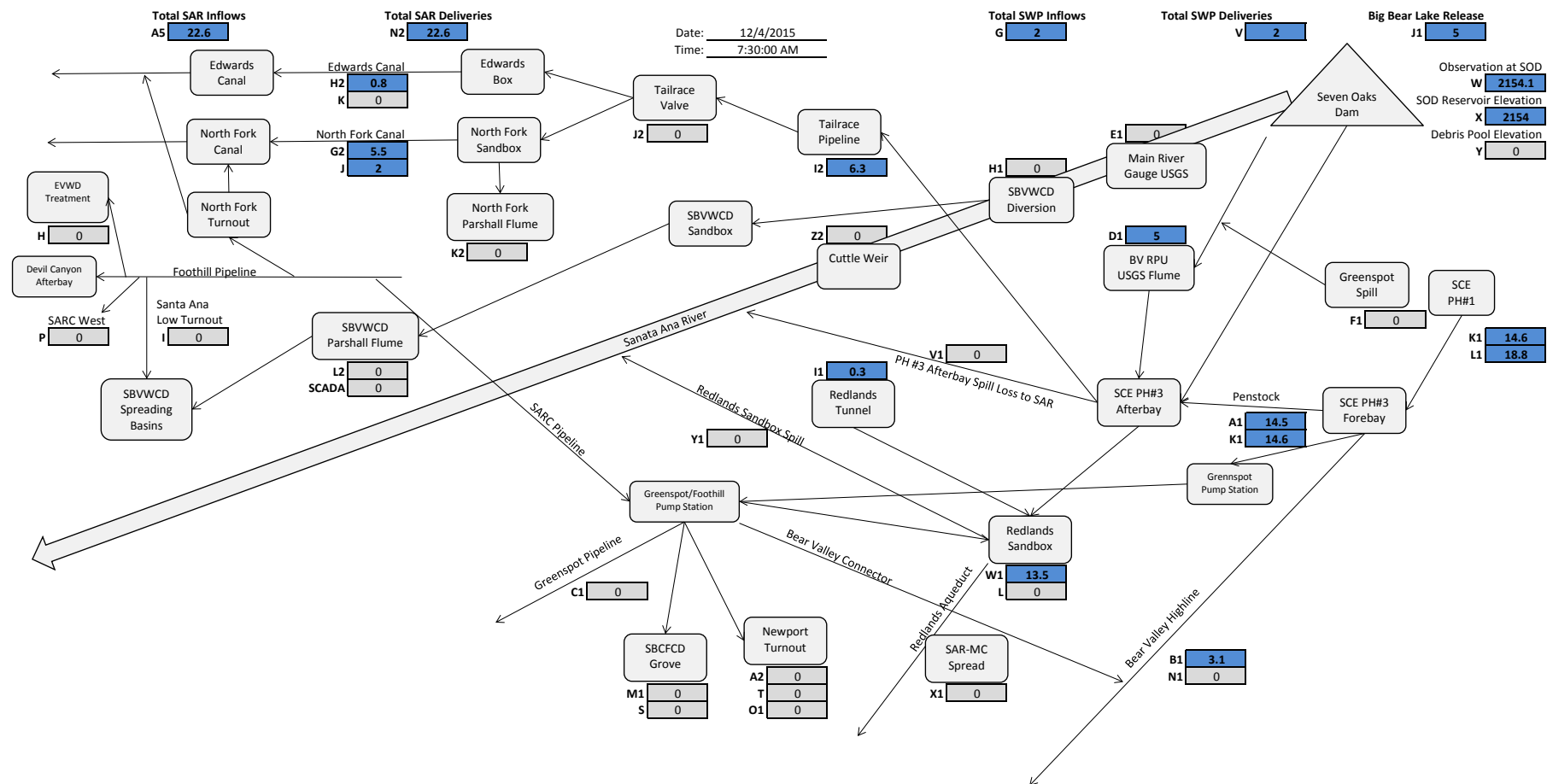
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	259.0	123,000	I4	2,507.1	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	K4	699.4	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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



Santa Ana River - Mill Creek Cooperative Water Project

Santa Ana Stations



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/7/2015

Time: 6:50:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	20.8
N2	Total SAR Deliveries	20.8
A1	SAR PH#3 Penstock (calc)	12.5
B1	BVMWC Highline	3.1
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	5.6
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	12.1
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.1
V	Total SWP Deliveries	2.1
J	Northfork Canal	2.1
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	8.1
U3	Total MC Deliveries	8.1
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	8.1

Reservoir Levels	Feet
Observation at SOD	2152.9
Crafton Reservoir Level (21.3)	21.2
Mentone Reservoir Level	21.3

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	257	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	44	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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. There is more water at the Gay overflow this morning than water in the Highline due to a well being on and contributing to the flow.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/7/2015
Time: 6:50:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	2.1	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.1	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.0
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.1

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.6	A2	Newport	0.0	D1	BVMWC River PU (USGS)	5.2	A1	SAR PH #3 Penstock (calc)	12.5
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	3.1	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	3.1
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)	5.2
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	3.1	Z1	SOD Release Subtotal	5.2	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	12.4	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2152.6	A5	Total SAR Inflows	20.8
minus			L1	SCE SAR AVM (SCADA)	17.3	X	SOD Reservoir Elevation (scada)	2152.9			
D1	BVMWC River PU (USGS)	5.2	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	12.5									
K1	PH3# Penstock (SCADA)	14.3									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.6	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	12.4
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Z1	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.6	Parshall Flume (SCADA)			B1	BVMWC Highline	3.1
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	3.1	I2	Tailrace Pipeline	5.6
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	3.6	minus		
						C2	Irrigation	0.0	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	20.8

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.4	E3	M/C #1 Penstock Flow	8.1
B3	M/C #3 Penstock	5.7	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	8.1			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.3	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	21.3
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	8.1	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.8	U3	Total MC Deliveries	8.1	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	8.1				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	21.2

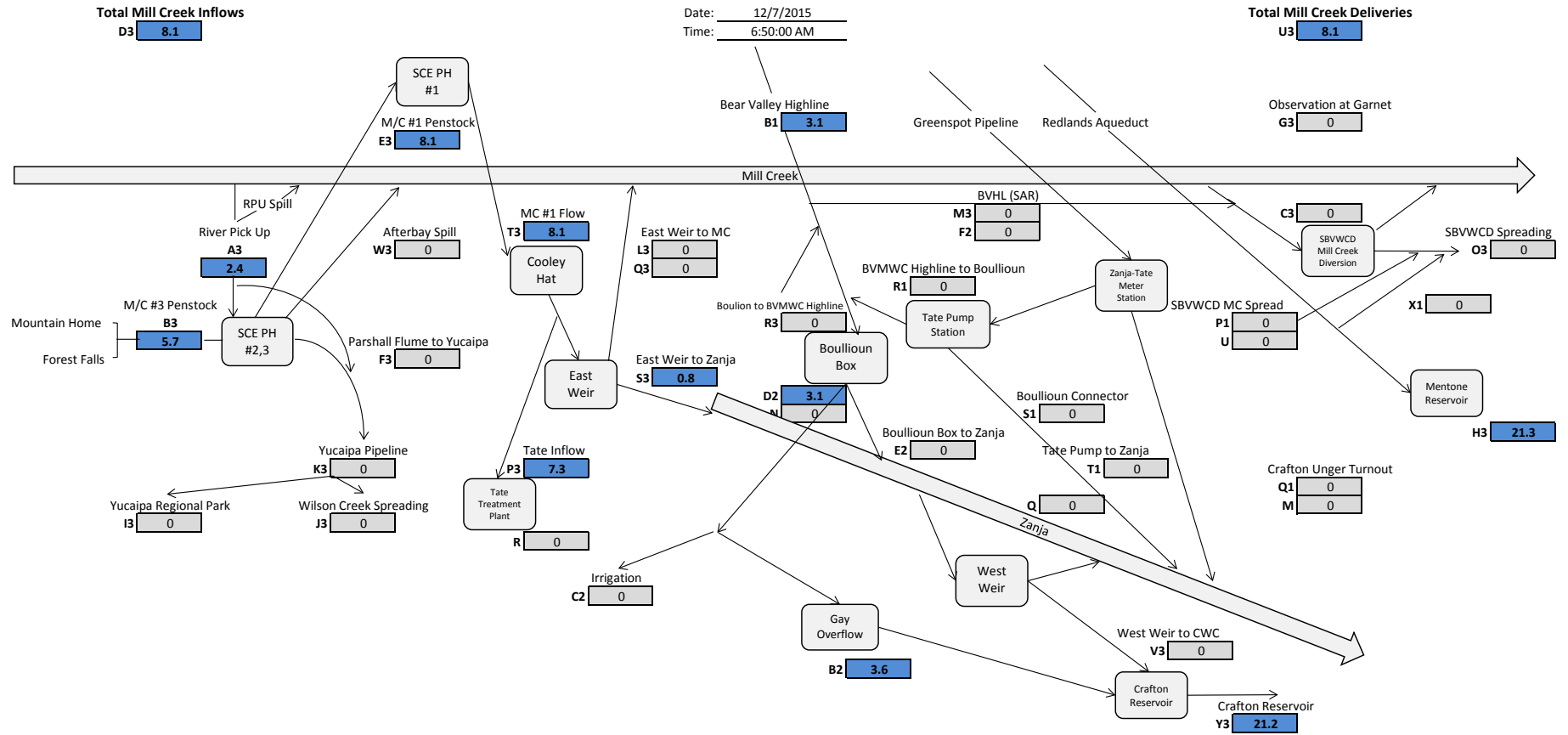
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	0.0

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	256.6	123,000	I4	2,504.7	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	K4	699.4	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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		

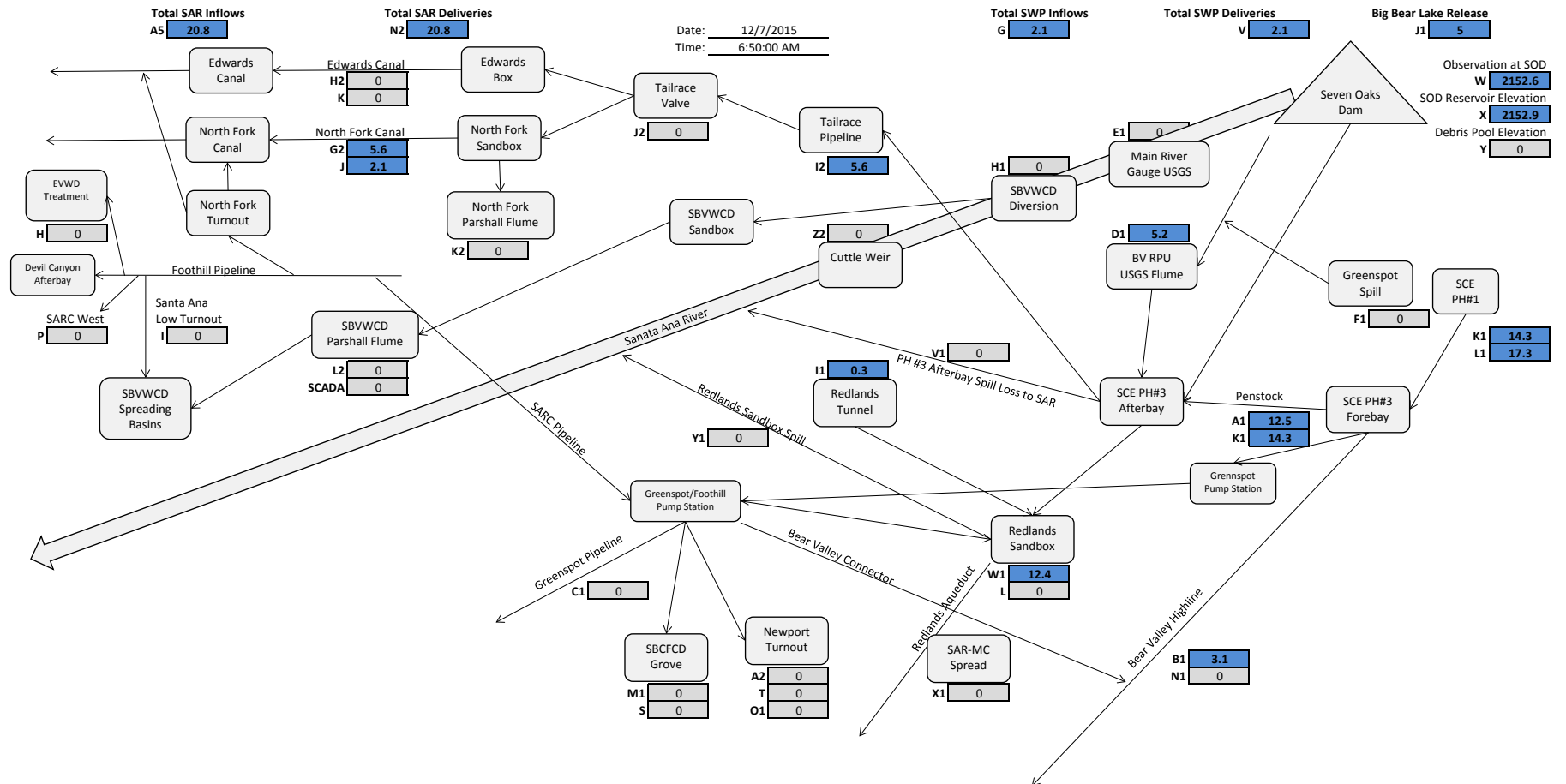
Santa Ana River - Mill Creek Cooperative Water Project

Mill Creek Stations



Santa Ana River - Mill Creek Cooperative Water Project

Santa Ana Stations



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/8/2015

Time: 6:55:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	20.5
N2	Total SAR Deliveries	20.5
A1	SAR PH#3 Penstock (calc)	14.0
B1	BVMWC Highline	2.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	5.2
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	13.3
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.1
V	Total SWP Deliveries	2.1
J	Northfork Canal	2.1
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	8.2
U3	Total MC Deliveries	8.2
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	8.2

Reservoir Levels	Feet
Observation at SOD	2152.7
Crafton Reservoir Level (21.3)	20.5
Mentone Reservoir Level	21

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	257	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	44	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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. There is more water at the Gay overflow this morning than water in the Highline due to a well being on and contributing to the flow.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/8/2015
Time: 6:55:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	2.1	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.1	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.0
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.1

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline		SOD Release Subtotal		Total SAR Inflows	
G2	Northfork Canal Weir	5.2	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.5
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	2.0	E1	Main River Gage (USGS)	0.0
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun Box to Zanja	0.0	minus		
K2	Northfork Parshall Flume	0.0	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	2.0	Z1	SOD Release Subtotal	4.5
W1	Redlands Aqueduct / Sandbox	13.6	Other		Seven Oaks Dam		D1a	BV Pick-Up gated
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2152.6
minus			L1	SCE SAR AVM (SCADA)	17.9	X	SOD Reservoir Elevation (scada)	2152.7
D1	BVMWC River PU (USGS)	4.5	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0
I1	Redlands Tunnel	0.3					A5	Total SAR Inflows
A1	SAR PH #3 Penstock (calc)	14.0						20.5
K1	PH3# Penstock (SCADA)	14.3						

Santa Ana River Deliveries

Greenspot Pipeline		
M1	SBCFCD Grove	0.0
N1	BVMWC Highline	0.0
O1	Newport for BVMWC	0.0
P1	SBVWCD Mill Creek Spreading	0.0
Q1	Crafton WC Unger Lane	0.0
R1	BVMWC Highline to Boullioun	0.0
S1	Crafton WC Boullioun	0.0
T1	Tate Pump Station to Zanja	0.0
C1	Greenspot Pipeline	0.0

Tailrace Pipeline		
G2	Northfork Canal Weir	5.2
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	5.2

SBVWCD Parshall FlumeTo Basins		
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	0.0
L2	SBVWCD Parshall Flume	0.0
	Parshall Flume (SCADA)	0.0

Irrigation		
D2	Boullioun Box Weir	2.0
		minus
B2	Gay Overflow	1.2
C2	Irrigation	0.8

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	13.6
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	2.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	5.2
L2	SBVWCD Parshall Flume	0.0
		minus
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	0.3
N2	Total SAR Deliveries	20.5

Mill Creek Inflows

Total MC Inflows			Other	
A3	RPU Flow	2.4	E3	M/C #1 Penstock Flow
B3	M/C #3 Penstock	5.8	F3	Stream Parshall Flume to Yucaipa
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet
D3	Total MC Inflows	8.2		0.0

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other	
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.3	C3	SBVWCD Mill Creek Diversion	0.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	8.2
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.9	U3	Total MC Deliveries	8.2
			T3	MC #1 Flow (Cooley Hat)	8.2	H3	Mentone Reservoir Level	21.0
							R3	Boullioun to BVMWC Highline
							V3	Zanja West Weir to CWC Canal
							W3	Mill Creek PH #2,3 Afterbay Spill
							Y3	Crafton Reservoir Level (21.3)

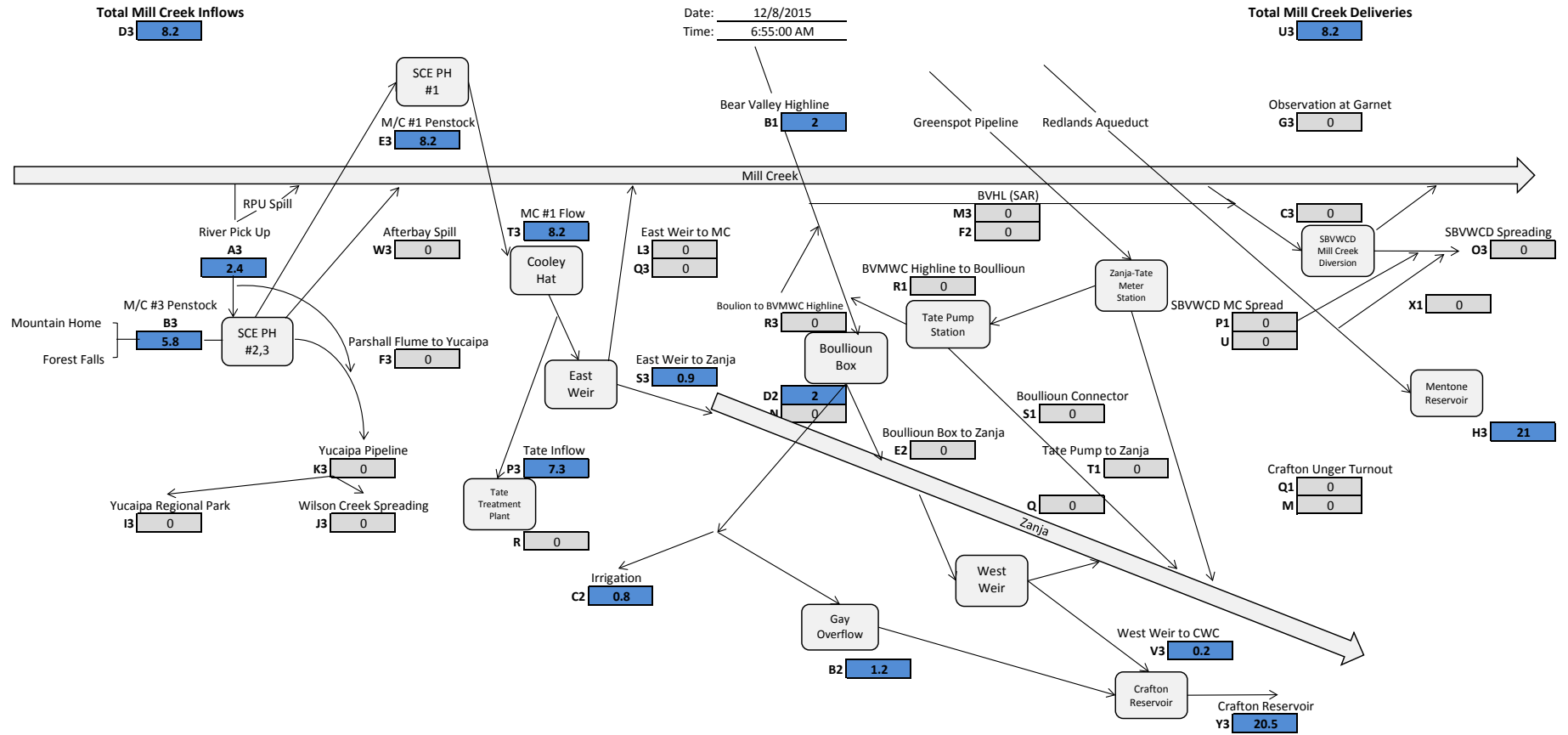
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	0.0

SBVWCD Recharge

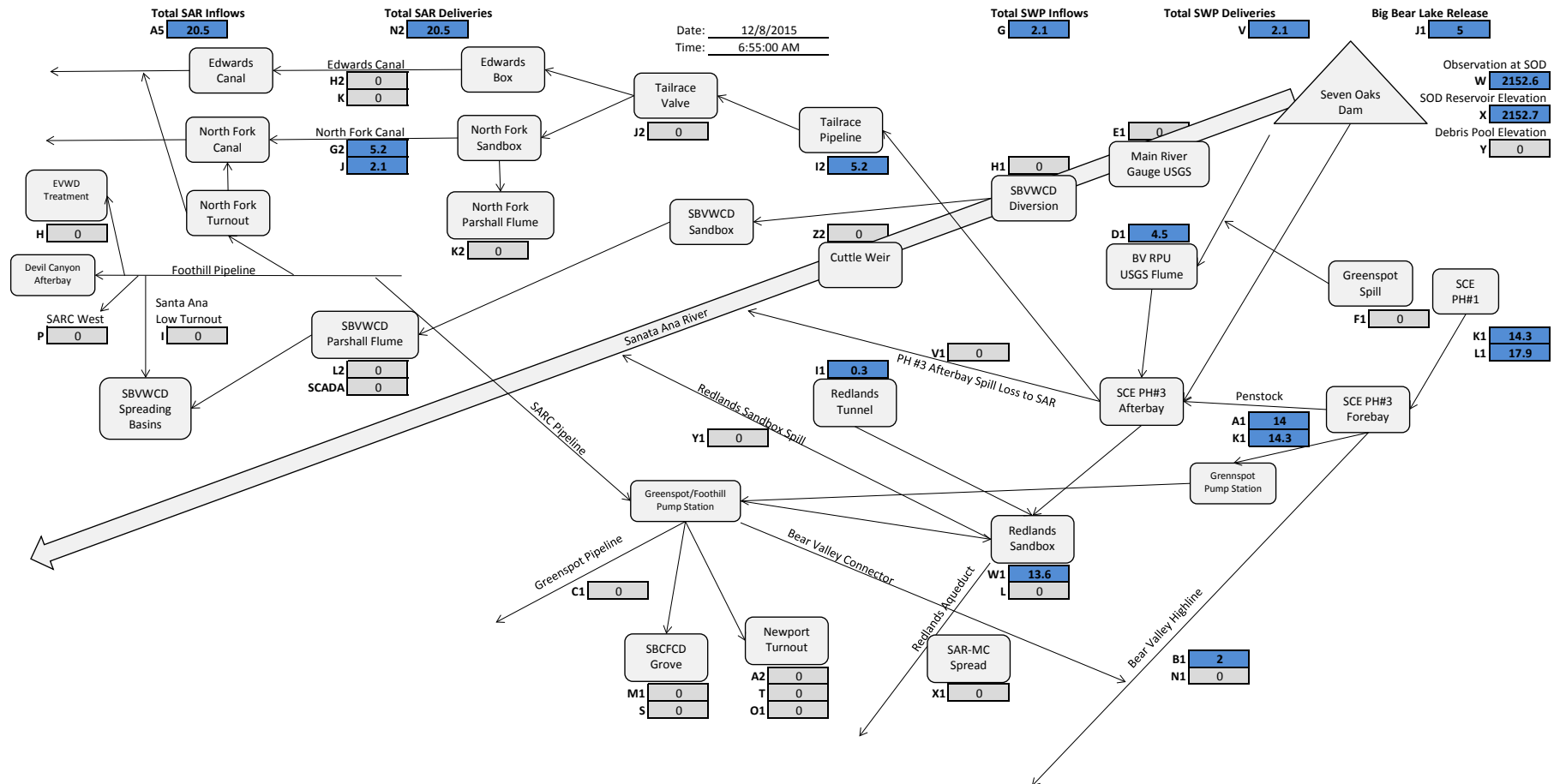
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	256.6	123,000	I4	2,504.7	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	K4	699.4	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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



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



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/9/2015

Time: 6:55:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	20.9
N2	Total SAR Deliveries	20.9
A1	SAR PH#3 Penstock (calc)	14.2
B1	BVMWC Highline	2.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	5.1
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	13.8
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.5
V	Total SWP Deliveries	2.5
J	Northfork Canal	2.1
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.4

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	7.7
U3	Total MC Deliveries	7.7
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	7.7

Reservoir Levels	Feet
Observation at SOD	2152.6
Crafton Reservoir Level (21.3)	19.7
Mentone Reservoir Level	20.2

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	257	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	44	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/9/2015
Time: 6:55:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	2.5	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.5	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.4
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.5

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.1	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.7	A1	SAR PH #3 Penstock (calc)	14.2
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	2.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.0
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)	4.7
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	2.0	Z1	SOD Release Subtotal	4.7	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	14.1	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	w	Observation at SOD	2152.6	A5	Total SAR Inflows	20.9
minus			L1	SCE SAR AVM (SCADA)	16.6	x	SOD Reservoir Elevation (scada)	2152.6			
D1	BVMWC River PU (USGS)	4.7	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	14.2									
K1	PH3# Penstock (SCADA)	16.0									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.1	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	14.1
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Z1	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.1	Parshall Flume (SCADA)			B1	BVMWC Highline	2.0
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	2.0	I2	Tailrace Pipeline	5.1
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	1.2	minus		
						C2	Irrigation	0.8	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	20.9

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.4	E3	M/C #1 Penstock Flow	7.7
B3	M/C #3 Penstock	5.3	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	7.7			

Mill Creek Deliveries

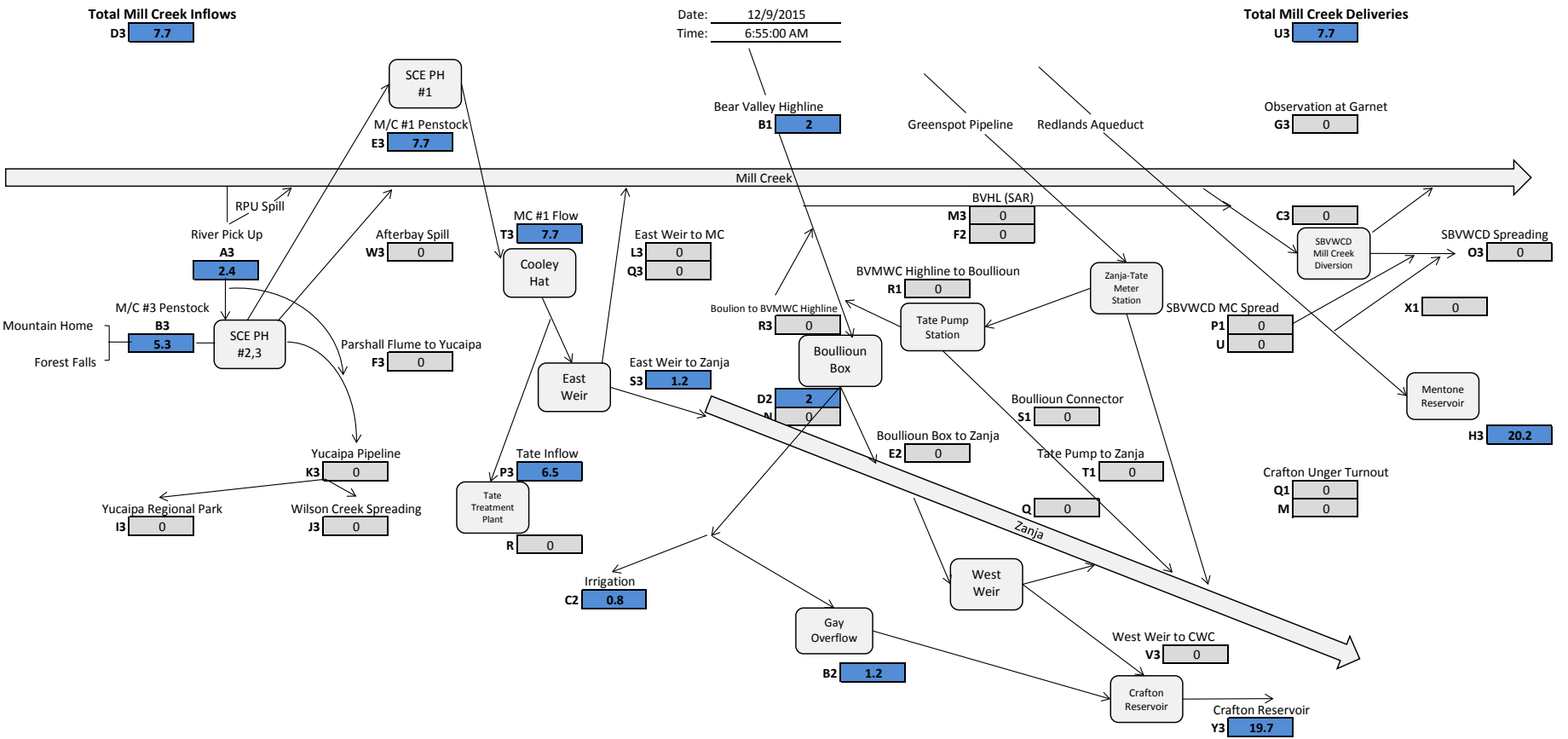
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	6.5	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.2
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	7.7	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.2	U3	Total MC Deliveries	7.7	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	7.7				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	19.7

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

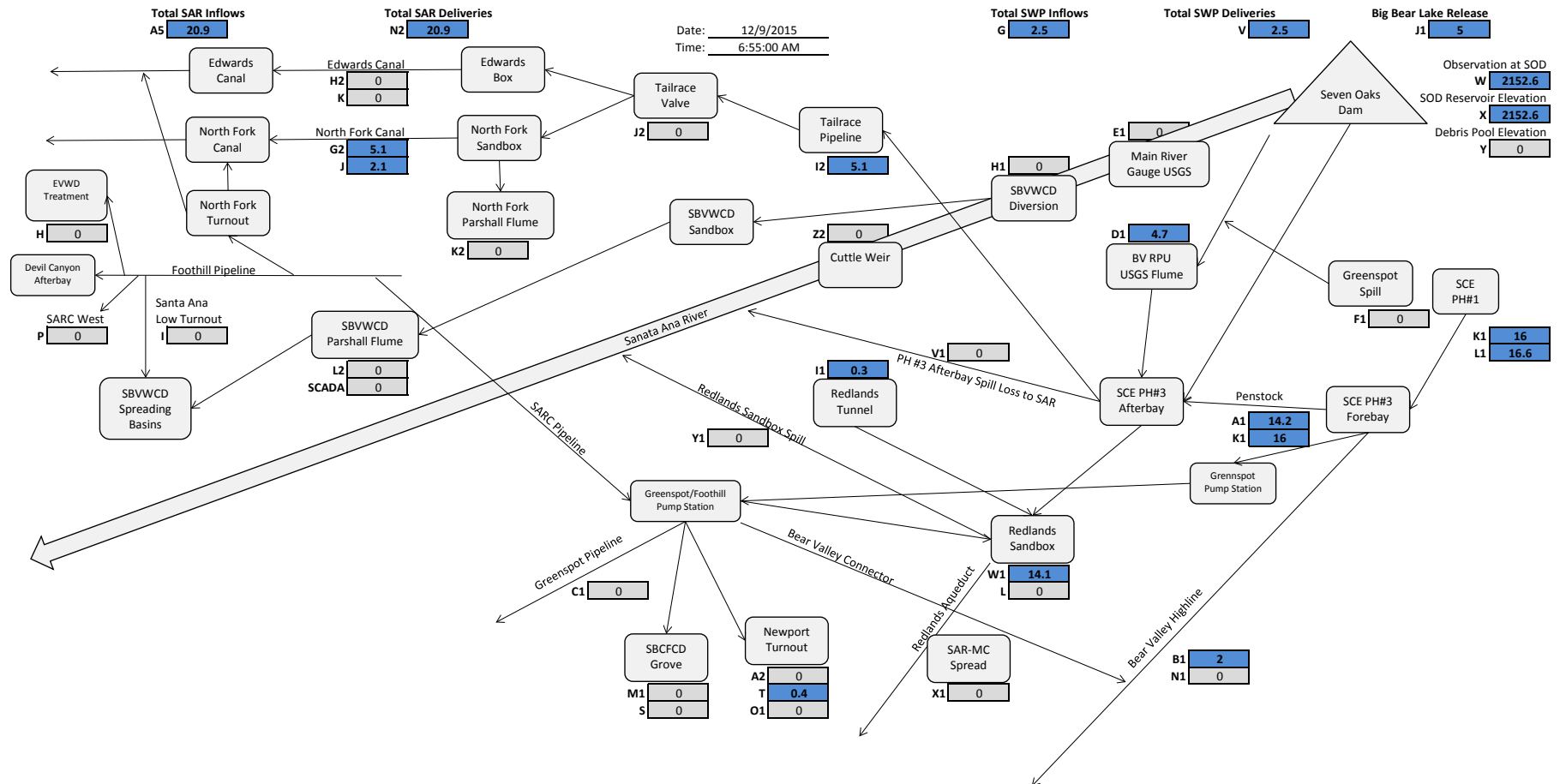
SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	256.6	123,000	I4	2,504.7	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	K4	699.4	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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



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



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/10/2015

Time: 7:30:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	22.7
N2	Total SAR Deliveries	22.7
A1	SAR PH#3 Penstock (calc)	16.7
B1	BVMWC Highline	2.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	4.1
G2	North Fork Canal Weir	1.9
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	13.9
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.0
V	Total SWP Deliveries	2.0
J	Northfork Canal	2.0
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	8.2
U3	Total MC Deliveries	8.2
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	8.2

Reservoir Levels	Feet
Observation at SOD	2152.6
Crafton Reservoir Level (21.3)	19.3
Mentone Reservoir Level	19.1

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	265	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	44	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/10/2015
Time: 7:30:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.0
D	Purchased Water	2.0	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.0	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.0
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.0

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	1.9	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.0	A1	SAR PH #3 Penstock (calc)	16.7
H2	Edwards Canal	0.8	D2	Boullioun Box Weir	2.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.0
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	4.1	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	4.0
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	2.0	Z1	SOD Release Subtotal	4.0	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	14.2	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2152.6	A5	Total SAR Inflows	22.7
minus			L1	SCE SAR AVM (SCADA)	17.4	X	SOD Reservoir Elevation (scada)	2152.6			
D1	BVMWC River PU (USGS)	4.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	16.7									
K1	PH3# Penstock (SCADA)	16.7									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	1.9	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.8	K2	Northfork Parshall Flume	4.1	W1	Redlands Aqueduct / Sandbox	14.2
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	4.1	L2	SBVWCD Parshall Flume	4.1	Z1	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	6.8	Parshall Flume (SCADA)			B1	BVMWC Highline	2.0
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	2.0	I2	Tailrace Pipeline	6.8
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	4.1
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	1.2	minus		
						C2	Irrigation	0.8	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	4.1
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	22.7

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.4	E3	M/C #1 Penstock Flow	8.2
B3	M/C #3 Penstock	5.8	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	8.2			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	6.5	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.1
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	8.2	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.7	U3	Total MC Deliveries	8.2	V3	Zanja West Weir to CWC Canal	0.2
			T3	MC #1 Flow (Cooley Hat)	8.2				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	19.3

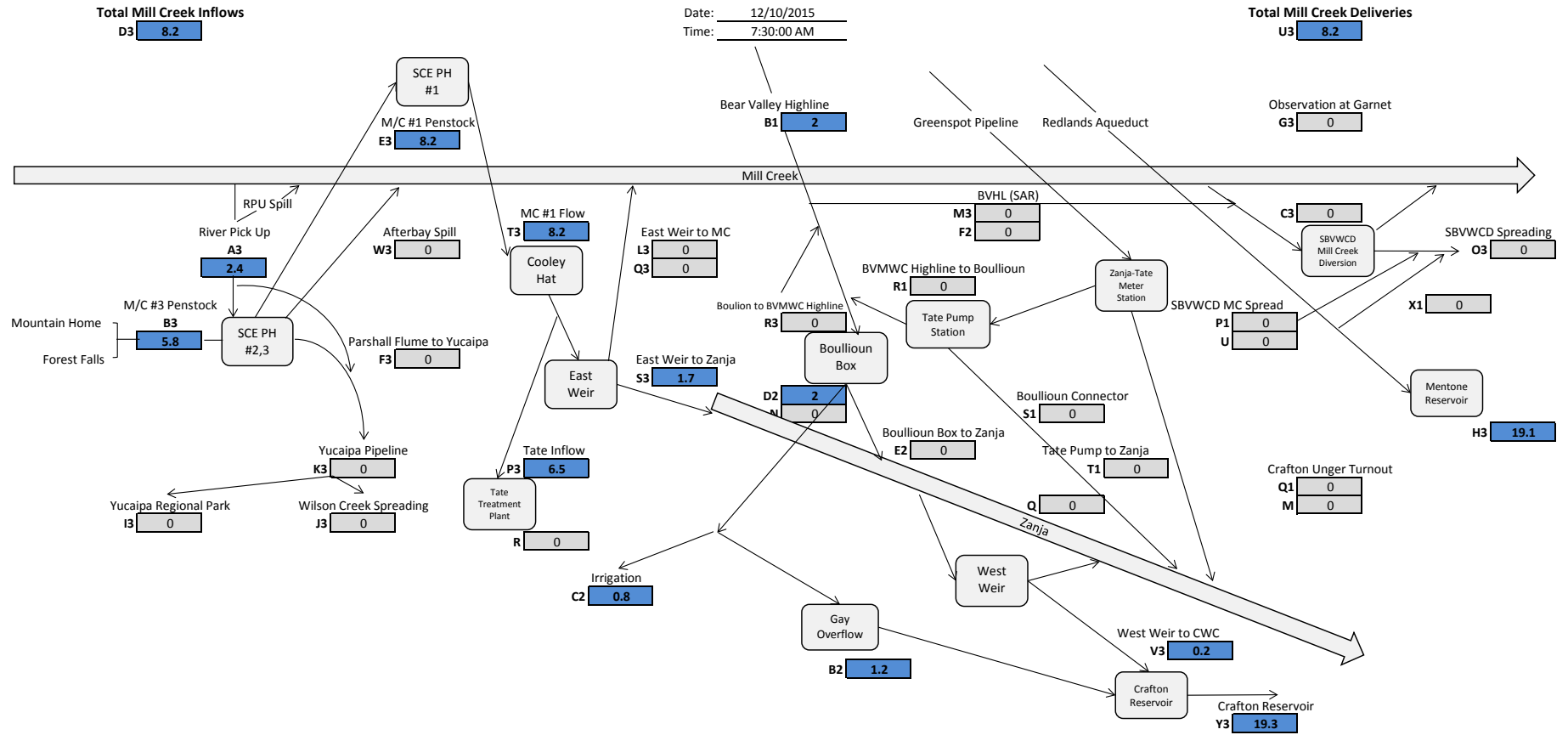
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	0.0

SBVWCD Recharge

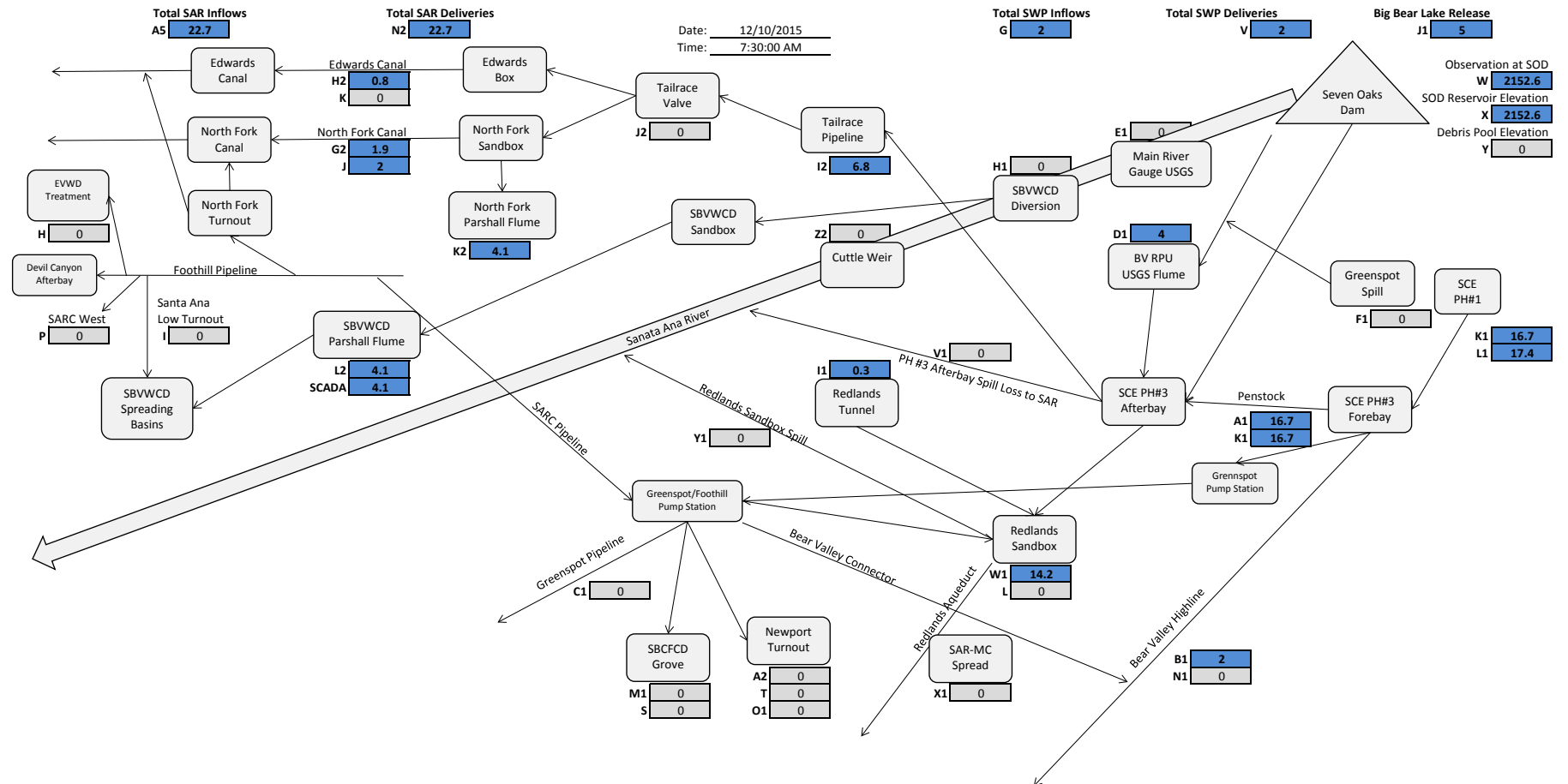
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	6.0	I4	265.2	123,000	I4	2,507.1	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	K4	699.4	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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



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



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/11/2015

Time: 7:30:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	22.5
N2	Total SAR Deliveries	22.5
A1	SAR PH#3 Penstock (calc)	16.4
B1	BVMWC Highline	2.1
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	5.6
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	13.9
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.1
V	Total SWP Deliveries	2.1
J	Northfork Canal	2.1
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	8.0
U3	Total MC Deliveries	8.0
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	8.0

Reservoir Levels	Feet
Observation at SOD	2152.2
Crafton Reservoir Level (21.3)	18.2
Mentone Reservoir Level	19.7

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	265	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	44	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/11/2015
Time: 7:30:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	2.1	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.1	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.0
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.1

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.6	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.0	A1	SAR PH #3 Penstock (calc)	16.4
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	2.1	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.1
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)	4.0
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	2.1	Z1	SOD Release Subtotal	4.0	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	14.2	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2152.2	A5	Total SAR Inflows	22.5
minus			L1	SCE SAR AVM (SCADA)	19.4	X	SOD Reservoir Elevation (scada)	2152.2			
D1	BVMWC River PU (USGS)	4.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	16.4									
K1	PH3# Penstock (SCADA)	16.7									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.6	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	14.2
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Z1	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	6.5	Parshall Flume (SCADA)			B1	BVMWC Highline	2.1
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	2.1	I2	Tailrace Pipeline	6.5
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	1.2	minus		
						C2	Irrigation	0.9	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	22.5

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.2	E3	M/C #1 Penstock Flow	8.0
B3	M/C #3 Penstock	5.8	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	8.0			

Mill Creek Deliveries

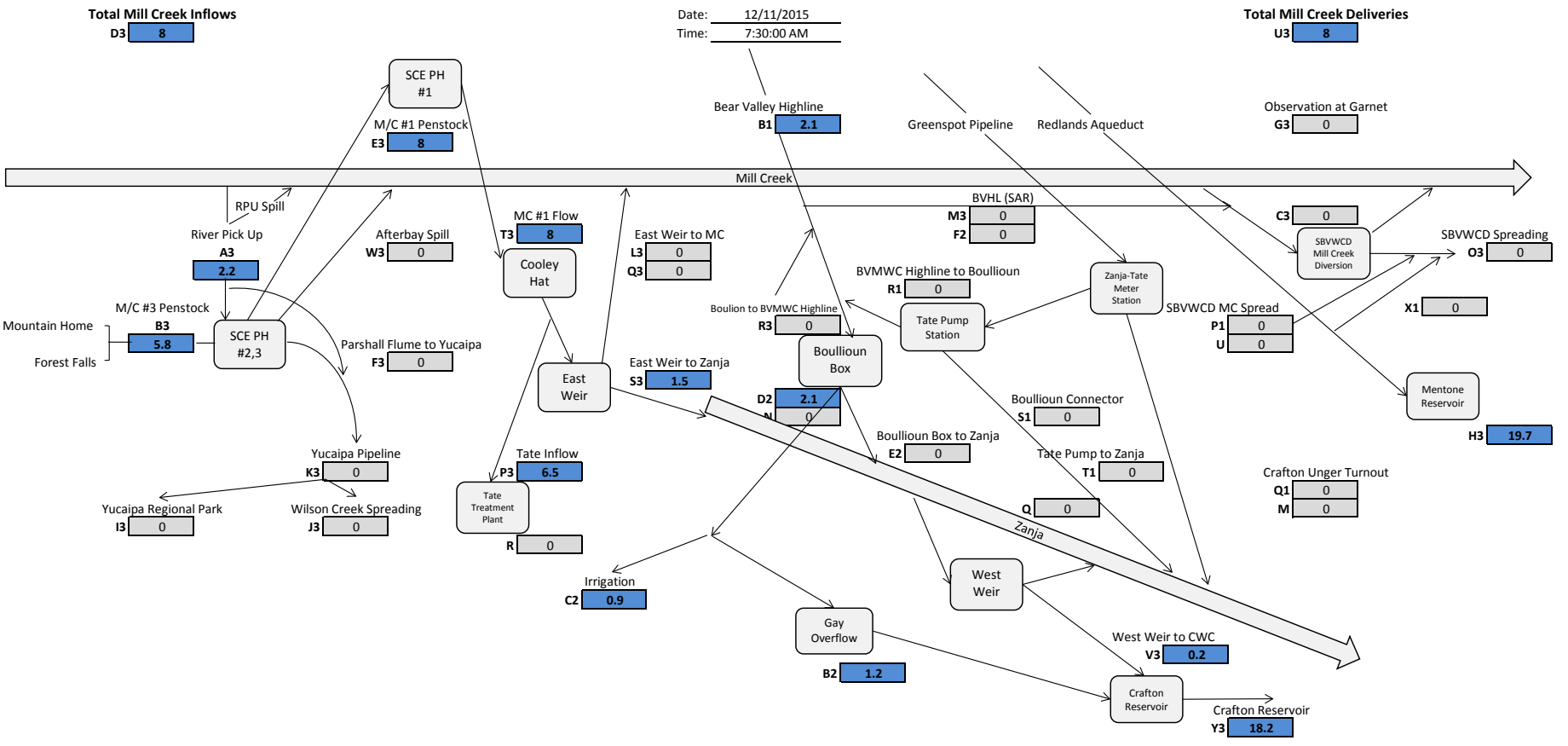
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	6.5	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.7
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	8.0	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.5	U3	Total MC Deliveries	8.0	V3	Zanja West Weir to CWC Canal	0.2
			T3	MC #1 Flow (Cooley Hat)	8.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	18.2

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

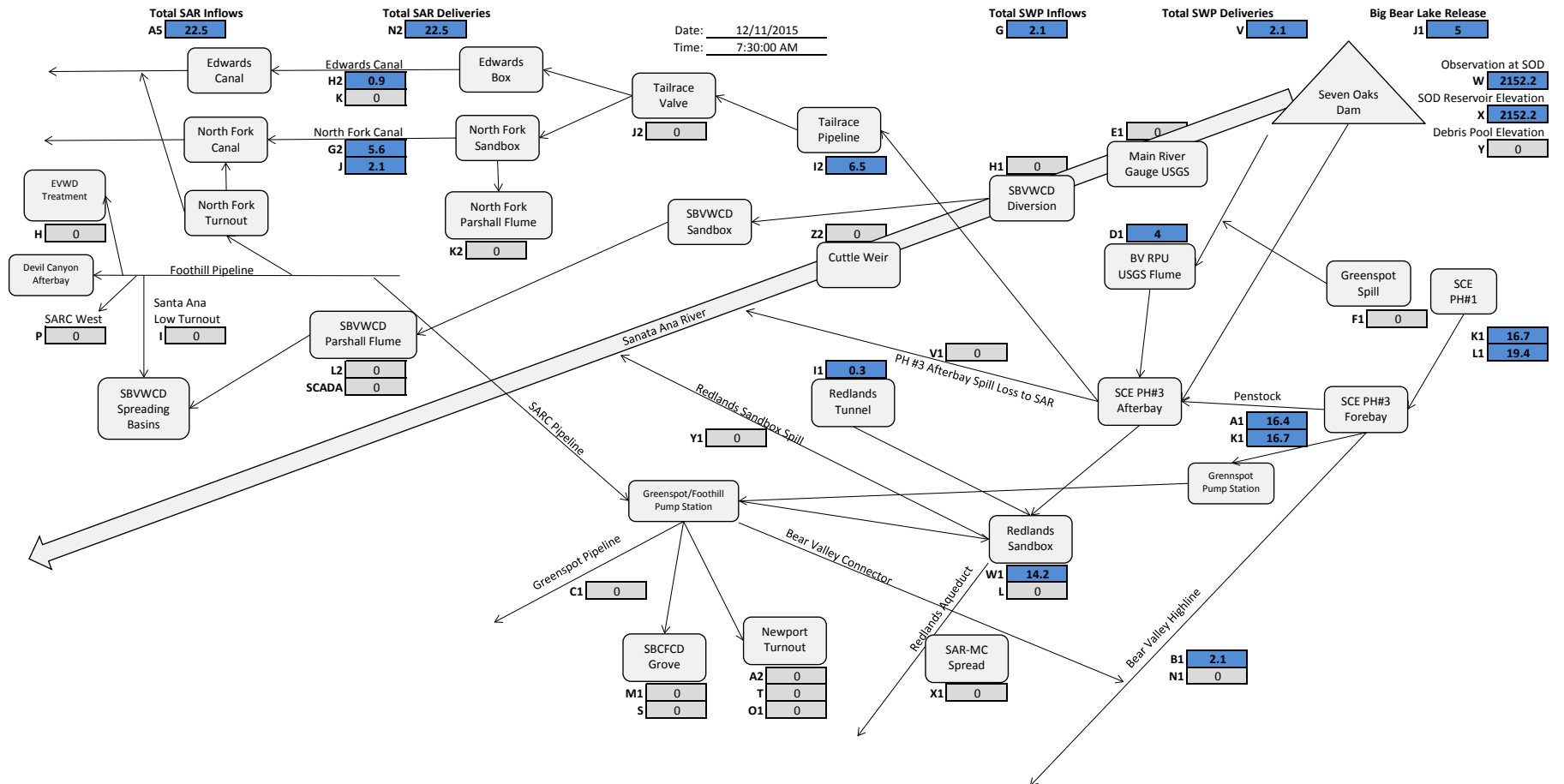
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	265.2	123,000	I4	2,513.3	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	K4	699.4	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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



Santa Ana River - Mill Creek Cooperative Water Project

Santa Ana Stations



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/12/2015

Time: 7:30:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	6.0
N2	Total SAR Deliveries	6.0
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	2.1
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	3.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	0.0
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.9
V	Total SWP Deliveries	2.9
J	Northfork Canal	2.1
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.8

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	10.7
U3	Total MC Deliveries	10.7
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	10.7

Reservoir Levels	Feet
Observation at SOD	2152.1
Crafton Reservoir Level (21.3)	20.6
Mentone Reservoir Level	20

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	265	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	44	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/12/2015
Time: 7:30:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	2.9	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.9	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.8
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.9

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	3.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	3.9	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	2.1	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.1
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)	3.9
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	2.1	Z1	SOD Release Subtotal	3.9	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	0.3	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2152.2	A5	Total SAR Inflows	6.0
minus			L1	SCE SAR AVM (SCADA)	5.5	X	SOD Reservoir Elevation (scada)	2152.1			
D1	BVMWC River PU (USGS)	3.9	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
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	SBCFCD Grove	0.0	G2	Northfork Canal Weir	3.0	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	0.3
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Z1	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	3.9	Parshall Flume (SCADA)			B1	BVMWC Highline	2.1
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	2.1	I2	Tailrace Pipeline	3.9
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	1.2	minus		
						C2	Irrigation	0.9	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	6.0

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	3.8	E3	M/C #1 Penstock Flow	10.7
B3	M/C #3 Penstock	6.9	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	10.7			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	9.2	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	10.7	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.5	U3	Total MC Deliveries	10.7	V3	Zanja West Weir to CWC Canal	0.2
			T3	MC #1 Flow (Cooley Hat)	10.7				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	20.6

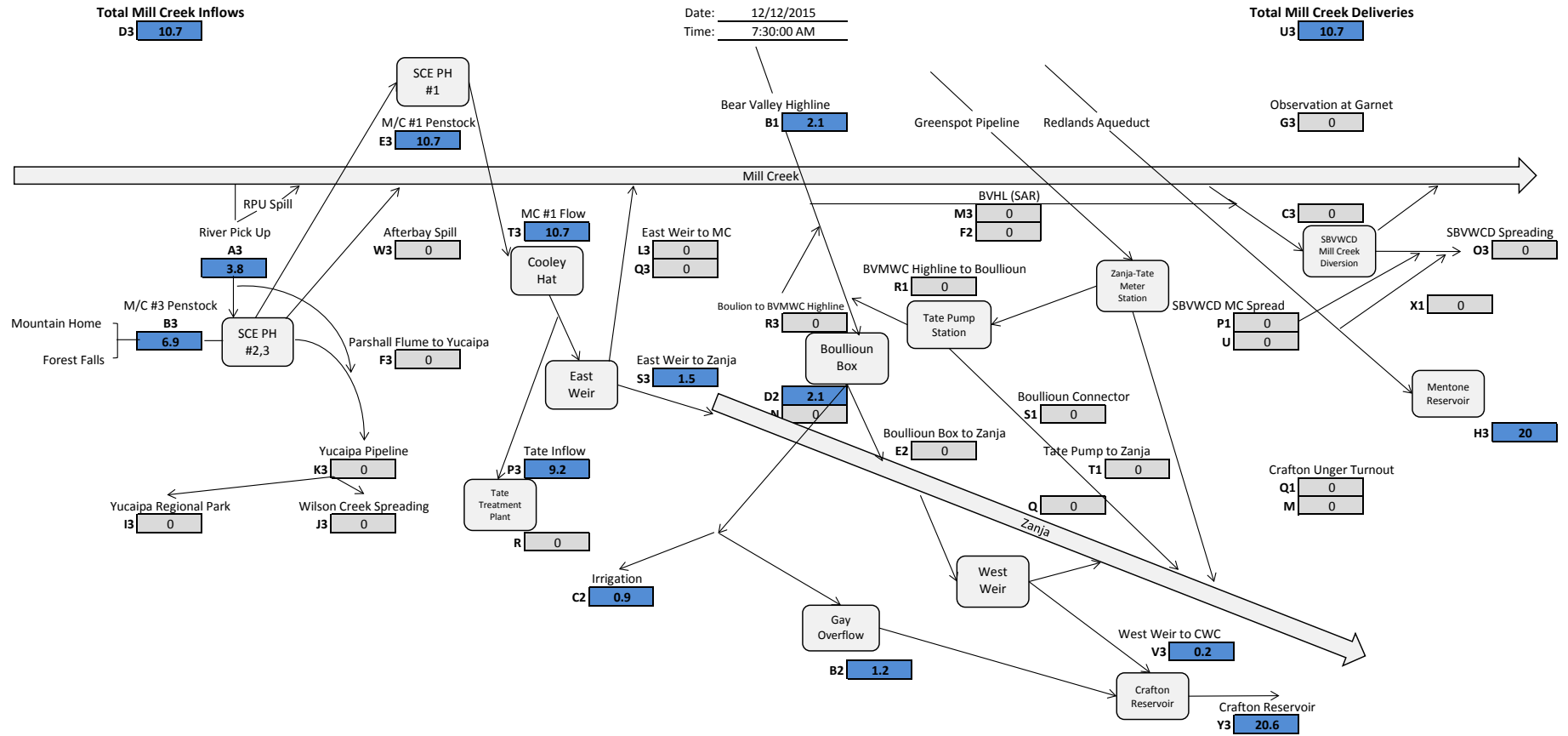
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	0.0

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	265.2	123,000	I4	2,513.3	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	K4	699.4	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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		

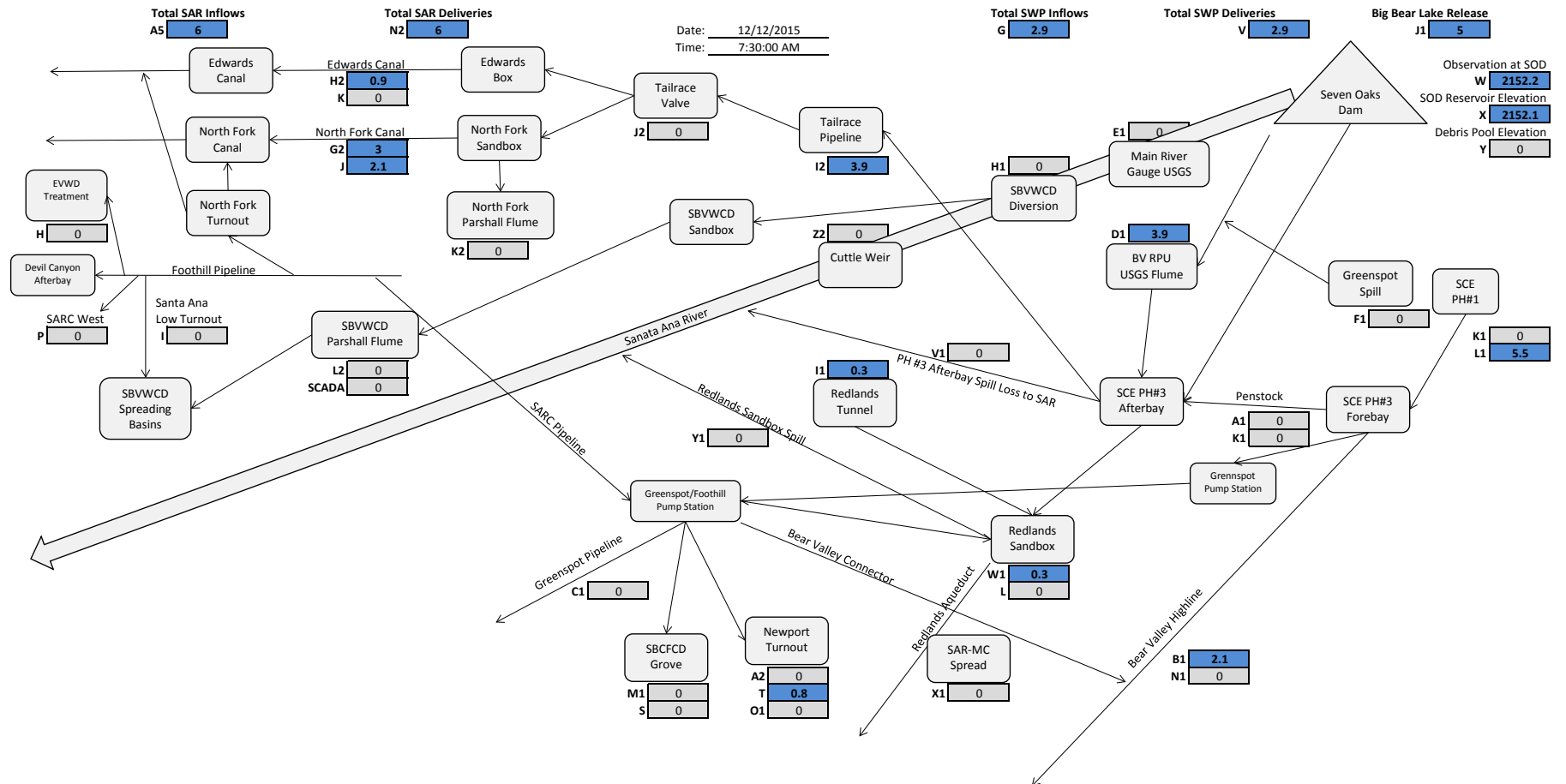
Santa Ana River - Mill Creek Cooperative Water Project

Mill Creek Stations



Santa Ana River - Mill Creek Cooperative Water Project

Santa Ana Stations



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/15/2015

Time: 8:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	17.4
N2	Total SAR Deliveries	17.4
A1	SAR PH#3 Penstock (calc)	11.1
B1	BVMWC Highline	2.1
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	1.8
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	13.5
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	3.1
V	Total SWP Deliveries	3.1
J	Northfork Canal	2.1
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	1.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	8.3
U3	Total MC Deliveries	8.3
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	8.3

Reservoir Levels	Feet
Observation at SOD	2153.3
Crafton Reservoir Level (21.3)	21.3
Mentone Reservoir Level	20

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	265	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	44	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/15/2015
Time: 8:00:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	3.1	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	3.1	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	1.0
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	3.1

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	1.8	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.2	A1	SAR PH #3 Penstock (calc)	11.1
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	2.1	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.1
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)	4.2
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	2.1	Z1	SOD Release Subtotal	4.2	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	13.7	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.1	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2152.2	A5	Total SAR Inflows	17.4
minus			L1	SCE SAR AVM (SCADA)	13.1	X	SOD Reservoir Elevation (scada)	2153.3			
D1	BVMWC River PU (USGS)	4.2	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	11.1									
K1	PH3# Penstock (SCADA)	11.9									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	1.8	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	0.0	W1	Redlands Aqueduct / Sandbox	13.7
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Z1	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	1.8	Parshall Flume (SCADA)			B1	BVMWC Highline	2.1
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	2.1	I2	Tailrace Pipeline	1.8
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	1.2	J2	Tailrace Valve to Parshall Flume	0.0
						C2	Irrigation	0.9	K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	17.4

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	3.1	E3	M/C #1 Penstock Flow	8.3
B3	M/C #3 Penstock	5.2	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	8.3			

Mill Creek Deliveries

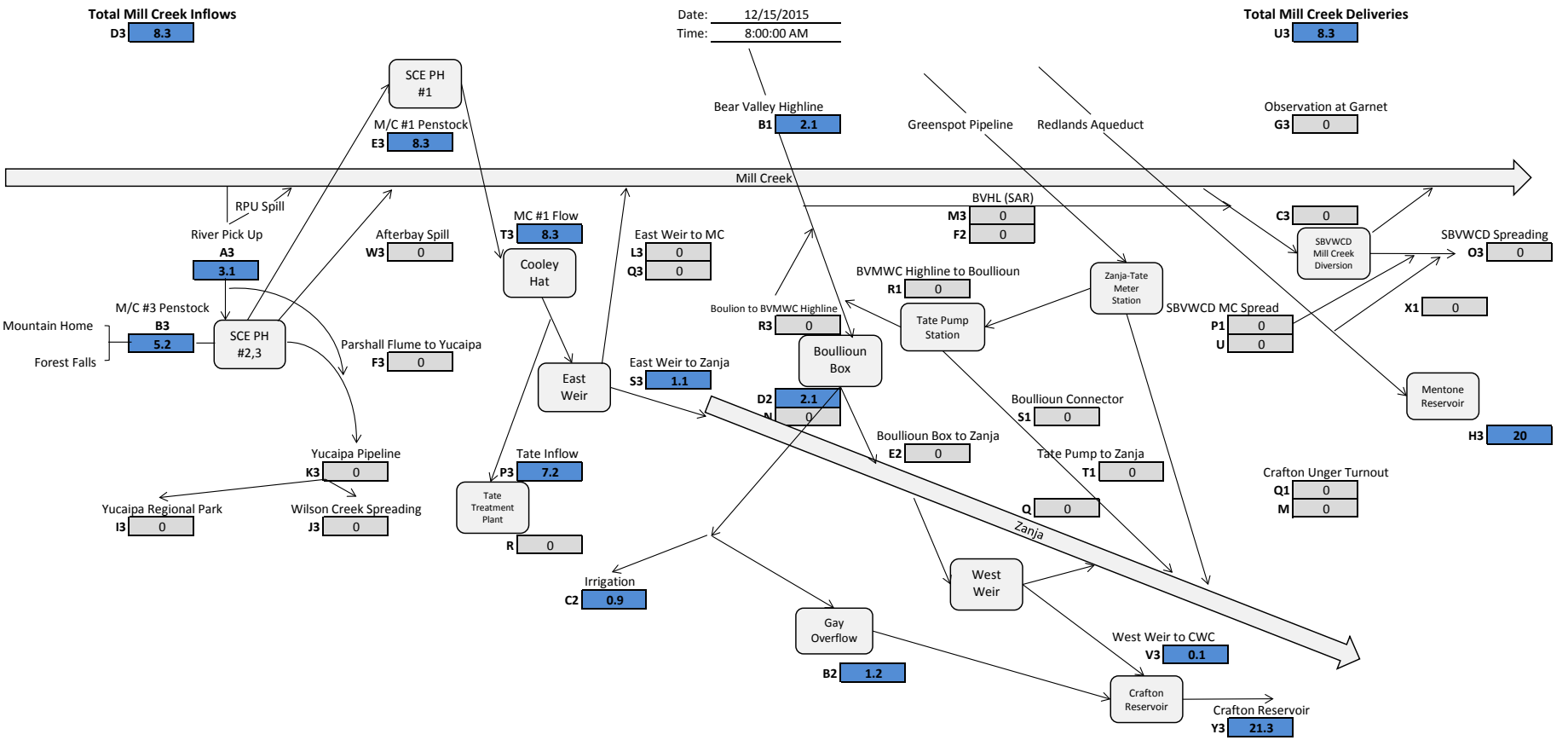
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.2	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	8.3	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.1	U3	Total MC Deliveries	8.3	V3	Zanja West Weir to CWC Canal	0.1
			T3	MC #1 Flow (Cooley Hat)	8.3				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	21.3

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

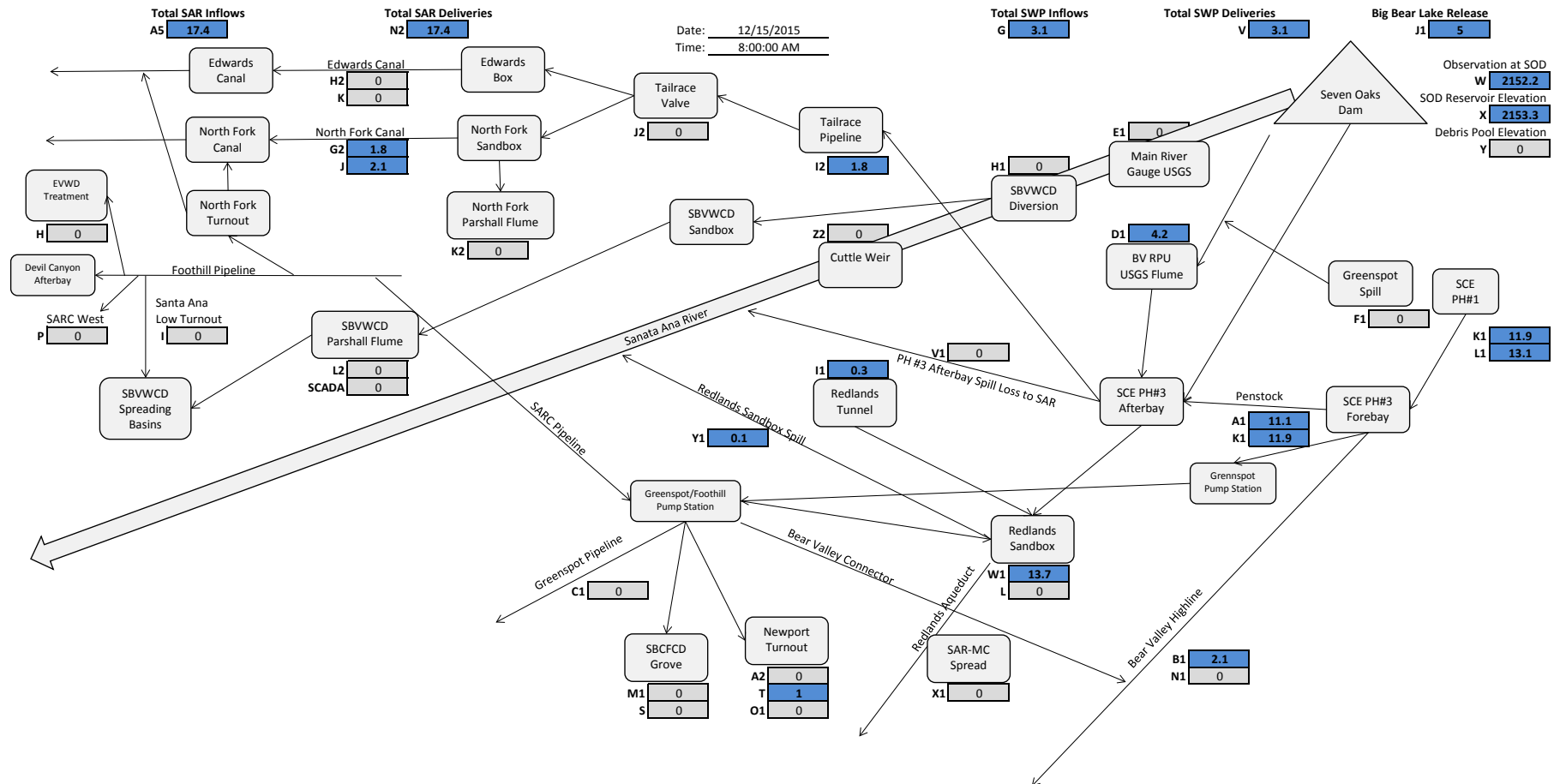
SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	265.2	123,000	I4	2,513.3	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	K4	699.4	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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



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



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/16/2015

Time: 6:35:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	15.6
N2	Total SAR Deliveries	15.6
A1	SAR PH#3 Penstock (calc)	9.4
B1	BVMWC Highline	1.7
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	1.6
G2	North Fork Canal Weir	3.5
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	8.8
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	3.1
V	Total SWP Deliveries	3.1
J	Northfork Canal	2.1
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	1.0

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	8.3
U3	Total MC Deliveries	8.3
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	1.3
T3	MC #1 Flow (Cooley Hat)	8.3

Reservoir Levels	Feet
Observation at SOD	2153.3
Crafton Reservoir Level (21.3)	19.6
Mentone Reservoir Level	20.1

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	268	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	47	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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. The Gay Overflow has more water than is being delivered by the Highline due to a well being on.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/16/2015
Time: 6:35:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	3.1	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	3.1	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	1.0
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	3.1

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	3.5	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.5	A1	SAR PH #3 Penstock (calc)	9.4
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	1.7	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	1.7
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	1.6	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	4.5
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	1.7	Z1	SOD Release Subtotal	4.5	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	9.0	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.1	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2152.2	A5	Total SAR Inflows	15.6
minus			L1	SCE SAR AVM (SCADA)	12.3	X	SOD Reservoir Elevation (scada)	2153.3			
D1	BVMWC River PU (USGS)	4.5	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	9.4									
K1	PH3# Penstock (SCADA)	9.9									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	3.5	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	1.6	W1	Redlands Aqueduct / Sandbox	9.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Z1	Redlands Sandbox Spill	0.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	1.6	L1	SBVWCD Parshall Flume	1.6	Y2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.1		Parshall Flume (SCADA)	1.3	B1	BVMWC Highline	1.7
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	1.7	I2	Tailrace Pipeline	5.1
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	1.6
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	2.5	minus		
						C2	Irrigation		J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	1.6
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	15.6

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	3.0	E3	M/C #1 Penstock Flow	8.3
B3	M/C #3 Penstock	5.3	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	8.3			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.1
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	1.3	T3	Mill Creek #1 Flow (Cooley Hat)	8.3	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	8.3	V3	Zanja West Weir to CWC Canal	0.1
			T3	MC #1 Flow (Cooley Hat)	8.3				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	19.6

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	1.3
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	1.3

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	3.0	I4	268.2	123,000	I4	2,516.3	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	2.5	K4	46.7	73,800	K4	701.9	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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

Daily Flow Report Summary

Date: 12/17/2015

Time: 7:35:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	19.1
N2	Total SAR Deliveries	19.1
A1	SAR PH#3 Penstock (calc)	13.3
B1	BVMWC Highline	1.7
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	3.8
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	12.8
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.7
V	Total SWP Deliveries	2.7
J	Northfork Canal	2.1
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.6

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	8.2
U3	Total MC Deliveries	8.2
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	1.2
T3	MC #1 Flow (Cooley Hat)	8.2

Reservoir Levels	Feet
Observation at SOD	2154.6
Crafton Reservoir Level (21.3)	20
Mentone Reservoir Level	19.2

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	268	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	49	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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. The Gay Overflow has more water than is being delivered by the Highline due to a well being on.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/17/2015
Time: 7:35:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	2.7	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.7	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.6
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.7

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	3.8	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.1	A1	SAR PH #3 Penstock (calc)	13.3
H2	Edwards Canal	0.8	D2	Boullioun Box Weir	1.7	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	1.7
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)	4.1
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	1.7	Z1	SOD Release Subtotal	4.1	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	13.0	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.1	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2152.2	A5	Total SAR Inflows	19.1
minus			L1	SCE SAR AVM (SCADA)	15.5	X	SOD Reservoir Elevation (scada)	2154.6			
D1	BVMWC River PU (USGS)	4.1	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	13.3									
K1	PH3# Penstock (SCADA)	13.0									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	3.8	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.8	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	13.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Z1	Redlands Sandbox Spill	0.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Y2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	4.6	Parshall Flume (SCADA)			B1	BVMWC Highline	1.7
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1		0.0				D2	Boullioun Box Weir	1.7	I2	Tailrace Pipeline	4.6
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	1.7	minus		
						C2	Irrigation	0.0	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	19.1

Crafton WC Boullioun

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	3.0	E3	M/C #1 Penstock Flow	8.2
B3	M/C #3 Penstock	5.2	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	8.2			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.2
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	1.2	T3	Mill Creek #1 Flow (Cooley Hat)	8.2	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	8.2	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	8.2				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	20.0

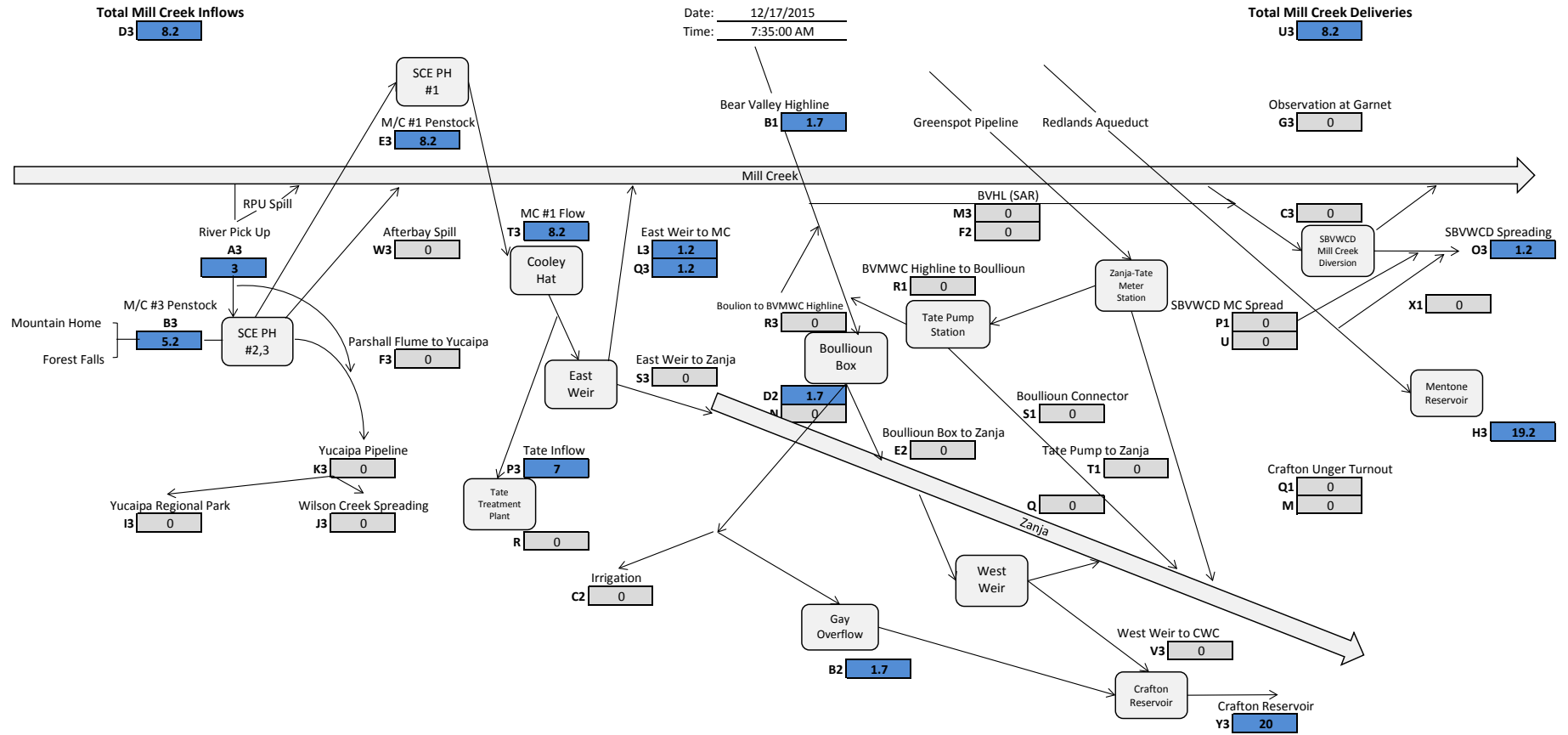
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	1.2
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	1.2

SBVWCD Recharge

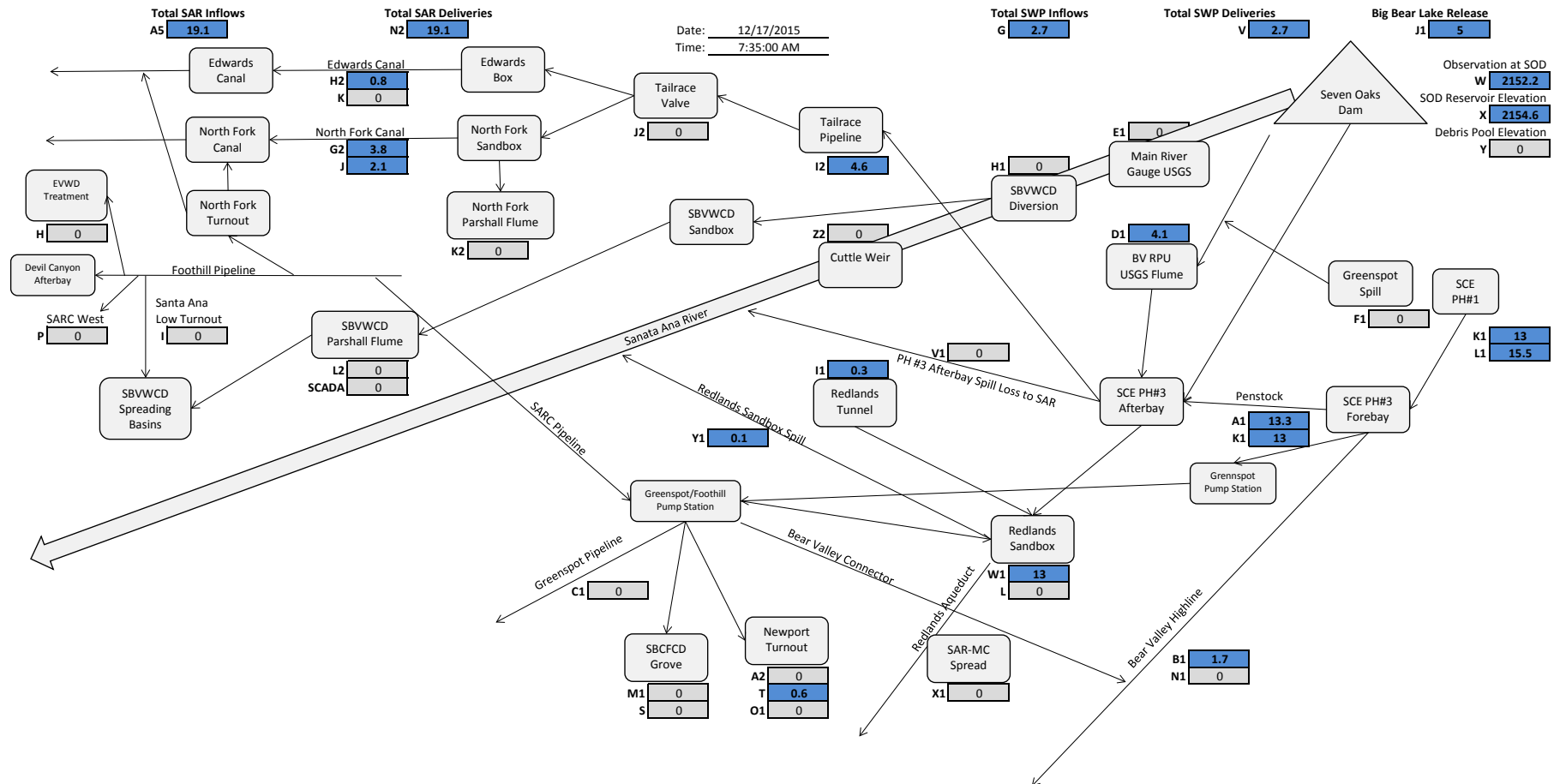
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.1	I4	268.3	123,000	I4	2,516.4	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	2.4	K4	49.1	73,800	K4	704.3	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
	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



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



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/18/2015

Time: 8:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	19.3
N2	Total SAR Deliveries	19.3
A1	SAR PH#3 Penstock (calc)	12.4
B1	BVMWC Highline	2.1
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	4.5
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	11.8
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.3
V	Total SWP Deliveries	2.3
J	Northfork Canal	1.9
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.4

Mill Creek		Flow Rate (cfs)
D3	Total MC Inflows	8.6
U3	Total MC Deliveries	8.6
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	2.0
T3	MC #1 Flow (Cooley Hat)	8.6

Reservoir Levels	Feet
Observation at SOD	2154.7
Crafton Reservoir Level (21.3)	21
Mentone Reservoir Level	19

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	268	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	53	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/18/2015
Time: 8:00:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	1.9
D	Purchased Water	2.3	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.3	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.4
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.3

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	4.5	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.8	A1	SAR PH #3 Penstock (calc)	12.4
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	2.1	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.1
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)	4.8
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	2.1	Z1	SOD Release Subtotal	4.8	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	12.0	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.1	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2154.0	A5	Total SAR Inflows	19.3
minus			L1	SCE SAR AVM (SCADA)	15.9	X	SOD Reservoir Elevation (scada)	2154.7			
D1	BVMWC River PU (USGS)	4.8	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	12.4									
K1	PH3# Penstock (SCADA)	12.3									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	4.5	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	12.0
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Z1	Redlands Sandbox Spill	0.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Y2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.4	Parshall Flume (SCADA)			B1	BVMWC Highline	2.1
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1		0.0				D2	Boullioun Box Weir	2.1	I2	Tailrace Pipeline	5.4
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	1.4	J2	Tailrace Valve to Parshall Flume	0.0
						C2	Irrigation	0.7	K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	19.3

Crafton WC Boullioun

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.9	E3	M/C #1 Penstock Flow	8.6
B3	M/C #3 Penstock	5.7	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	8.6			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	6.6	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	2.0	T3	Mill Creek #1 Flow (Cooley Hat)	8.6	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	8.6	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	8.6				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	21.0

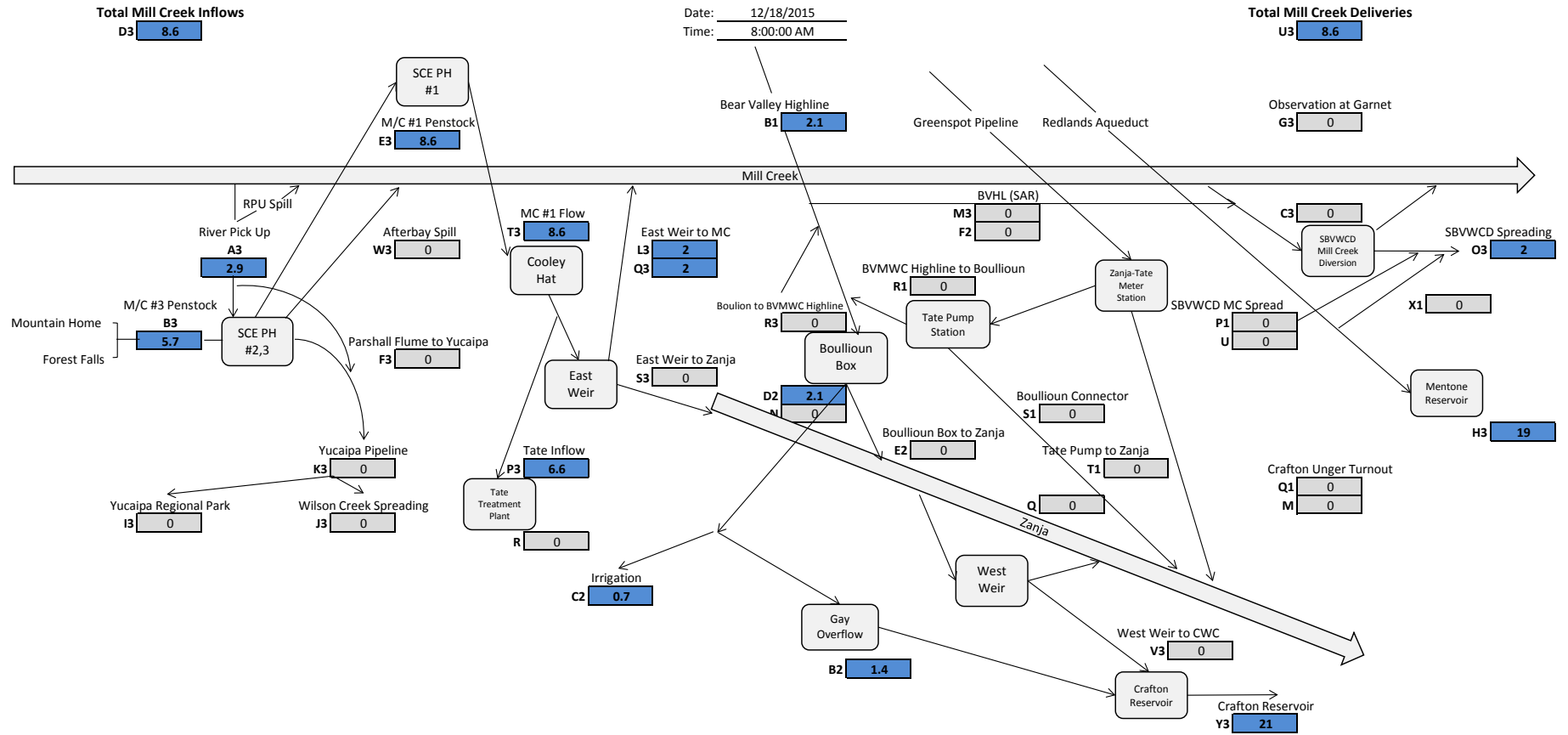
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	2.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	2.0

SBVWCD Recharge

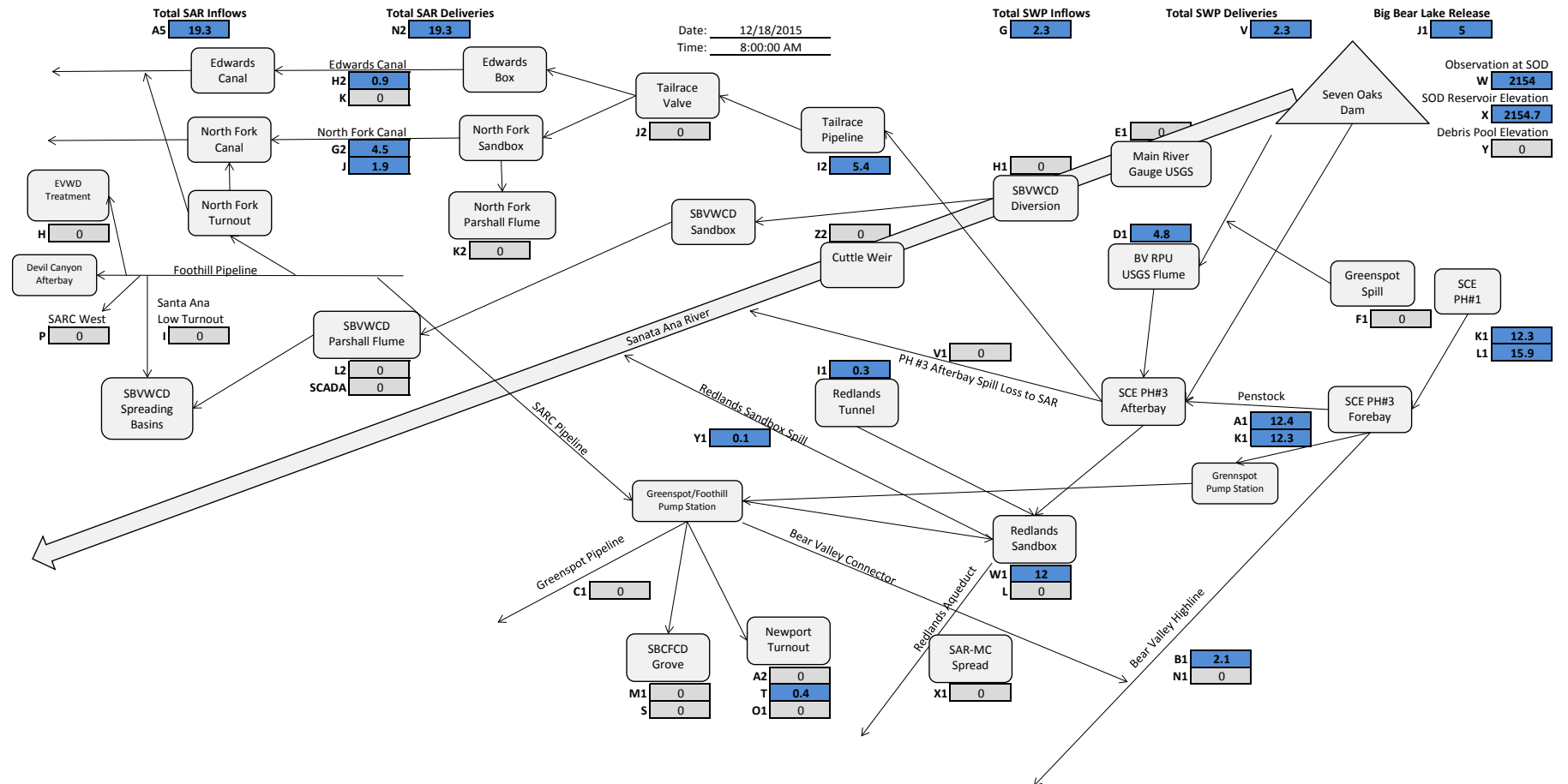
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	268.3	123,000	I4	2,516.4	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	4.0	K4	53.0	73,800	K4	708.2	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
	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



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



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/21/2015

Time: 8:00:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	21.4
N2	Total SAR Deliveries	21.4
A1	SAR PH#3 Penstock (calc)	14.6
B1	BVMWC Highline	2.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	4.4
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	14.1
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	1.9
V	Total SWP Deliveries	1.9
J	Northfork Canal	1.9
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	7.6
U3	Total MC Deliveries	7.6
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	2.0
T3	MC #1 Flow (Cooley Hat)	7.6

Reservoir Levels	Feet
Observation at SOD	2155.1
Crafton Reservoir Level (21.3)	20
Mentone Reservoir Level	19

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	268	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	65	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/21/2015
Time: 8:00:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	1.9
D	Purchased Water	1.9	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	1.9	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.0
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	1.9

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	4.4	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.8	A1	SAR PH #3 Penstock (calc)	14.6
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	2.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.0
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	0.3	D1	BVMWC River PU (USGS)	4.8
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	2.0	Z1	SOD Release Subtotal	4.5	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	14.3	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.1	J1	Big Bear Lake Release	5.0	w	Observation at SOD	2155.0	A5	Total SAR Inflows	21.4
minus			L1	SCE SAR AVM (SCADA)	16.6	x	SOD Reservoir Elevation (scada)	2155.1			
D1	BVMWC River PU (USGS)	4.8	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	14.6									
K1	PH3# Penstock (SCADA)	14.6									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	4.4	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.9	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	14.3
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Z1	Redlands Sandbox Spill	0.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Y2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.3	Parshall Flume (SCADA)			B1	BVMWC Highline	2.0
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1		0.0				D2	Boullioun Box Weir	2.0	I2	Tailrace Pipeline	5.3
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	2.0	J2	Tailrace Valve to Parshall Flume	0.0
						C2	Irrigation	0.0	K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	21.4

Crafton WC Boullioun

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	3.0	E3	M/C #1 Penstock Flow	7.6
B3	M/C #3 Penstock	4.6	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	7.6			

Mill Creek Deliveries

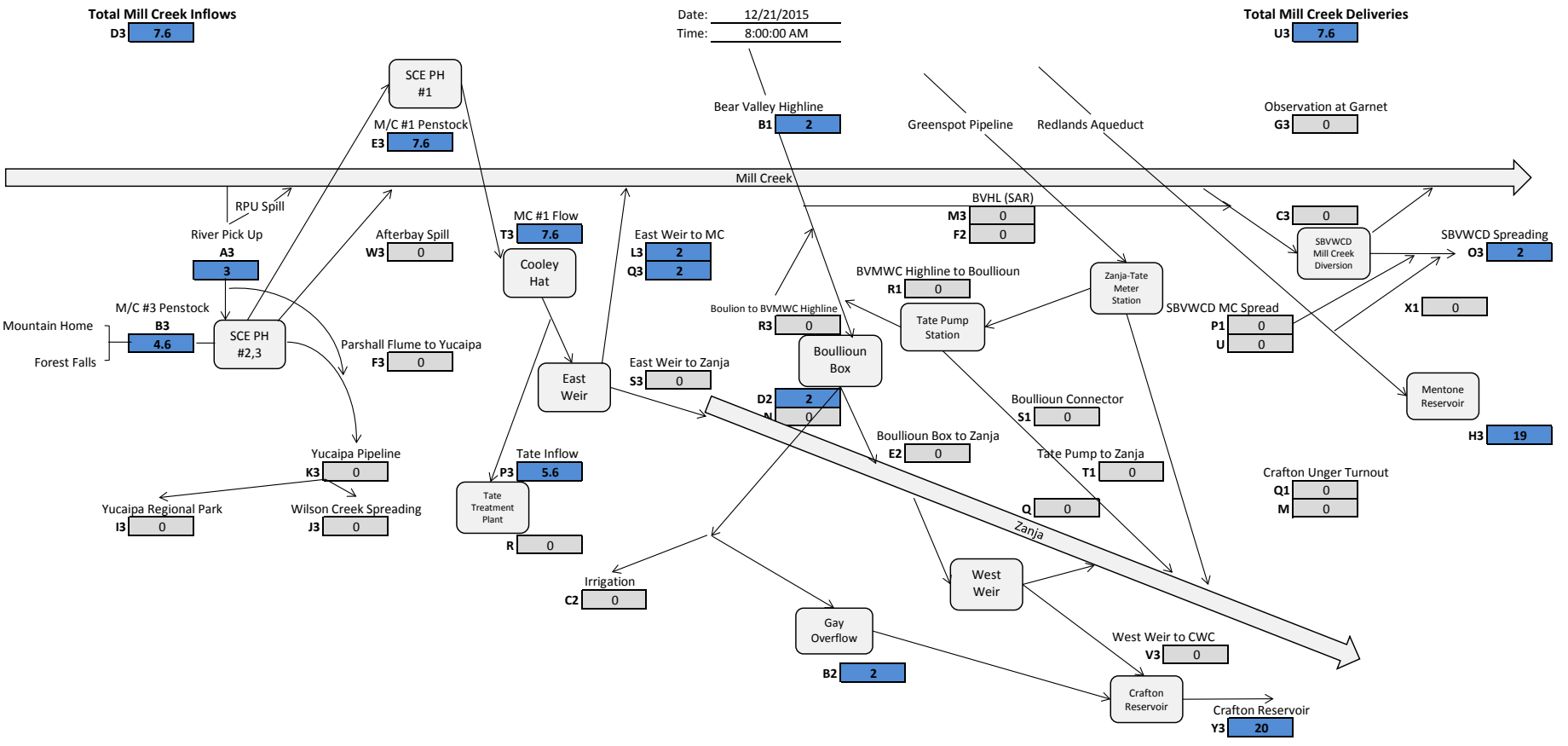
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	5.6	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	2.0	T3	Mill Creek #1 Flow (Cooley Hat)	7.6	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	7.6	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	7.6				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	20.0

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	2.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	2.0

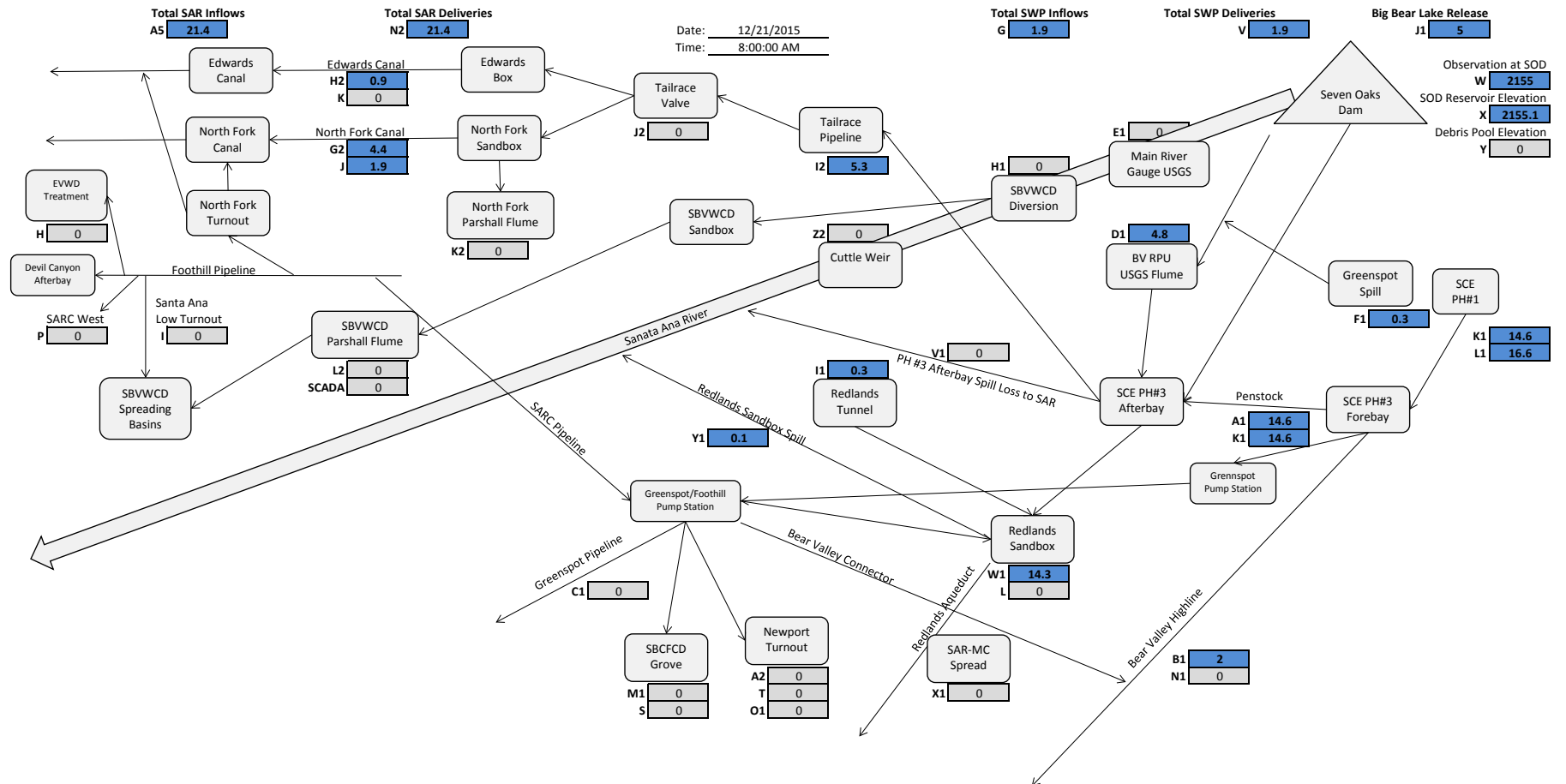
SBVWCD Recharge

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	268.3	123,000	I4	2,516.4	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	11.9	K4	64.9	73,800	K4	720.1	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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



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



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/2/2015
Time: 7:15:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	3.0
D	Purchased Water	4.1	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	4.1	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	1.1
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	4.1

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	4.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	5.0	A1	SAR PH #3 Penstock (calc)	15.0
H2	Edwards Canal	0.8	D2	Boullioun Box Weir	3.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	3.0
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	1.9	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	5.0
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	3.0	Z1	SOD Release Subtotal	5.0	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	13.6	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	w	Observation at SOD	2154.1	A5	Total SAR Inflows	23.0
minus			L1	SCE SAR AVM (SCADA)	19.9	x	SOD Reservoir Elevation (scada)	2154.0			
D1	BVMWC River PU (USGS)	5.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	15.0									
K1	PH3# Penstock (SCADA)	16.9									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	4.0	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.8	K2	Northfork Parshall Flume	1.9	W1	Redlands Aqueduct / Sandbox	13.6
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	1.9	L2	SBVWCD Parshall Flume	1.9	Z1	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	6.7		Parshall Flume (SCADA)	1.9	B1	BVMWC Highline	3.0
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	3.0	I2	Tailrace Pipeline	6.7
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	1.9
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	2.8	minus		
						C2	Irrigation	0.2	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	1.9
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	23.0

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.8	E3	M/C #1 Penstock Flow	8.7
B3	M/C #3 Penstock	5.9	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	8.7			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.0	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)	8.7	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.7	U3	Total MC Deliveries	8.7	V3	Zanja West Weir to CWC Canal	0.6
			T3	MC #1 Flow (Cooley Hat)	8.7				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	17.0

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	2.8	I4	256.6	123,000	I4	2,472.4	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	K4	699.4	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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

Daily Flow Report Summary

Date: 12/22/2015

Time: 6:50:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	22.1
N2	Total SAR Deliveries	22.1
A1	SAR PH#3 Penstock (calc)	15.4
B1	BVMWC Highline	2.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	4.3
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	15.0
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.1
V	Total SWP Deliveries	2.1
J	Northfork Canal	2.1
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	8.9
U3	Total MC Deliveries	8.9
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	3.4
T3	MC #1 Flow (Cooley Hat)	8.9

Reservoir Levels	Feet
Observation at SOD	2155.23
Crafton Reservoir Level (21.3)	19.6
Mentone Reservoir Level	21.9

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	268	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	70	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/22/2015
Time: 6:50:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	2.1	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.1	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.0
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.1

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	4.3	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.7	A1	SAR PH #3 Penstock (calc)	15.4
H2	Edwards Canal	0.8	D2	Boullioun Box Weir	2.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.0
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	0.4	D1	BVMWC River PU (USGS)	4.7
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	2.0	Z1	SOD Release Subtotal	4.3	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	15.2	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.1	J1	Big Bear Lake Release	5.0	W	Observation at SOD		A5	Total SAR Inflows	22.1
minus			L1	SCE SAR AVM (SCADA)	18.3	X	SOD Reservoir Elevation (scada)	2155.2			
D1	BVMWC River PU (USGS)	4.7	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	15.4									
K1	PH3# Penstock (SCADA)	15.1									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	4.3	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.8	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	15.2
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Z1	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.1		Parshall Flume (SCADA)	0.0	B1	BVMWC Highline	2.0
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	2.0	I2	Tailrace Pipeline	5.1
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	2.2	minus		
						C2	Irrigation	0.0	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	22.1

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	3.2	E3	M/C #1 Penstock Flow	8.9
B3	M/C #3 Penstock	5.7	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	8.9			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	5.5	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	21.9
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	3.4	T3	Mill Creek #1 Flow (Cooley Hat)	8.9	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	8.9	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	8.9				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	19.6

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	3.4
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	3.4

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	268.3	123,000	I4	2,516.4	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	4.8	K4	69.7	73,800	K4	724.9	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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

Daily Flow Report Summary

Date: 12/23/2015

Time: 7:45:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	26.5
N2	Total SAR Deliveries	26.5
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	2.4
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	10.0
G2	North Fork Canal Weir	1.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	13.1
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.1
V	Total SWP Deliveries	2.1
J	Northfork Canal	2.1
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	10.0
U3	Total MC Deliveries	10.0
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	10.0
T3	MC #1 Flow (Cooley Hat)	0.0

Reservoir Levels	Feet
Observation at SOD	2155.23
Crafton Reservoir Level (21.3)	21.3
Mentone Reservoir Level	20

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	283	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	86	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/23/2015
Time: 7:45:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	2.1	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.1	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.0
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.1

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	1.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	21.0	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	2.4	E1	Main River Gage (USGS)	3.1	B1	BVMWC Highline	2.4
J2	Tailrace Valve to Parshall Flume	6.9	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	18.6	D1	BVMWC River PU (USGS)	21.0
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	2.4	Z1	SOD Release Subtotal	5.5	E1	Main River Gage (USGS)	3.1
W1	Redlands Aqueduct / Sandbox	13.3	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.1	J1	Big Bear Lake Release	5.0	W	Observation at SOD		A5	Total SAR Inflows	26.5
minus			L1	SCE SAR AVM (SCADA)	24.8	X	SOD Reservoir Elevation (scada)	2155.2			
D1	BVMWC River PU (USGS)	21.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
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	SBCFCD Grove	0.0	G2	Northfork Canal Weir	1.0	J2	Tailrace Valve to Parshall Flume	6.9	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	13.3
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	6.9	H1	SBVWCD Diversion	3.1	Y1	Redlands Sandbox Spill	0.1
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	10.0	Z1	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	7.9		Parshall Flume (SCADA)	11.0	B1	BVMWC Highline	2.4
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	2.4	I2	Tailrace Pipeline	7.9
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	10.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	2.2	minus		
						C2	Irrigation	0.2	J2	Tailrace Valve to Parshall Flume	6.9
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	26.5

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	0.0
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	10.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	10.0			

Mill Creek Deliveries

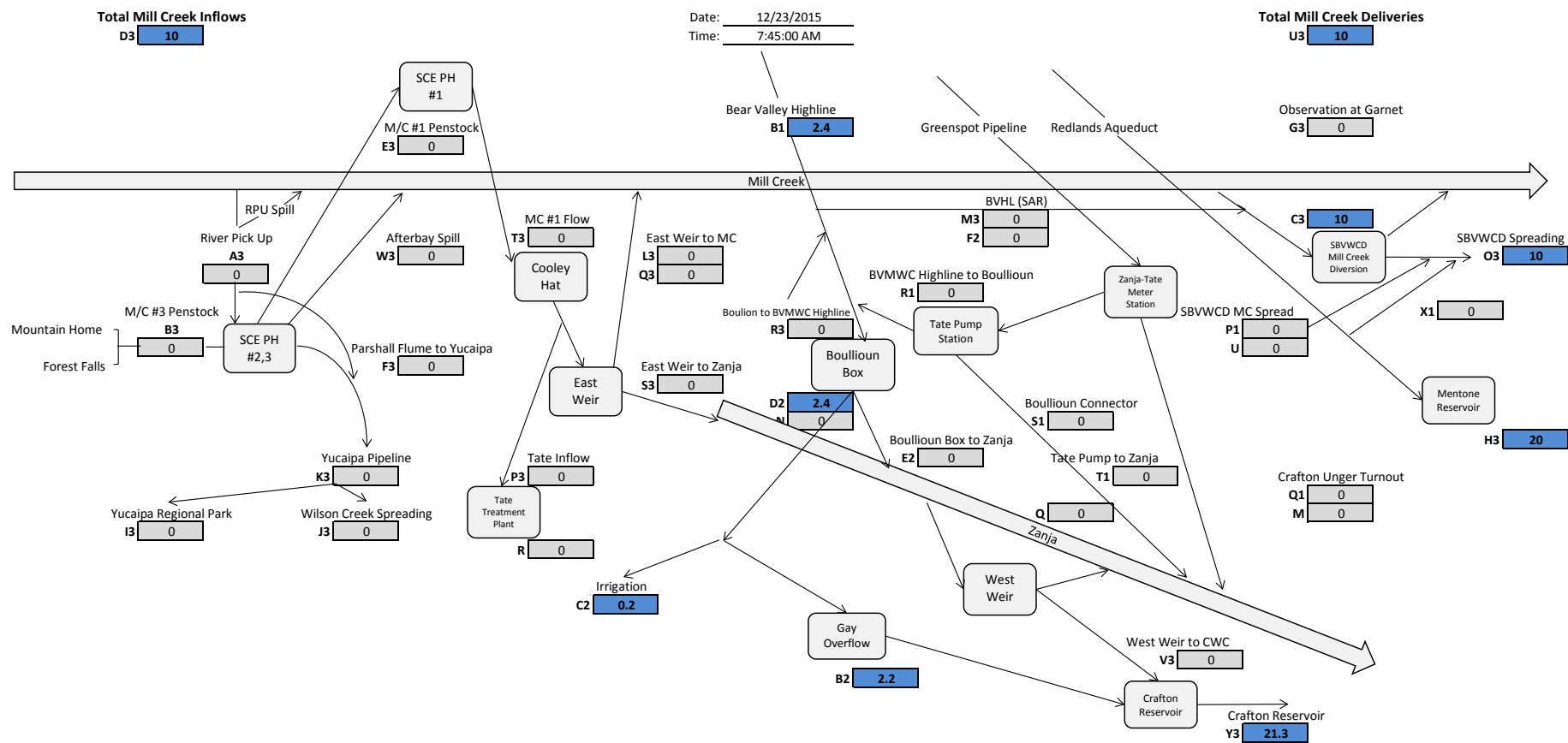
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	10.0	H3	Mentone Reservoir Level	20.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	0.0	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	10.0	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	0.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	21.3

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	10.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	10.0

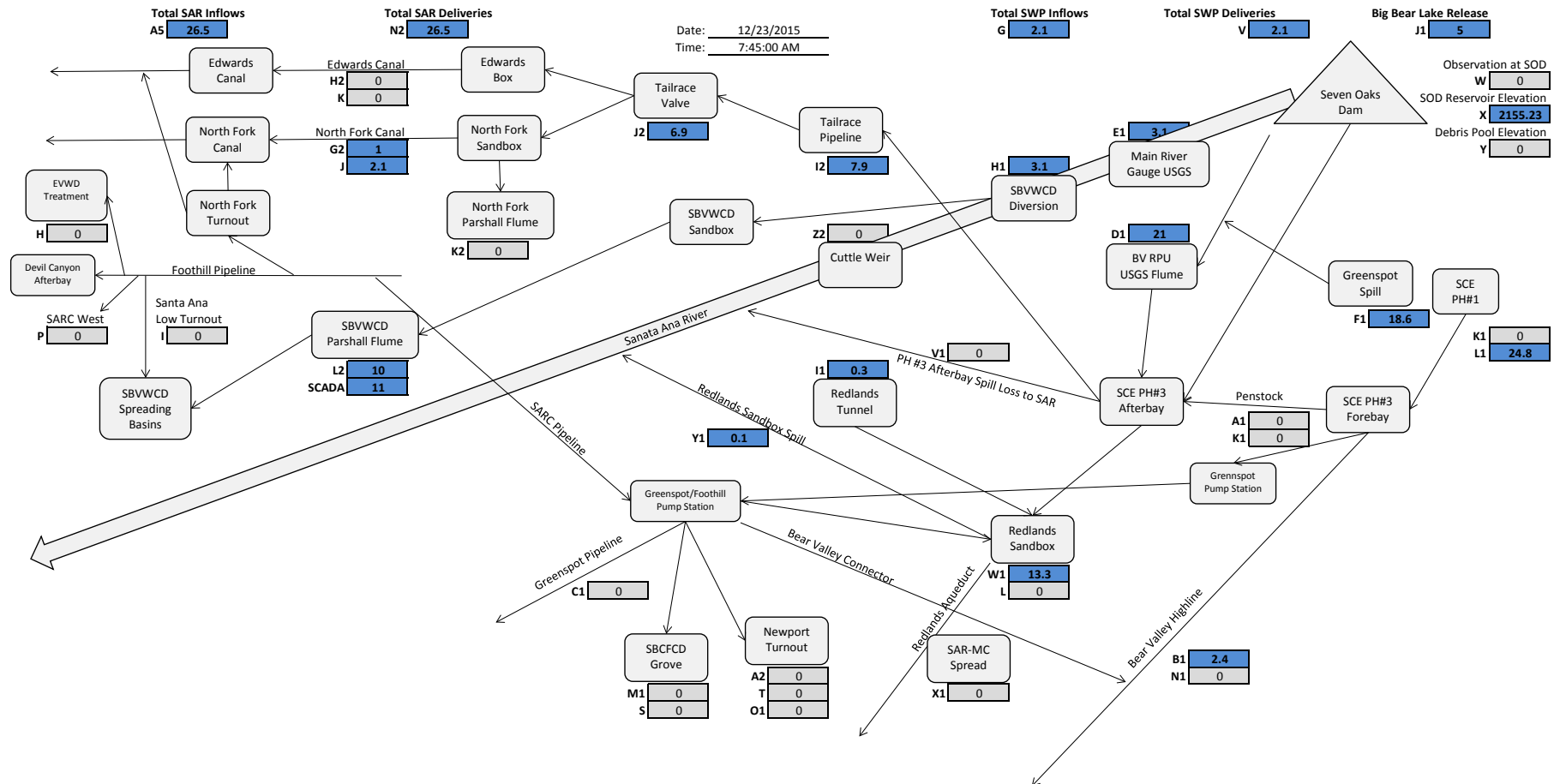
SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	14.3	I4	282.7	123,000	I4	2,530.8	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	16.1	K4	85.7	73,800	K4	740.9	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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



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



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/28/2015

Time: 7:35:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	21.2
N2	Total SAR Deliveries	21.2
A1	SAR PH#3 Penstock (calc)	14.1
B1	BVMWC Highline	2.9
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	4.4
G2	North Fork Canal Weir	1.8
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	12.1
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.1
V	Total SWP Deliveries	2.1
J	Northfork Canal	2.1
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	7.0
U3	Total MC Deliveries	7.0
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	7.0
T3	MC #1 Flow (Cooley Hat)	0.0

Reservoir Levels	Feet
Observation at SOD	2156.4
Crafton Reservoir Level (21.3)	14.6
Mentone Reservoir Level	19

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	332	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	163	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/28/2015
Time: 7:35:00 AM

State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1
D	Purchased Water	2.1	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	Total SWP Inflows	2.1	N	BVMWC Boullioun Box	0.0
			P	SARC West	0.0
			Q	Zanja	0.0
			R	Tate Treatment Plant	0.0
			S	SBCFCD Grove	0.0
			T	Newport for BVMWC	0.0
			U	M/C spreading at Zanja Tate	0.0
			V	Total SWP Deliveries	2.1

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	1.8	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.2	A1	SAR PH #3 Penstock (calc)	14.1
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	2.9	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.9
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	4.4	F2	SBVWCD Mill Creek Spreading	0.0	F1	Greenspot Spill	0.0	D1	BVMWC River PU (USGS)	4.2
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	2.9	Z1	SOD Release Subtotal	4.2	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	12.4	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	W	Observation at SOD	2155.8	A5	Total SAR Inflows	21.2
minus			L1	SCE SAR AVM (SCADA)	16.0	X	SOD Reservoir Elevation (scada)	2156.4			
D1	BVMWC River PU (USGS)	4.2	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	14.1									
K1	PH3# Penstock (SCADA)	12.7									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	1.8	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	4.4	W1	Redlands Aqueduct / Sandbox	12.4
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	4.4	L2	SBVWCD Parshall Flume	4.4	Z1	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	6.2		Parshall Flume (SCADA)	4.1	B1	BVMWC Highline	2.9
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	2.9	I2	Tailrace Pipeline	6.2
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	4.4
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	0.3	minus		
						C2	Irrigation	2.6	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	4.4
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	21.2

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	0.0
B3	M/C #3 Penstock	0.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	7.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	7.0			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	7.0	H3	Mentone Reservoir Level	19.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	0.0	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.0	U3	Total MC Deliveries	7.0	V3	Zanja West Weir to CWC Canal	0.0
			T3	MC #1 Flow (Cooley Hat)	0.0				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	14.6

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	7.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	7.0

SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	48.9	I4	331.6	123,000	I4	2,579.7	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	77.5	K4	163.2	73,800	K4	740.9	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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

Daily Flow Report Summary

Date: 12/29/2015

Time: 7:15:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	19.9
N2	Total SAR Deliveries	19.9
A1	SAR PH#3 Penstock (calc)	13.3
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	4.0
G2	North Fork Canal Weir	1.5
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	11.4
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	2.1
V	Total SWP Deliveries	2.1
J	Northfork Canal	2.1
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	7.0
U3	Total MC Deliveries	7.0
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	7.0
T3	MC #1 Flow (Cooley Hat)	3.0

Reservoir Levels	Feet
Observation at SOD	2155.23
Crafton Reservoir Level (21.3)	15
Mentone Reservoir Level	19.3

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	340	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	177	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Daily Flow Report

12/29/2015
7:15:00 AM

State Water Project

Inflows			Deliveries					
A	BBMWD In-lieu	0.0	H	EVWD Treatment Plant	0.0	P	SARC West	0.0
B	Muni test at Greenspot Station	0.0	I	Santa Ana Low Turnout	0.0	Q	Zanja	0.0
C	Exchange Water	0.0	J	Northfork Canal	2.1	R	Tate Treatment Plant	0.0
D	Purchased Water	2.1	K	Edwards Canal	0.0	S	SBCFCD Grove	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	0.0	T	Newport for BVMWC	0.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0	U	M/C spreading at Zanja Tate	0.0
G	Total SWP Inflows	2.1	N	BVMWC Bouliouin Box	0.0	V	Total SWP Deliveries	2.1

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	1.5	A2	Newport	0.0	D1	BVMWC River PU (USGS)	3.6	A1	SAR PH #3 Penstock (calc)	13.3
H2	Edwards Canal	0.0	E2	Boullioun Box Weir	3.0	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	3.0
J2	Tailrace Valve to Parshall Flume	4.0	D2	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	0.2	D1	BVMWC River PU (USGS)	3.6
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline	3.0	Z1	SOD Release Subtotal	3.4	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	11.5	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.2							A5	Total SAR Inflows	
minus			J1	Big Bear Lake Release	5.0	W	Observation at SOD				
D1	BVMWC River PU (USGS)	3.6	L1	SCE SAR AVM (SCADA)	15.0	X	SOD Reservoir Elevation (scada)	2155.2			
I1	Redlands Tunnel	0.3	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
A1	SAR PH #3 Penstock (calc)	13.3									
K1	PH3# Penstock (SCADA)	12.4									

Santa Ana River Deliveries

Greenspot Pipeline		
M1	SBCFCD Grove	0.0
N1	BVMWC Highline	0.0
O1	Newport for BVMWC	0.0
P1	SBVWCD Mill Creek Spreading	0.0
Q1	Crafton WC Unger Lane	0.0
R1	BVMWC Highline to Boullioun	0.0
S1	Crafton WC Boullioun	0.0
T1	Tate Pump Station to Zanja	0.0
C1	Greenspot Pipeline	0.0

Tailrace Pipeline		
G2	Northfork Canal Weir	1.5
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	4.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	5.5

SBVWCD Parshall FlumeTo Basins		
J2	Tailrace Valve to Parshall Flume	4.0
K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	0.0
L2	SBVWCD Parshall Flume	4.0
	Parshall Flume (SCADA)	4.0

Irrigation		
D2	Boullioun Box Weir	3.0
		minus
B2	Gay Overflow	2.2
C2	Irrigation	0.8

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	11.5
Y1	Redlands Sandbox Spill	0.2
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	5.5
L2	SBVWCD Parshall Flume	4.0
		minus
J2	Tailrace Valve to Parshall Flume	4.0
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	0.3
N2	Total SAR Deliveries	19.9

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	0.0	E3	M/C #1 Penstock Flow	3.0
B3	M/C #3 Penstock	3.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	4.0	G3	Observation at Garnet	0.0
D3	Total MC Inflows	7.0			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
i3	Yucaipa Regional Park	0.0	p3	Tate Inflow	0.0	c3	SBVWCD Mill Creek Diversion	4.0	h3	Mentone Reservoir Level	19.3
j3	Wilson Creek Spreading	0.0	q3	East Weir to Mill Creek	3.0	t3	Mill Creek #1 Flow (Cooley Hat)	3.0	r3	Boullion to BVMWC Highline	0.0
k3	Yucaipa Pipeline	0.0	s3	East Weir to Zanja	0.0	u3	Total MC Deliveries	7.0	v3	Zanja West Weir to CWC Canal	0.0
SBVWCD MC Spreading			t3	MC #1 Flow (Cooley Hat)	3.0				w3	Mill Creek PH #2,3 Afterbay Spill	0.0
									y3	Crafton Reservoir Level (21.3)	15.0

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	4.0
L3	East Weir (MC)	3.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	7.0

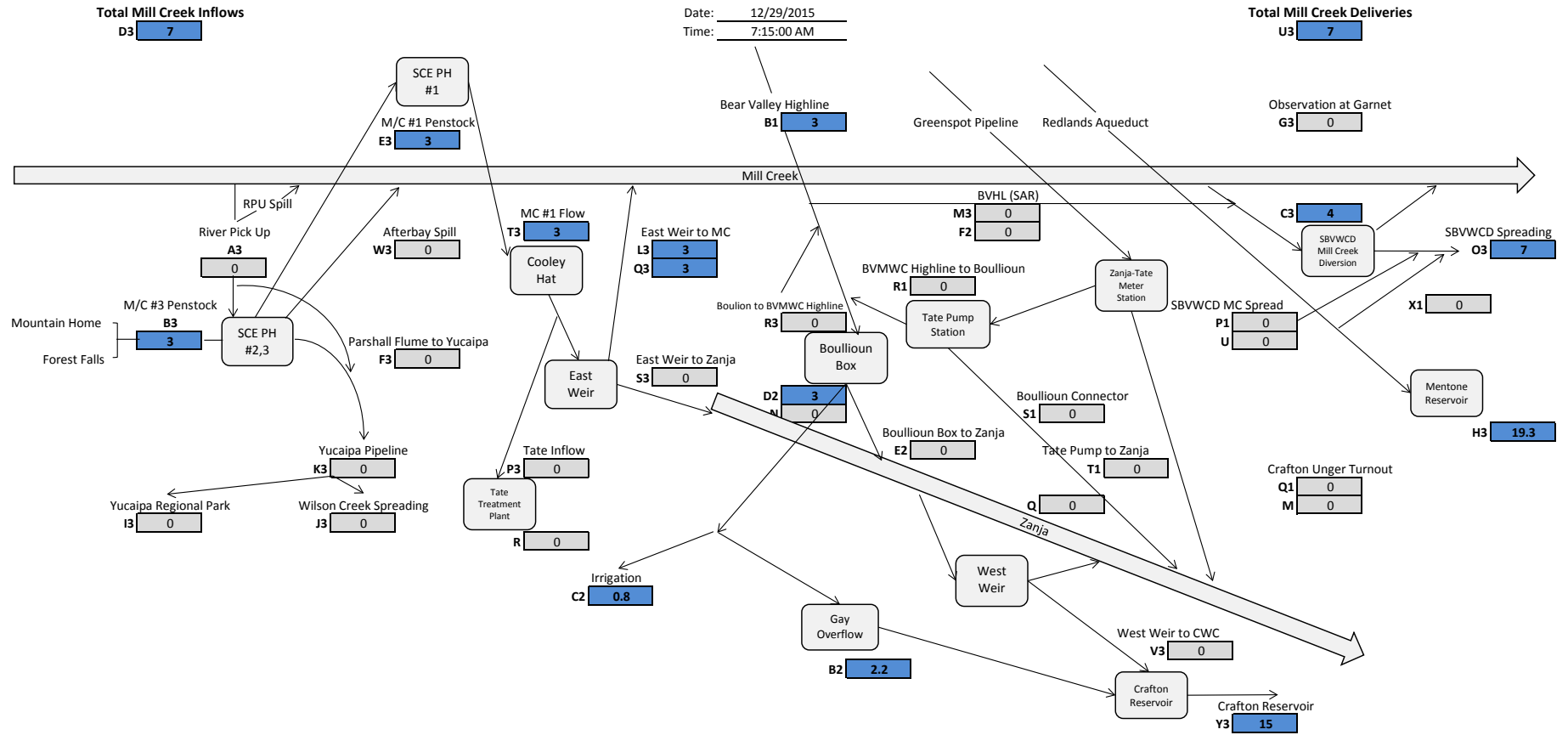
SBVWCD Recharge

SARFES Release										
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	7.9	I4	339.5	123,000	I4	2,587.6	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	13.9	K4	177.1	73,800	K4	832.3	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								

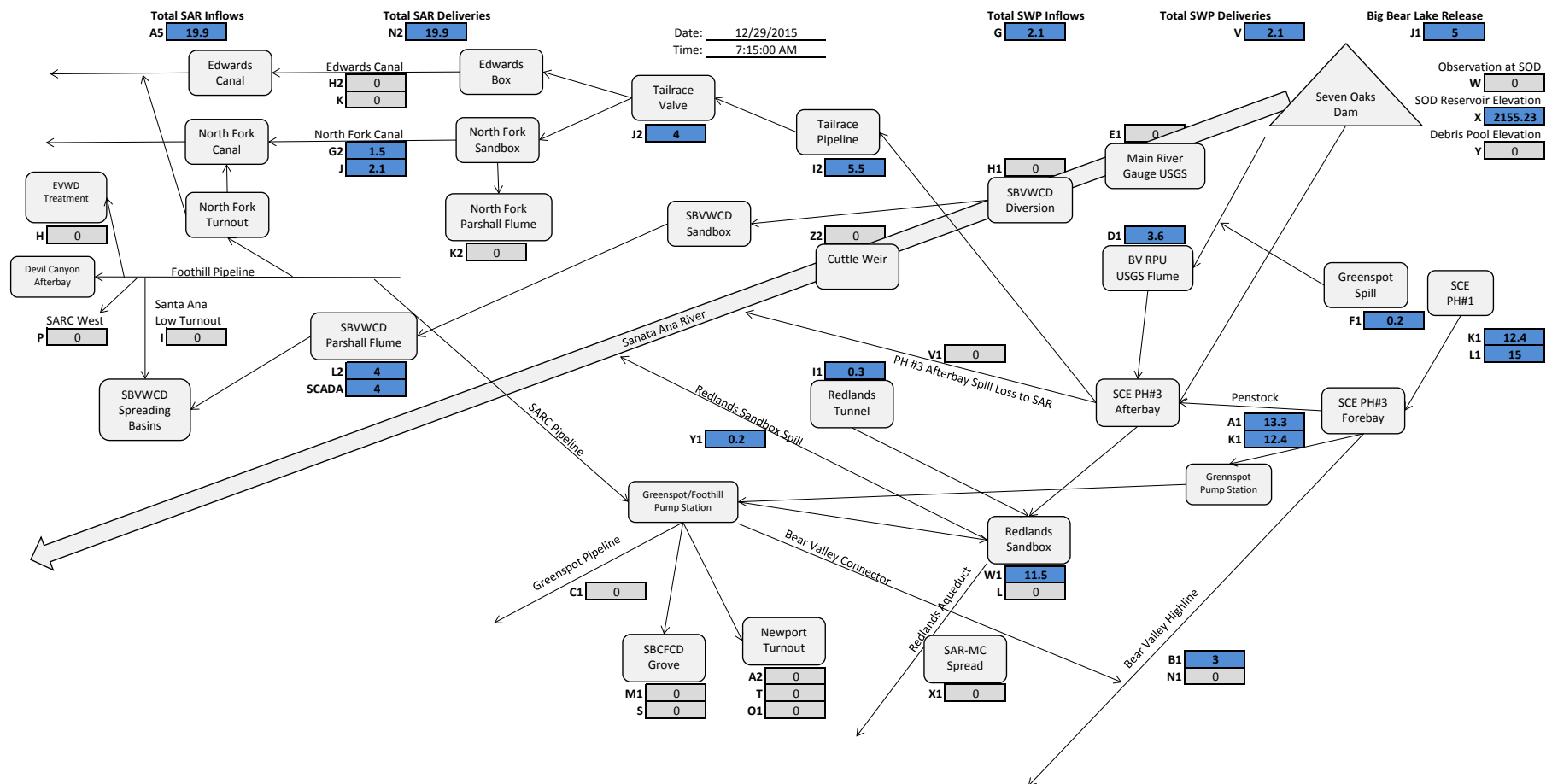
SAR Passing Cuttle Weir	0	Share of Lost Flow	0	Estimate SAR Recharge	0
Mill Creek Passing Garnet	0	Share of Lost Flow	0	Estimate Mill Creek Recharge	0
Flow in the River Above Alabama	0	Flowing Beyond Alabama	0	Total River Recharge	0

Santa Ana River - Mill Creek Cooperative Water Project

Mill Creek Stations



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



Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report Summary

Date: 12/30/2015

Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
A5	Total SAR Inflows	19.7
N2	Total SAR Deliveries	19.7
A1	SAR PH#3 Penstock (calc)	12.6
B1	BVMWC Highline	2.9
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	5.6
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	11.2
	Other	0.0

State Water Project		Flow Rate (cfs)
G	Total SWP Inflows	0.0
V	Total SWP Deliveries	0.0
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	6.9
U3	Total MC Deliveries	6.9
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	1.0
T3	MC #1 Flow (Cooley Hat)	6.9

Reservoir Levels	Feet
Observation at SOD	2156.53
Crafton Reservoir Level (21.3)	16.5
Mentone Reservoir Level	19.8

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	340	123,000
Santa Ana River to Mill Creek	SAR-MC	0	0
Santa Ana River	SWP	0	0
Mill Creek	MC	179	73,800
Mill Creek	SWP	0	714
SBVMWD	SWP	0	0
WMWD	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.

Santa Ana River - Mill Creek Cooperative Water Project

Daily Flow Report

Date: 12/30/2015
Time: 6:45:00 AM

State Water Project

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

Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	5.6	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.2	A1	SAR PH #3 Penstock (calc)	12.6
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	2.9	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	2.9
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)	4.2
V1	PH#3 Afterbay Spill/Loss to SAR	0.0	B1	BVMWC Highline	2.9	Z1	SOD Release Subtotal	4.2	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	11.5	Other			Seven Oaks Dam			D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	J1	Big Bear Lake Release	5.0	w	Observation at SOD	2156.0	A5	Total SAR Inflows	19.7
minus			L1	SCE SAR AVM (SCADA)	16.2	x	SOD Reservoir Elevation (scada)	2156.5			
D1	BVMWC River PU (USGS)	4.2	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	SAR PH #3 Penstock (calc)	12.6									
K1	PH3# Penstock (SCADA)	13.4									

Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall Flume To Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	5.6	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	11.5
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Z1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	SBVWCD Parshall Flume	0.0	Y2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	Tailrace Pipeline	5.6	Parshall Flume (SCADA)			B1	BVMWC Highline	2.9
R1	BVMWC Highline to Boullioun	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0				D2	Boullioun Box Weir	2.9	I2	Tailrace Pipeline	5.6
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0				B2	Gay Overflow	1.7	J2	Tailrace Valve to Parshall Flume	0.0
						C2	Irrigation	1.2	K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	Total SAR Deliveries	19.7

Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.6	E3	M/C #1 Penstock Flow	6.9
B3	M/C #3 Penstock	4.3	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	6.9			

Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	0.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.8
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	1.0	T3	Mill Creek #1 Flow (Cooley Hat)	6.9	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	5.9	U3	Total MC Deliveries	6.9	V3	Zanja West Weir to CWC Canal	3.7
			T3	MC #1 Flow (Cooley Hat)	6.9				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	16.5

SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	1.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
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	0.2	I4	339.7	123,000	I4	2,587.8	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	2.0	K4	179.1	73,800	K4	834.3	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714	L4	0	714
	SBVMWD	SWP								
	WMWD	SWP								
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		