

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 11/2/2015

Time: 6:50:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	8.0
<b>N2</b>	<b>Total SAR Deliveries</b>	8.0
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	4.1
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	3.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	13.7
<b>V</b>	<b>Total SWP Deliveries</b>	13.7
J	Northfork Canal	7.7
L	Redlands Aqueduct	6.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	6.8
<b>U3</b>	<b>Total MC Deliveries</b>	6.8
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	6.8

Reservoir Levels	Feet
Observation at SOD	2155
Crafton Reservoir Level (21.3)	16.6
Mentone Reservoir Level	21.2

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	197	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. Also, as of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased.

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## State Water Project

Inflows			Deliveries					
A	BBMWD In-lieu	13.7	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	7.7	R	Tate Treatment Plant	0.0
D	Purchased Water	0.0	K	Edwards Canal	0.0	S	SBCFCD Grove	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	6.0	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	13.7	N	BVMWC Bouillion Box	0.0	V	Total SWP Deliveries	13.7

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows			
G2	Northfork Canal Weir	0.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	3.0	A1	SAR PH #3 Penstock (calc)	0.0	
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	4.1	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	4.1	
J1	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun Box to Zanja	0.0	Z1	SOD Release Subtotal		C1	Greenspot Pipeline	0.0	
K2	Northfork Parshall Flume	0.0	F2	SBVWCD Mill Creek Spreading	0.0	<div>Seven Oaks Dam</div> <div><div>w</div><div>Observation at SOD</div><div>2155.0</div></div> <div><div>x</div><div>SOD Reservoir Elevation (scada)</div><div>2155.5</div></div> <div><div>y</div><div>Debris Pool Elevation</div><div>0.0</div></div>						
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline								4.1
W1	Redlands Aqueduct / Sandbox	3.3										
Y1	Redlands Sandbox Spill	0.0	Other									
minus			J1	Big Bear Lake Release	5.0							
F1	Greenspot Spill	0.9	L1	SCE SAR AVM (SCADA)	4.7							
D1	BVMWC River PU (USGS)	3.0	X1	SAR-MC Spread (Red. Aqueduct)	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		
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	0.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	0.9

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	4.1
	minus	
B2	Gay Overflow	4.1
C2	Irrigation	0.0

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	3.3
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	4.1
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	0.9
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	8.0

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.1	E3	M/C #1 Penstock Flow	6.8
B3	M/C #3 Penstock	4.7	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	0.0
D3	<b>Total MC Inflows</b>	<b>6.8</b>			

### Mill Creek Deliveries

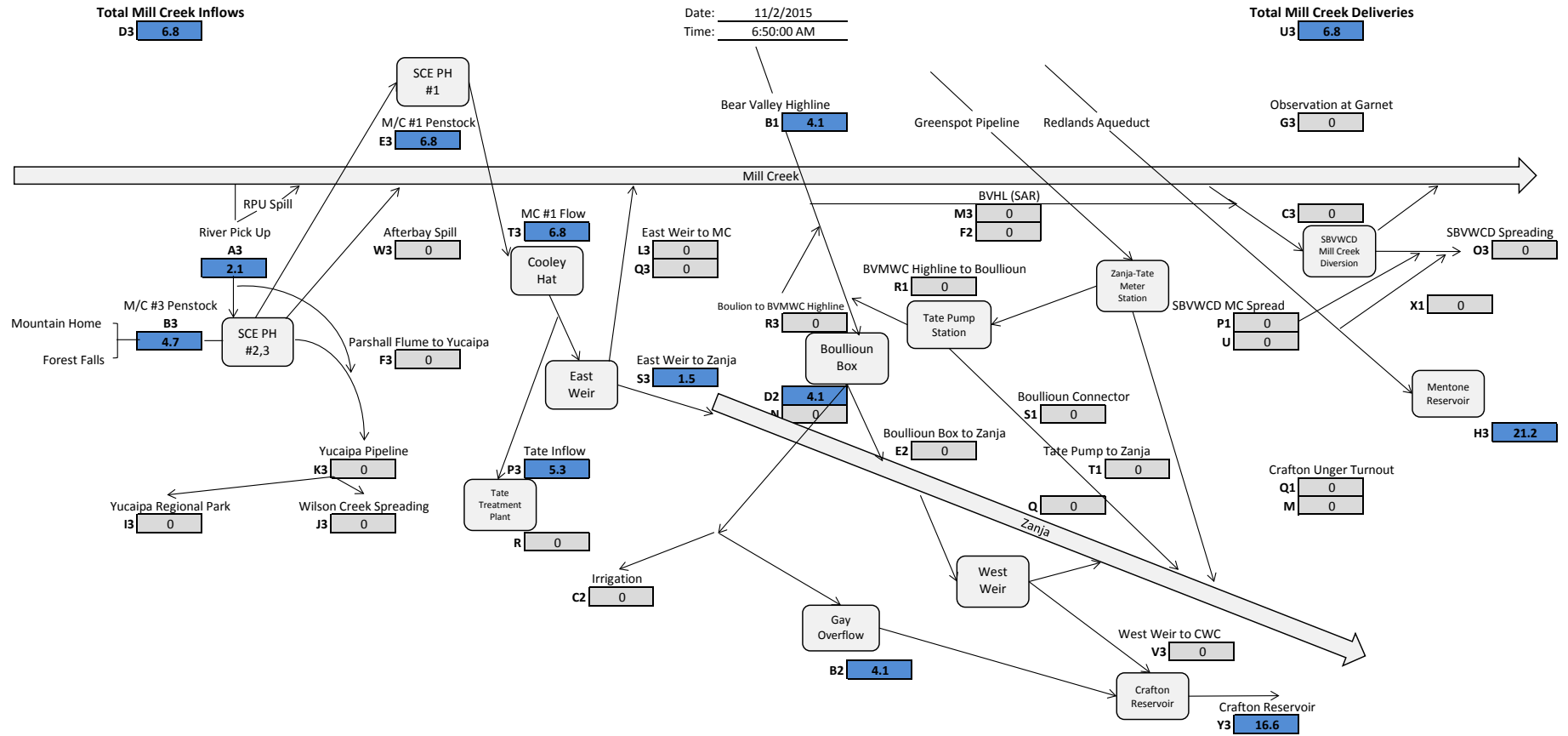
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other				
j3	Yucaipa Regional Park	0.0	p3	Tate Inflow	5.3	c3	SBVWCD Mill Creek Diversion	0.0	h3	Mentone Reservoir Level	21.2
j3	Wilson Creek Spreading	0.0	q3	East Weir to Mill Creek	0.0	t3	Mill Creek #1 Flow (Cooley Hat)	6.8	r3	Boullioun to BVMWC Highline	0.0
k3	Yucaipa Pipeline	0.0	s3	East Weir to Zanja	1.5	u3	Total MC Deliveries	6.8	v3	Zanja West Weir to CWC Canal	0.0
SBVWCD MC Spreading			t3	MC #1 Flow (Cooley Hat)	6.8				w3	Mill Creek PH #2,3 Afterbay Spill	0.0
								y3	Crafton Reservoir Level (21.3)	16.6	

### SBVWCD Recharge

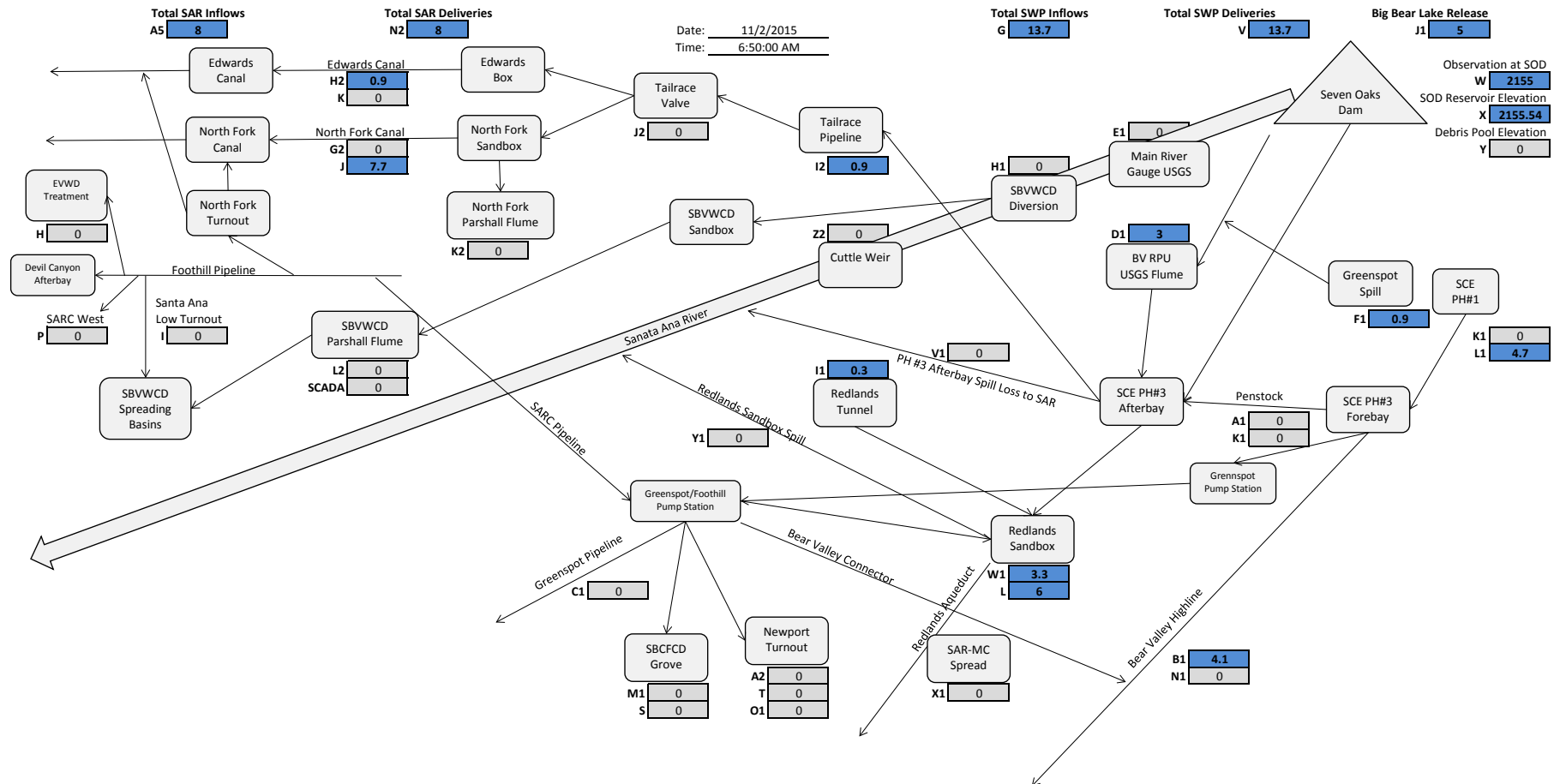
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	0.0	I4	197.4	123,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	
D4	Mill Creek	SWP	H4	0.0	L4	0	714	
	SBVMWD	SWP						
	WMWD	SWP						
SAR Passing Cattle 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: 11/3/2015

Time: 6:30:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	8.3
<b>N2</b>	<b>Total SAR Deliveries</b>	8.3
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	3.5
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	0.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	14.6
<b>V</b>	<b>Total SWP Deliveries</b>	14.6
J	Northfork Canal	7.7
L	Redlands Aqueduct	6.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.9

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	9.0
<b>U3</b>	<b>Total MC Deliveries</b>	9.0
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	9.0

Reservoir Levels	Feet
Observation at SOD	2155
Crafton Reservoir Level (21.3)	18
Mentone Reservoir Level	20.4

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	200	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. Also, as of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased.

## Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

**Date:** 11/3/2015

Time: 6:30:00 AM

## State Water Project

Inflows			Deliveries					
A	BBMWD In-lieu	14.6	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	7.7	R	Tate Treatment Plant	0.0
D	Purchased Water	0.0	K	Edwards Canal	0.0	S	SBCFCD Grove	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	6.0	T	Newport for BVMWC	0.9
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0	U	M/C spreading at Zanja Tate	0.0
G	Total SWP Inflows	14.6	N	BVMWC Bouliouin Box	0.0	V	Total SWP Deliveries	14.6

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows						
G2	Northfork Canal Weir	0.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)		4.1	A1	SAR PH #3 Penstock (calc)	0.0			
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	3.5	E2	Boullioun Box to Zanja	0.0	Z1	SOD Release Subtotal		4.1	C1	Greenspot Pipeline	0.0			
K2	Northfork Parshall Flume	0.0	F2	SBVWCD Mill Creek Spreading	0.0					D1	BVMWC River PU (USGS)	4.1			
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline		4.0					F1	Greenspot Spill	0.2		
W1	Redlands Aqueduct / Sandbox	0.3				Seven Oaks Dam						E1	Main River Gage (USGS)	0.0	
Y1	Redlands Sandbox Spill	0.0				w	Observation at SOD		2155.0	E1a	BV Pick-Up gated	<input type="checkbox"/>			
minus			Other			x	SOD Reservoir Elevation (scada)		2155.5				A5	Total SAR Inflows	8.3
F1	Greenspot Spill	0.2	J1	Big Bear Lake Release	5.0	y	Debris Pool Elevation		0.0						
D1	BVMWC River PU (USGS)	4.1	L1	SCE SAR AVM (SCADA)	3.9										
I1	Redlands Tunnel	0.3	X1	SAR-MC Spread (Red. Aqueduct)	0.0										
A1	SAR PH #3 Penstock (calc)	0.0													
K1	PH3# Penstock (SCADA)	0.0													

### 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	0.0
H2	Edwards Canal	0.8
J2	Tailrace Valve to Parshall Flume	3.5
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	4.3

SBVWCD Parshall FlumeTo Basins		
J2	Tailrace Valve to Parshall Flume	3.5
K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	0.0
L2	SBVWCD Parshall Flume	3.5
	Parshall Flume (SCADA)	0.0

Irrigation		
D2	Boullioun Box Weir	4.0
		minus
B2	Gay Overflow	3.9
C2	Irrigation	0.1

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	0.3
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	4.3
L2	SBVWCD Parshall Flume	3.5
		minus
J2	Tailrace Valve to Parshall Flume	3.5
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	0.3
N2	Total SAR Deliveries	8.3

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	4.0	E3	M/C #1 Penstock Flow	9.0
B3	M/C #3 Penstock	5.0	F3	Stream Parshall Flume to Yucaipa	0.0
C3	SBVWCD Mill Creek Diversion	0.0	G3	Observation at Garnet	0.0
D3	<b>Total MC Inflows</b>	<b>9.0</b>			

### Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
i3	Yucaipa Regional Park	0.0	p3	Tate Inflow	5.8	c3	SBVWCD Mill Creek Diversion	0.0	h3	Mentone Reservoir Level	20.4
j3	Wilson Creek Spreading	0.0	q3	East Weir to Mill Creek	0.0	t3	Mill Creek #1 Flow (Cooley Hat)	9.0	r3	Boullioun to BVMWC Highline	0.0
k3	Yucaipa Pipeline	0.0	s3	East Weir to Zanja	3.2	u3	Total MC Deliveries	9.0	v3	Zanja West Weir to CWC Canal	1.2
SBVWCD MC Spreading			t3	MC #1 Flow (Cooley Hat)	9.0				w3	Mill Creek PH #2,3 Afterbay Spill	0.0
									y3	Crafton Reservoir Level (21.3)	18.0

### SBVWCD MC Spreading

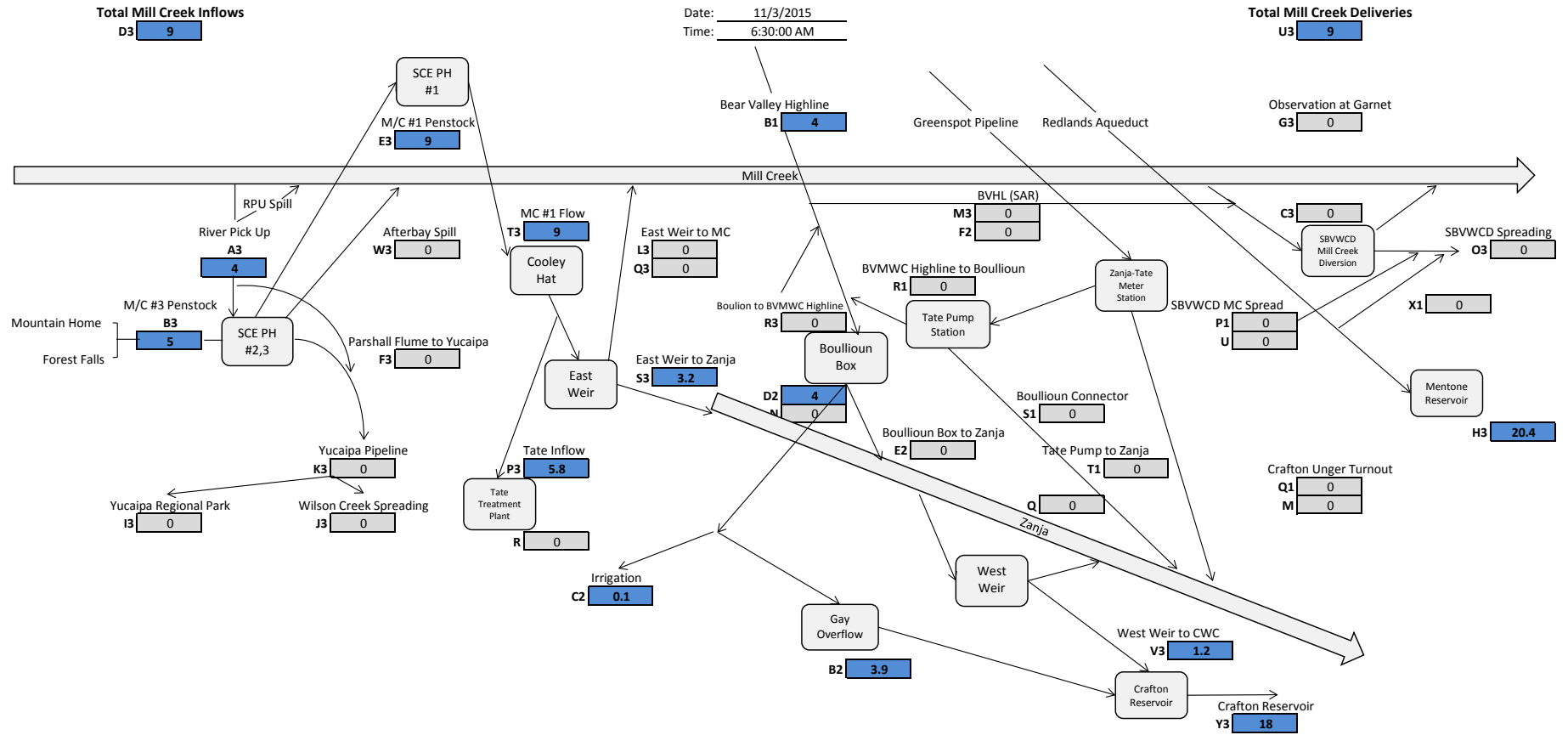
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	<b>SBVWCD MC Spreading</b>	<b>0.0</b>

### SBVWCD Recharge

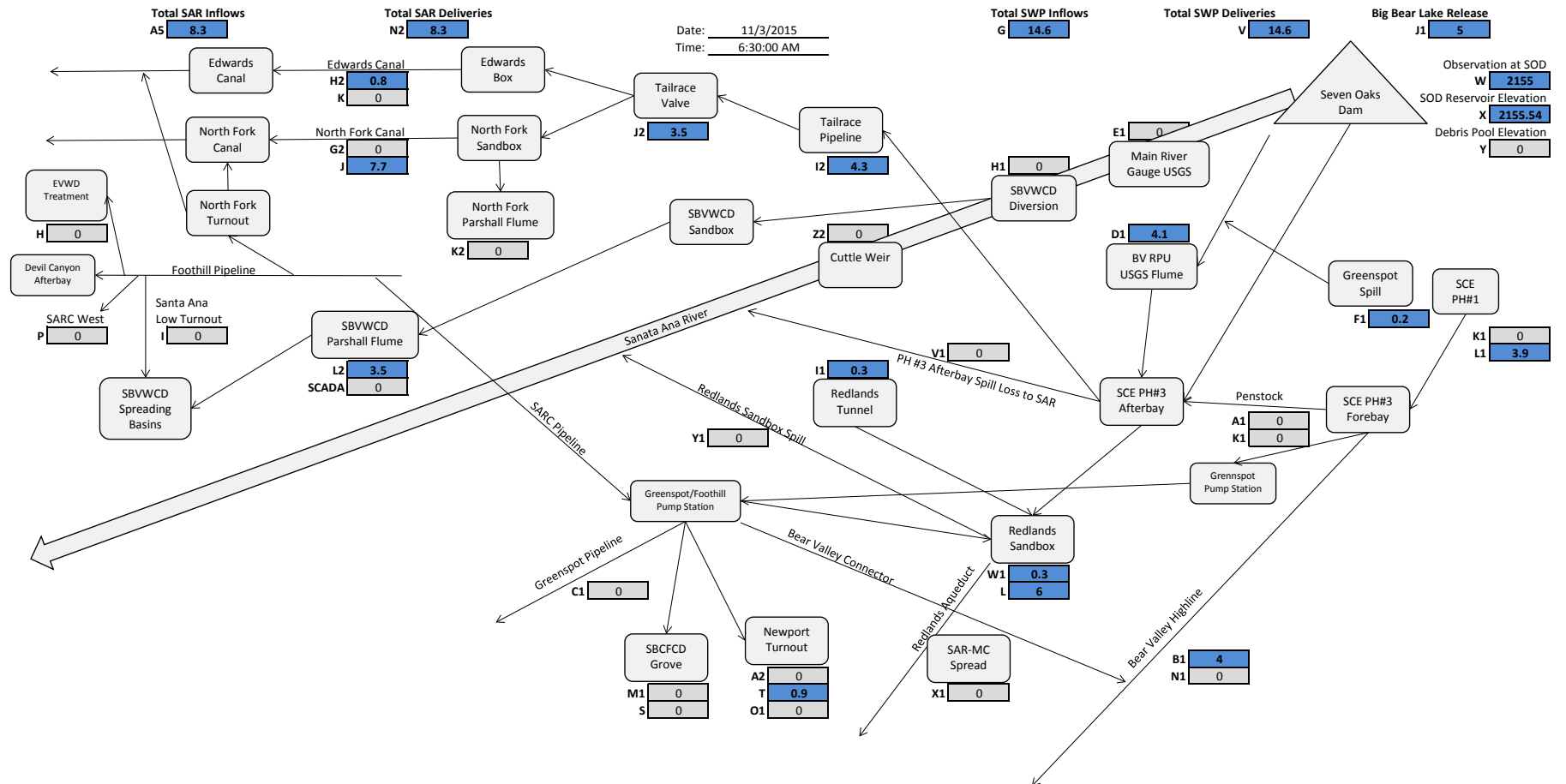
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	2.6	I4	200.0	123,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	
D4	Mill Creek	SWP	H4	0.0	L4	0	714	
	SBVMWD	SWP						
	WMWD	SWP						
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: 11/4/2015

Time: 6:45:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	14.4
<b>N2</b>	<b>Total SAR Deliveries</b>	14.4
A1	SAR PH#3 Penstock (calc)	0.0
B1	BVMWC Highline	4.4
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	0.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	9.1

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	14.9
<b>V</b>	<b>Total SWP Deliveries</b>	14.9
J	Northfork Canal	7.7
L	Redlands Aqueduct	6.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	1.2

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	9.8
<b>U3</b>	<b>Total MC Deliveries</b>	9.8
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	9.8

Reservoir Levels	Feet
Observation at SOD	2155
Crafton Reservoir Level (21.3)	19.2
Mentone Reservoir Level	21.7

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	200	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

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## Daily Flow Report

Date: 11/4/2015  
Time: 6:45:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	14.9	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	7.7
D	Purchased Water	0.0	K	Edwards Canal	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	6.0
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0
G	<b>Total SWP Inflows</b>	<b>14.9</b>	N	BVMWC Boullion 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	1.2
			U	M/C spreading at Zanja Tate	0.0
			V	<b>Total SWP Deliveries</b>	<b>14.9</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows			
G2	Northfork Canal Weir	0.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)		5.0	A1	SAR PH #3 Penstock (calc)	0.0
H2	Edwards Canal	0.9	D2	Boullioun Box Weir	4.4	E1	Main River Gage (USGS)		0.0	B1	BVMWC Highline	4.4
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun Box to Zanja	0.0	Z1	SOD Release Subtotal		5.0	C1	Greenspot Pipeline	0.0
K2	Northfork Parshall Flume	0.0	F2	SBVWCD Mill Creek Spreading	0.0					D1	BVMWC River PU (USGS)	5.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline 4.4						F1	Greenspot Spill	5.0
W1	Redlands Aqueduct / Sandbox	9.4				Seven Oaks Dam				E1	Main River Gage (USGS)	0.0
Y1	Redlands Sandbox Spill	0.0				w	Observation at SOD		2155.0	D1a	BV Pick-Up gated	☐
minus						x	SOD Reservoir Elevation (scada)		2157.2	A5	Total SAR Inflows	14.4
F1	Greenspot Spill	5.0	Other			y	Debris Pool Elevation		0.0			
D1	BVMWC River PU (USGS)	5.0	J1	Big Bear Lake Release	5.0							
I1	Redlands Tunnel	0.3	L1	SCE SAR AVM (SCADA)	10.0							
A1	SAR PH #3 Penstock (calc)	0.0	X1	SAR-MC Spread (Red. Aqueduct)	0.0							
K1	PH3# Penstock (SCADA)	0.0										

### 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	0.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	0.9

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	4.4
		minus
B2	Gay Overflow	3.9
C2	Irrigation	0.5

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	9.4
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	4.4
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	0.9
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	14.4

### Mill Creek Inflows

Total MC Inflows		
A3	RPU Flow	4.1
B3	M/C #3 Penstock	5.7
C3	SBVWCD Mill Creek Diversion	0.0
D3	Total MC Inflows	9.8

Other		
E3	M/C #1 Penstock Flow	9.8
F3	Stream Parshall Flume to Yucaipa	0.0
G3	Observation at Garnet	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	7.2	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	21.7
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	9.8	R3	Boullion to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.6	U3	Total MC Deliveries	9.8	V3	Zanja West Weir to CWC Canal	1.2
			T3	MC #1 Flow (Cooley Hat)	9.8				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									Y3	Crafton Reservoir Level (21.3)	19.2

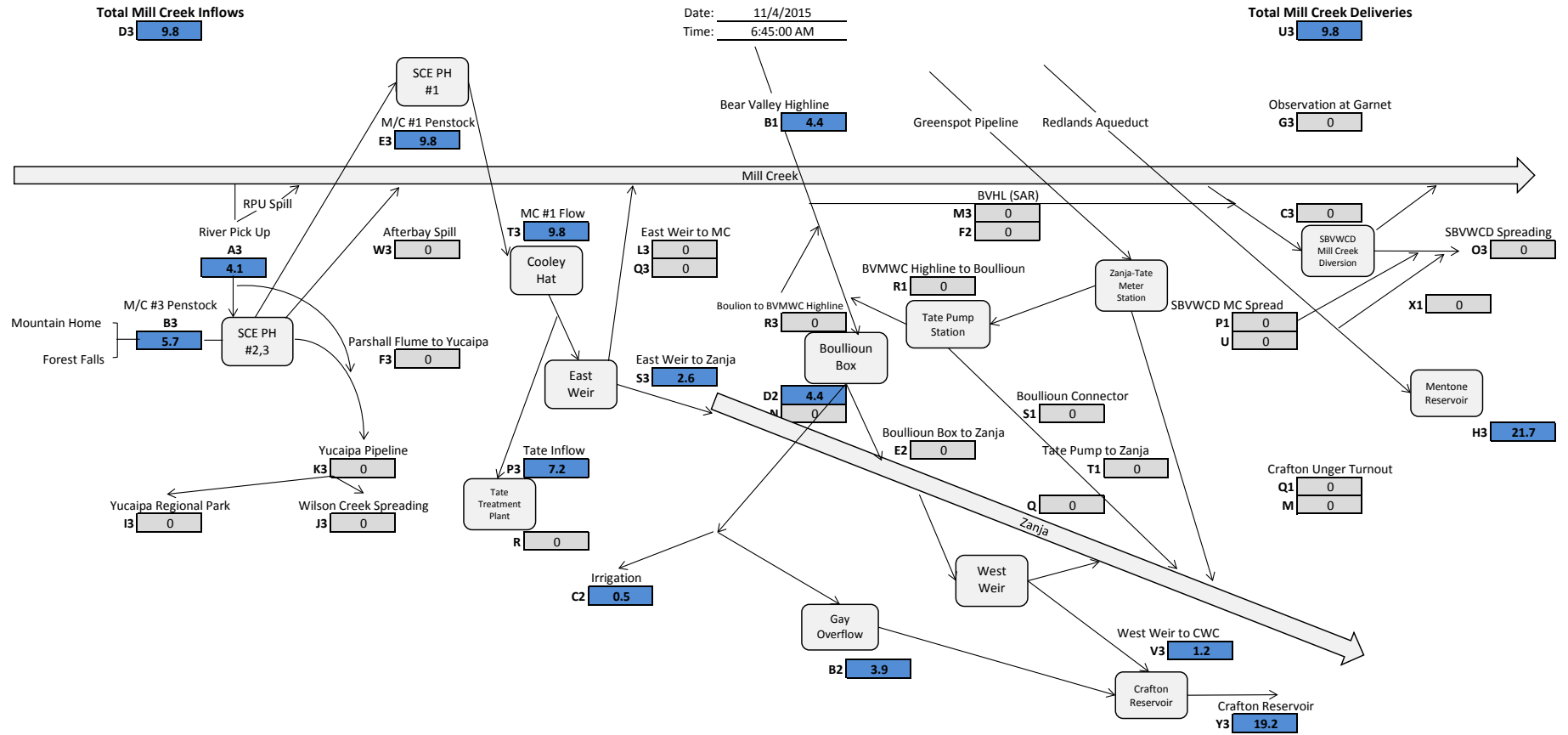
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	0.0

### SBVWCD Recharge

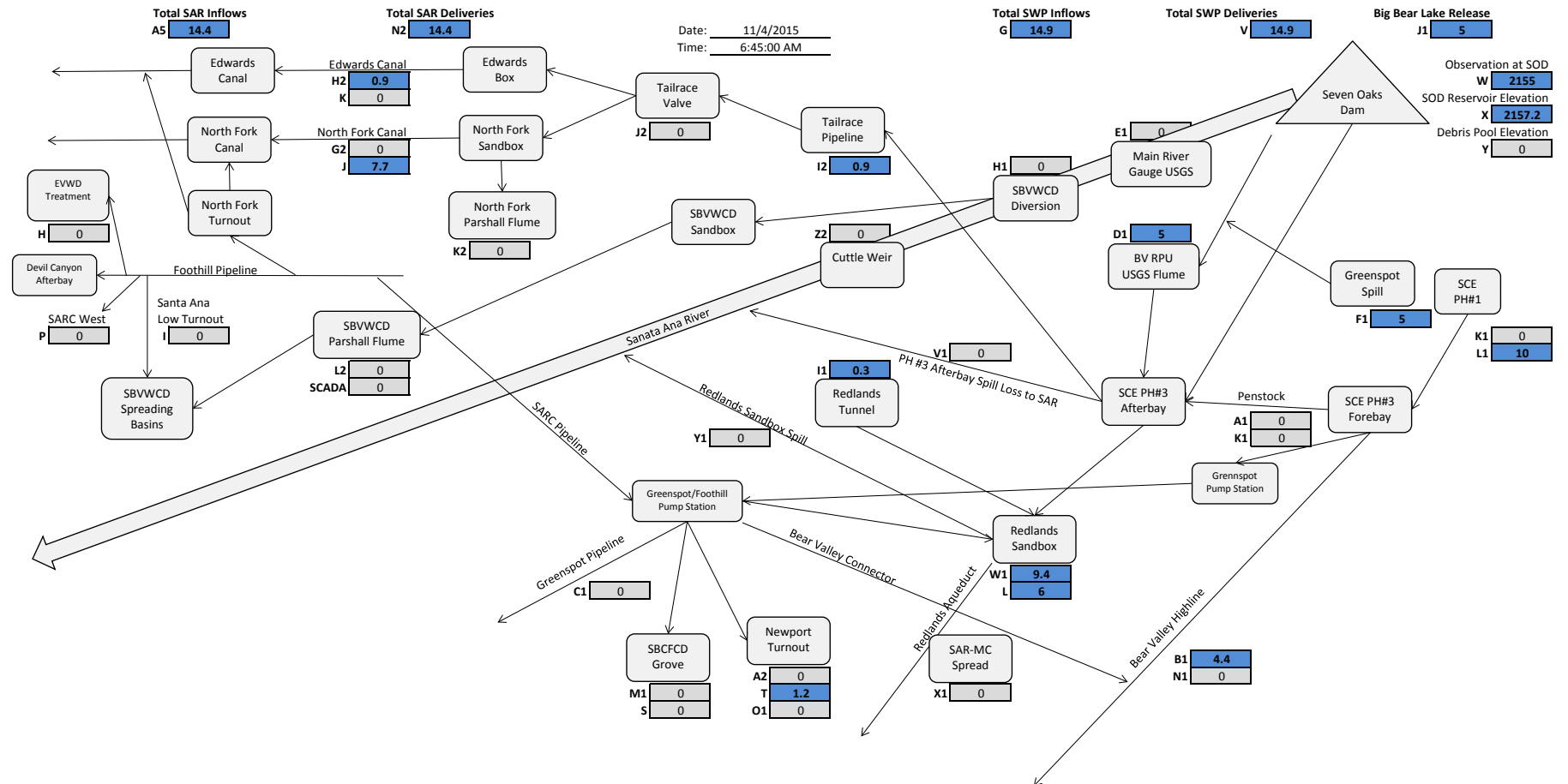
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	0.0	I4	200.0	123,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	
D4	Mill Creek	SWP	H4	0.0	L4	0	714	
	SBVMWD	SWP						
	WMWD	SWP						
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: 11/5/2015

Time: 6:30:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	22.2
<b>N2</b>	<b>Total SAR Deliveries</b>	22.2
A1	SAR PH#3 Penstock (calc)	13.4
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	16.0
G2	North Fork Canal Weir	1.4
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	0.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	12.5
<b>V</b>	<b>Total SWP Deliveries</b>	12.5
J	Northfork Canal	5.6
L	Redlands Aqueduct	6.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.9

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	9.9
<b>U3</b>	<b>Total MC Deliveries</b>	9.9
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	9.9

Reservoir Levels	Feet
Observation at SOD	2155
Crafton Reservoir Level (21.3)	19.8
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	224	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. Also, as of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased.

## Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

**Date:** 11/5/2015

Time: 6:30:00 AM

## State Water Project

Inflows			Deliveries					
A	BBMWD In-lieu	12.5	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	5.6	R	Tate Treatment Plant	0.0
D	Purchased Water	0.0	K	Edwards Canal	0.0	S	SBCFCD Grove	0.0
E	Redlands Aqueduct Leakage	0.0	L	Redlands Aqueduct	6.0	T	Newport for BVMWC	0.9
F	Recharge Project	0.0	M	Crafton Unger Lane	0.0	U	M/C spreading at Zanja Tate	0.0
G	Total SWP Inflows	12.5	N	BVMWC Bouillion Box	0.0	V	Total SWP Deliveries	12.5

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows			
G2	Northfork Canal Weir	1.4	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.8	A1	SAR PH #3 Penstock (calc)	13.4	
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	16.0	E2	Boullioun Box to Zanja	0.0	Z1	SOD Release Subtotal		C1	Greenspot Pipeline	0.0	
K2	Northfork Parshall Flume	0.0	F2	SBVWCD Mill Creek Spreading	0.0	<div>Seven Oaks Dam</div> <div><div>w</div><div>Observation at SOD</div><div>2155.0</div></div> <div><div>x</div><div>SOD Reservoir Elevation (scada)</div><div>2157.2</div></div> <div><div>y</div><div>Debris Pool Elevation</div><div>0.0</div></div>						
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline								4.0
W1	Redlands Aqueduct / Sandbox	0.0										
Y1	Redlands Sandbox Spill	0.3	Other									
minus			J1	Big Bear Lake Release	5.0							
F1	Greenspot Spill	0.0	L1	SCE SAR AVM (SCADA)	17.5							
D1	BVMWC River PU (USGS)	4.8	X1	SAR-MC Spread (Red. Aqueduct)	0.0							
I1	Redlands Tunnel	0.3										
A1	SAR PH #3 Penstock (calc)	13.4										
K1	PH3# Penstock (SCADA)	13.8										

### 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	1.4
H2	Edwards Canal	0.8
J2	Tailrace Valve to Parshall Flume	16.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	18.2

SBVWCD Parshall FlumeTo Basins		
J2	Tailrace Valve to Parshall Flume	16.0
K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	0.0
L2	SBVWCD Parshall Flume	16.0
	Parshall Flume (SCADA)	16.2

Irrigation		
D2	Boullioun Box Weir	4.0
	minus	
B2	Gay Overflow	4.0
C2	Irrigation	0.0

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	0.0
Y1	Redlands Sandbox Spill	0.3
Z1	Cuttle Weir To River	0.0
B2	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	18.2
L2	SBVWCD Parshall Flume	16.0
	minus	
J2	Tailrace Valve to Parshall Flume	16.0
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	0.3
N2	Total SAR Deliveries	22.2

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	4.1	E3	M/C #1 Penstock Flow	9.9
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	<b>Total MC Inflows</b>	<b>9.9</b>			

### Mill Creek Deliveries

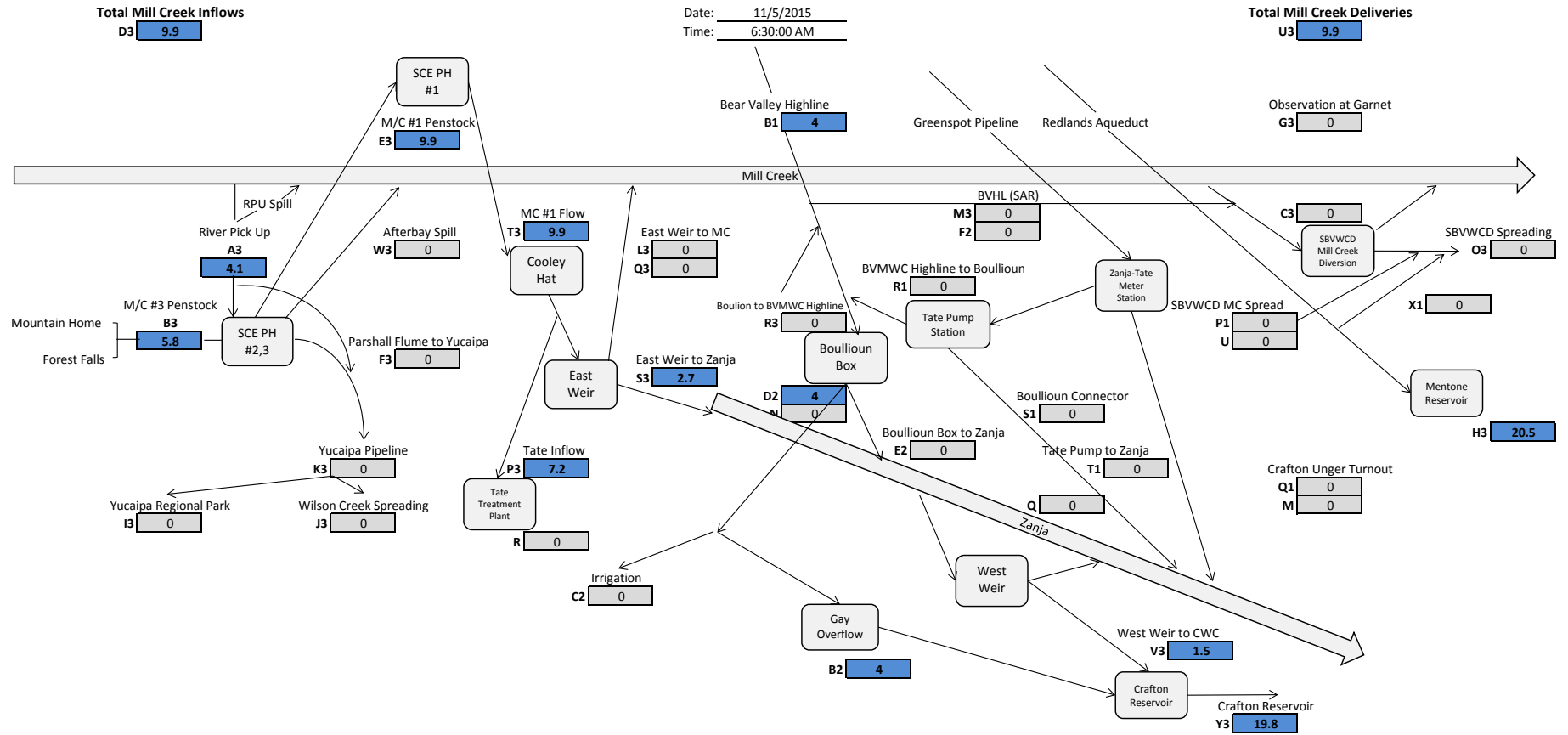
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)		Total MC Deliveries		Other				
j3	Yucaipa Regional Park	0.0	p3	Tate Inflow	7.2	c3	SBVWCD Mill Creek Diversion	0.0	h3	Mentone Reservoir Level	20.5
j3	Wilson Creek Spreading	0.0	q3	East Weir to Mill Creek	0.0	t3	Mill Creek #1 Flow (Cooley Hat)	9.9	r3	Boullioun to BVMWC Highline	0.0
k3	Yucaipa Pipeline	0.0	s3	East Weir to Zanja	2.7	u3	Total MC Deliveries	9.9	v3	Zanja West Weir to CWC Canal	1.5
SBVWCD MC Spreading			t3	MC #1 Flow (Cooley Hat)	9.9				w3	Mill Creek PH #2,3 Afterbay Spill	0.0
								y3	Crafton Reservoir Level (21.3)	19.8	

### SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	
A4	Santa Ana River	SAR	E4	24.3	I4	224.3	123,000	
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800	
D4	Mill Creek	SWP	H4	0.0	L4	0	714	
	SBVMWD	SWP						
	WMWD	SWP						
SAR Passing Cattle 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

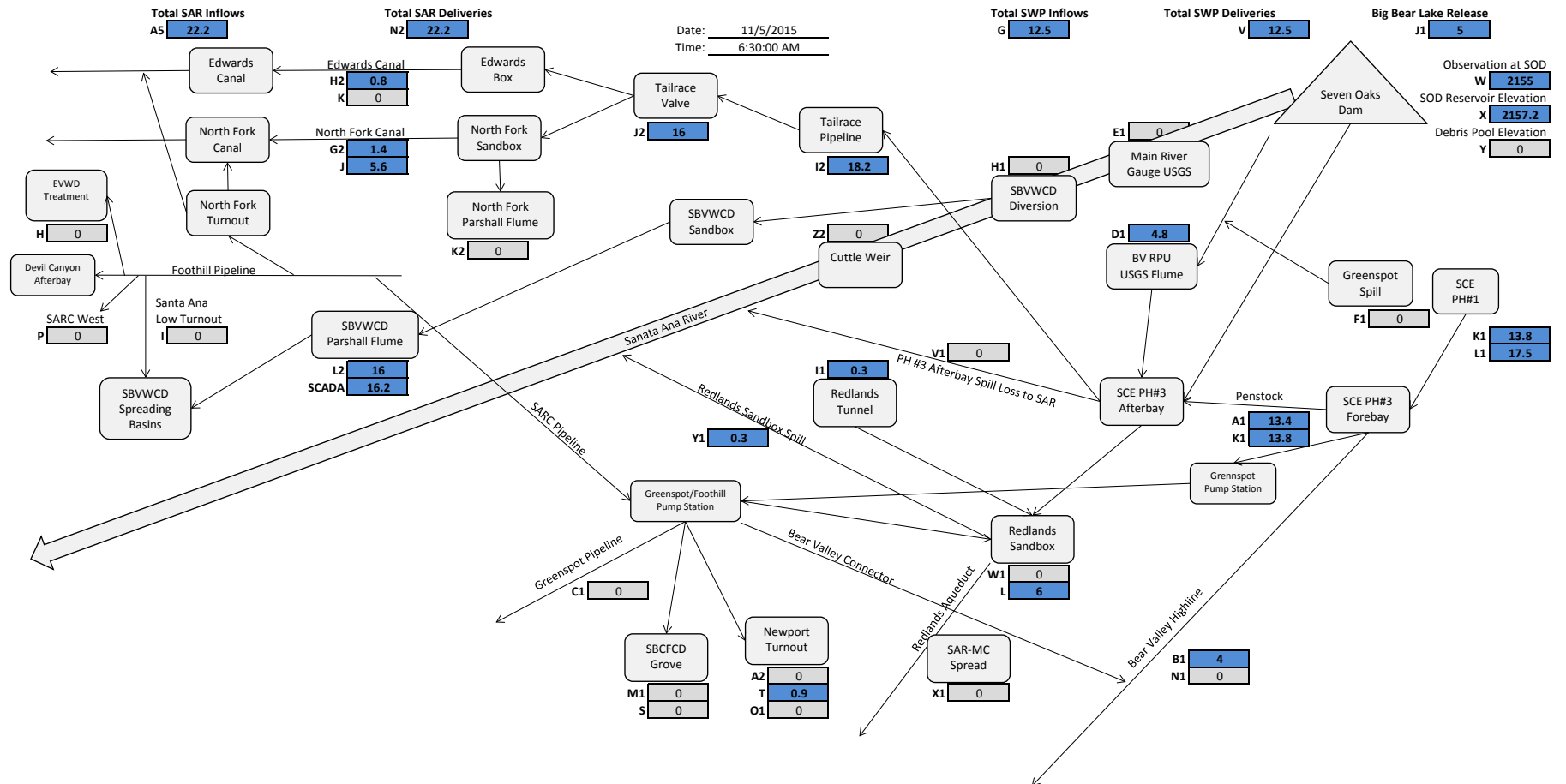
# Santa Ana River - Mill Creek Cooperative Water Project

## 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: 11/6/2015

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	22.0
<b>N2</b>	<b>Total SAR Deliveries</b>	22.0
A1	SAR PH#3 Penstock (calc)	13.0
B1	BVMWC Highline	3.8
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	15.4

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	5.8
<b>V</b>	<b>Total SWP Deliveries</b>	5.8
J	Northfork Canal	5.8
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	10.3
<b>U3</b>	<b>Total MC Deliveries</b>	10.3
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	10.3

Reservoir Levels	Feet
Observation at SOD	2156.6
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	224	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. Also, as of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 11/6/2015  
Time: 7:00:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	5.8	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	5.8
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	<b>Total SWP Inflows</b>	<b>5.8</b>	N	BVMWC Boulliou 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	<b>Total SWP Deliveries</b>	<b>5.8</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows					
G2	Northfork Canal Weir	2.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)		5.2	A1	SAR PH #3 Penstock (calc)	13.0		
H2	Edwards Canal	0.8	D2	Boullioun Box Weir	3.8	E1	Main River Gage (USGS)		0.0	B1	BVMWC Highline	3.8		
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boullioun Box to Zanja	0.0	Z1	SOD Release Subtotal		5.2	C1	Greenspot Pipeline	0.0		
K2	Northfork Parshall Flume	0.0	F2	SBVWCD Mill Creek Spreading	0.0					D1	BVMWC River PU (USGS)	5.2		
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline		3.8					F1	Greenspot Spill	0.0	
W1	Redlands Aqueduct / Sandbox	15.7										E1	Main River Gage (USGS)	0.0
Y1	Redlands Sandbox Spill	0.0										D1a	BV Pick-Up gated	☐
minus												A5	Total SAR Inflows	22.0
F1	Greenspot Spill	0.0												
D1	BVMWC River PU (USGS)	5.2												
I1	Redlands Tunnel	0.3												
A1	SAR PH #3 Penstock (calc)	13.0												
K1	PH3# Penstock (SCADA)	13.5												

J1	Big Bear Lake Release	5.0
L1	SCE SAR AVM (SCADA)	17.4
X1	SAR-MC Spread (Red. Aqueduct)	0.0

W	Observation at SOD	2156.6
X	SOD Reservoir Elevation (scada)	2157.2
Y	Debris Pool Elevation	0.0

### 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	2.0
H2	Edwards Canal	0.8
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	2.8

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	3.8
		minus
B2	Gay Overflow	3.8
C2	Irrigation	0.0

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	15.7
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	3.8
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.8
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	22.0

### Mill Creek Inflows

Total MC Inflows		
A3	RPU Flow	4.1
B3	M/C #3 Penstock	6.2
C3	SBVWCD Mill Creek Diversion	0.0
D3	Total MC Inflows	10.3

Other		
E3	M/C #1 Penstock Flow	10.3
F3	Stream Parshall Flume to Yucaipa	0.0
G3	Observation at Garnet	0.0

### Mill Creek Deliveries

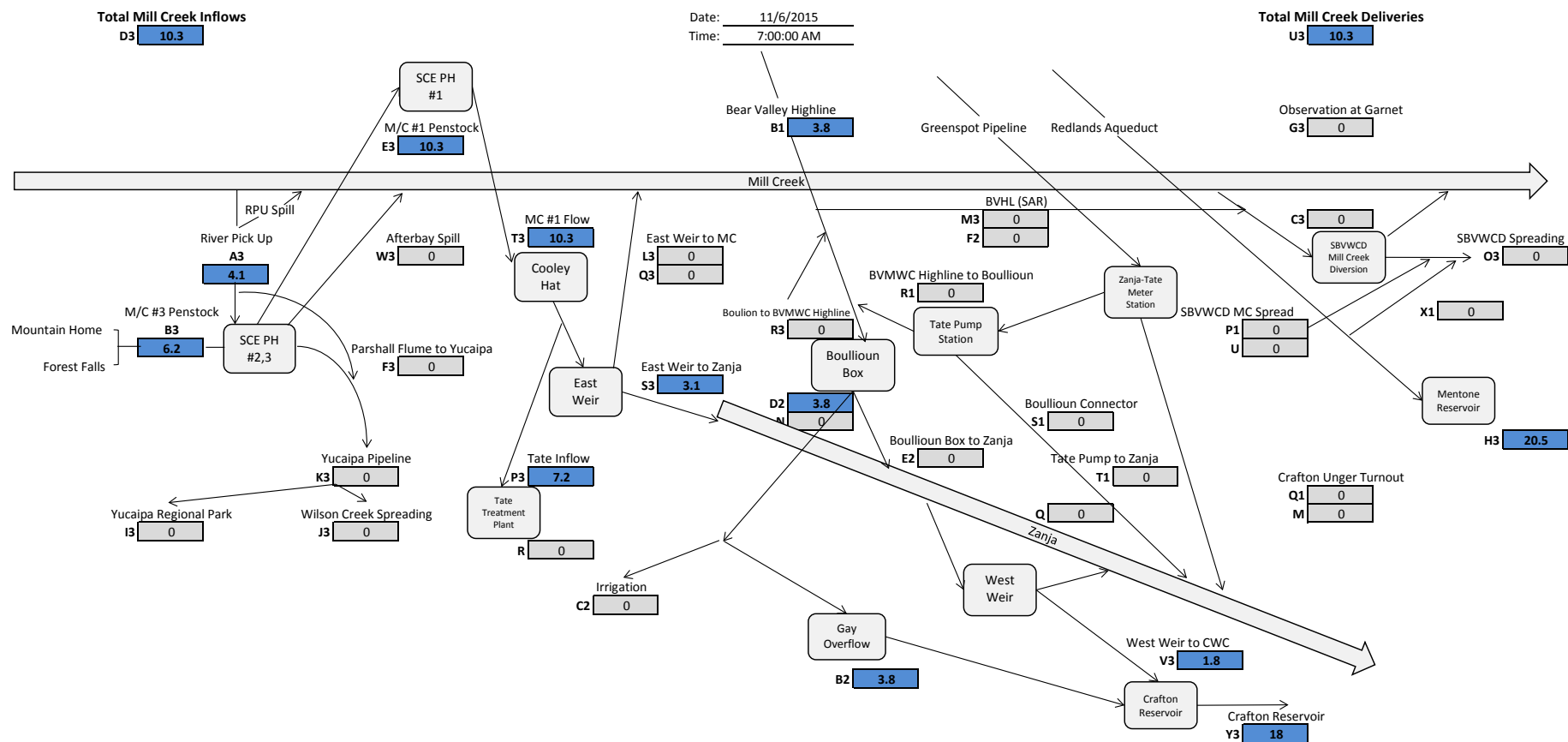
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.2	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.5
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	10.3	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	3.1	U3	Total MC Deliveries	10.3	V3	Zanja West Weir to CWC Canal	1.8
			T3	MC #1 Flow (Cooley Hat)	10.3				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									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

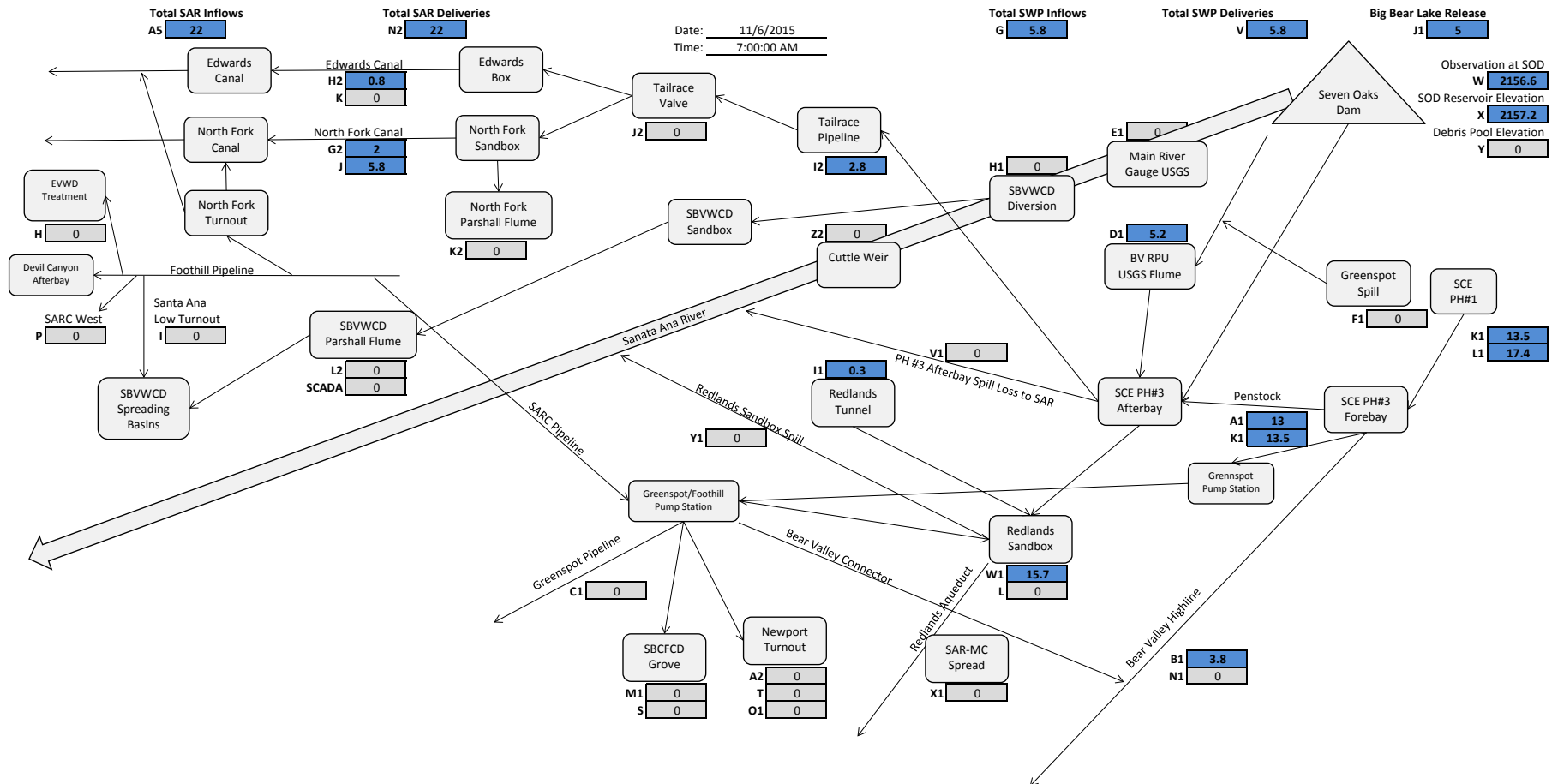
Location		Type	Previous Day (AF)		WY To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	224.3	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	73,800
D4	Mill Creek	SWP	H4	0.0	L4	0	714
	SBVMWD	SWP					
	WMWD	SWP					
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: 11/9/2015

Time: 7:15:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	21.6
<b>N2</b>	<b>Total SAR Deliveries</b>	21.6
A1	SAR PH#3 Penstock (calc)	13.1
B1	BVMWC Highline	3.8
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	14.9

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	5.7
<b>V</b>	<b>Total SWP Deliveries</b>	5.7
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	9.7
<b>U3</b>	<b>Total MC Deliveries</b>	9.7
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	9.7

Reservoir Levels	Feet
Observation at SOD	2156.4
Crafton Reservoir Level (21.3)	19.5
Mentone Reservoir Level	20.6

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	224	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 11/9/2015  
Time: 7:15:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	5.7	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	5.7
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	<b>Total SWP Inflows</b>	<b>5.7</b>	N	BVMWC Boulliou 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	<b>Total SWP Deliveries</b>	<b>5.7</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	2.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	15.2
Y1	Redlands Sandbox Spill	0.0
minus		
D1	BVMWC River PU (USGS)	4.7
I1	Redlands Tunnel	0.3
A1	SAR PH #3 Penstock (calc)	13.1
K1	PH3# Penstock (SCADA)	13.4

BVMWC Highline		
A2	Newport	0.0
D2	Boullioun Box Weir	3.8
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	BVMWC Highline	3.8
Other		
J1	Big Bear Lake Release	5.0
L1	SCE SAR AVM (SCADA)	16.8
X1	SAR-MC Spread (Red. Aqueduct)	0.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	4.7
E1	Main River Gage (USGS)	0.0
minus		
F1	Greenspot Spill	0.0
Z1	SOD Release Subtotal	4.7
Seven Oaks Dam		
w	Observation at SOD	2156.4
x	SOD Reservoir Elevation (scada)	2157.0
y	Debris Pool Elevation	0.0

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	13.1
B1	BVMWC Highline	3.8
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	4.7
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	□
A5	Total SAR Inflows	21.6

### 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	2.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	2.9

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

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	15.2
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	3.8
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.9
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	21.6

Irrigation		
D2	Boullioun Box Weir	3.8
minus		
B2	Gay Overflow	3.5
C2	Irrigation	0.3

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	4.0	E3	M/C #1 Penstock Flow	9.7
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	9.7			

### Mill Creek Deliveries

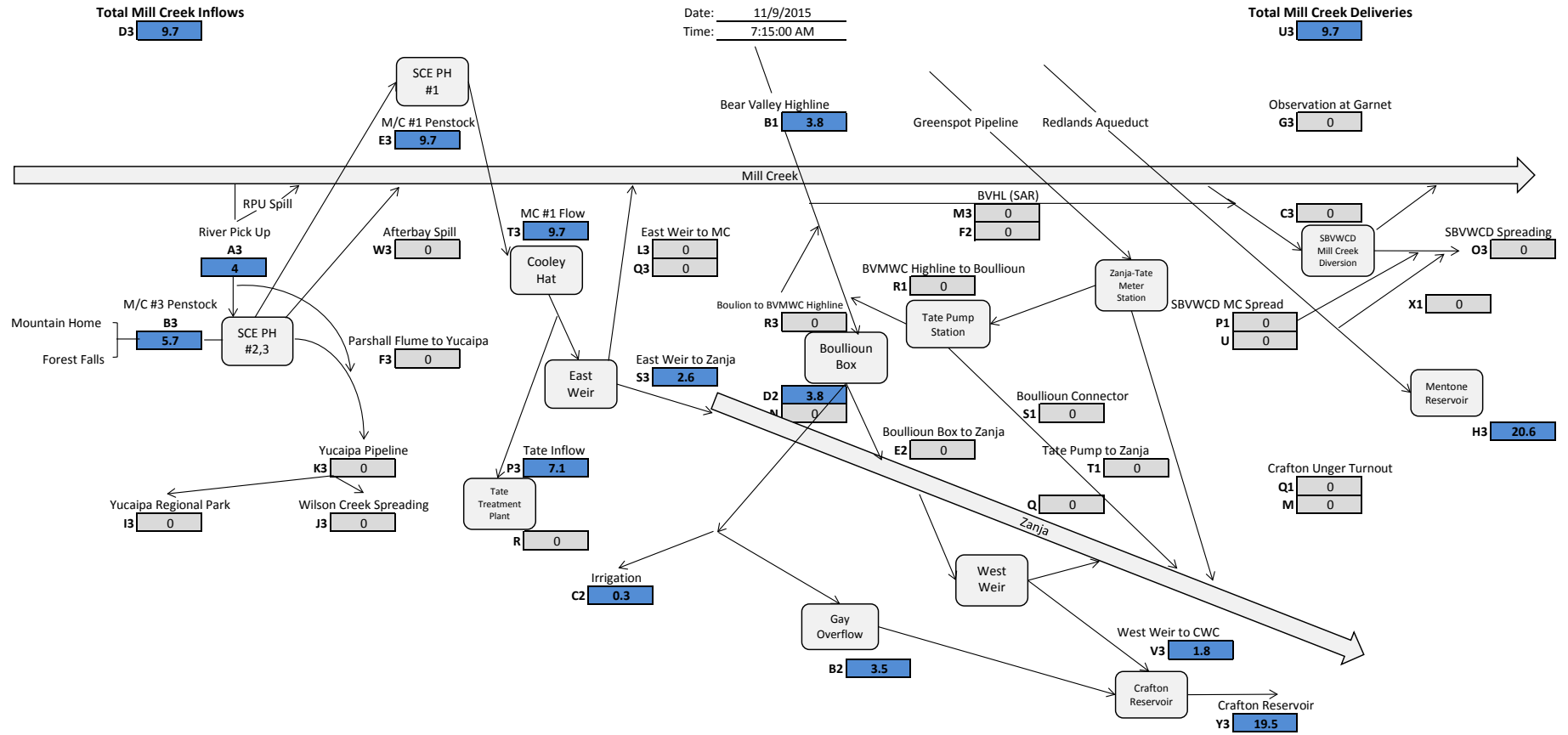
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.1	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	20.6
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	9.7	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.6	U3	Total MC Deliveries	9.7	V3	Zanja West Weir to CWC Canal	1.8
			T3	MC #1 Flow (Cooley Hat)	9.7				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									Y3	Crafton Reservoir Level (21.3)	19.5

### SBVWCD Recharge

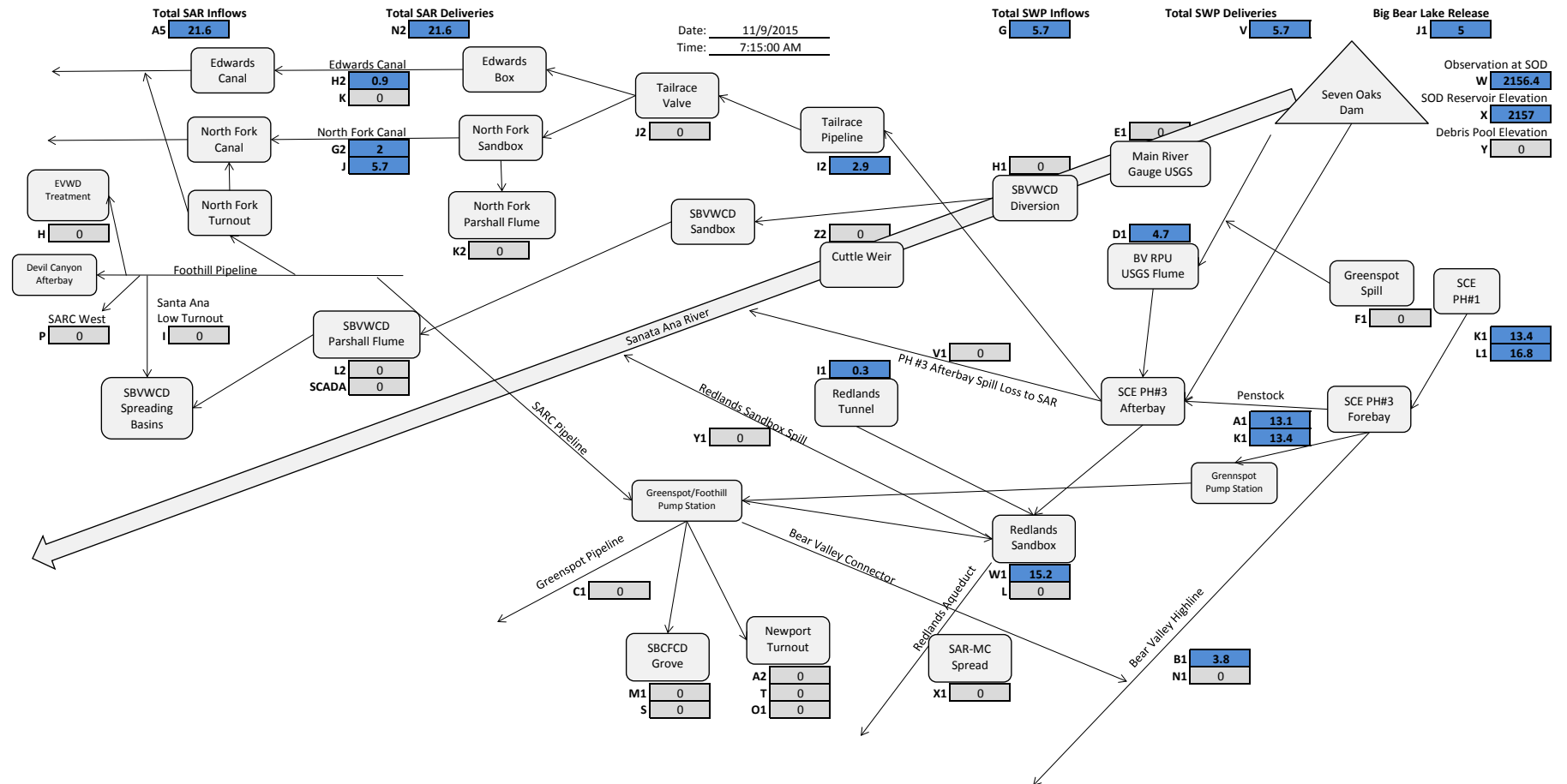
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	224.3	123,000	I4	2,472.4	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	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

## 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: 11/10/2015

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	21.2
<b>N2</b>	<b>Total SAR Deliveries</b>	21.2
A1	SAR PH#3 Penstock (calc)	12.8
B1	BVMWC Highline	3.8
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	14.5

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	6.3
<b>V</b>	<b>Total SWP Deliveries</b>	6.3
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.6

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	9.4
<b>U3</b>	<b>Total MC Deliveries</b>	9.4
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	9.4

Reservoir Levels	Feet
Observation at SOD	2156.4
Crafton Reservoir Level (21.3)	17.8
Mentone Reservoir Level	19.6

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	224	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 11/10/2015  
Time: 7:00:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	6.3	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	5.7
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	<b>Total SWP Inflows</b>	<b>6.3</b>	N	BVMWC Boulliou 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	<b>Total SWP Deliveries</b>	<b>6.3</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	2.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	14.8
Y1	Redlands Sandbox Spill	0.0
		minus
D1	BVMWC River PU (USGS)	4.6
I1	Redlands Tunnel	0.3
A1	SAR PH #3 Penstock (calc)	12.8
K1	PH3# Penstock (SCADA)	13.4

BVMWC Highline		
A2	Newport	0.0
D2	Boullioun Box Weir	3.8
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	BVMWC Highline	3.8
Other		
J1	Big Bear Lake Release	5.0
L1	SCE SAR AVM (SCADA)	17.3
X1	SAR-MC Spread (Red. Aqueduct)	0.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	4.6
E1	Main River Gage (USGS)	0.0
		minus
F1	Greenspot Spill	0.0
Z1	SOD Release Subtotal	4.6
Seven Oaks Dam		
w	Observation at SOD	2156.4
x	SOD Reservoir Elevation (scada)	2156.9
y	Debris Pool Elevation	0.0

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	12.8
B1	BVMWC Highline	3.8
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	4.6
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	□
A5	Total SAR Inflows	21.2

### Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries				
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	2.0	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	14.8
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		Parshall Flume (SCADA)		0.0		B1	BVMWC Highline	3.8	
R1	BVMWC Highline to Boullioun	0.0									C1	Greenspot Pipeline	0.0
S1	Crafton WC Boullioun	0.0									I2	Tailrace Pipeline	2.9
T1	Tate Pump Station to Zanja	0.0									L2	SBVWCD Parshall Flume	0.0
C1	Greenspot Pipeline	0.0									minus		

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	4.0	E3	M/C #1 Penstock Flow	9.4
B3	M/C #3 Penstock	5.4	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	9.4			

### Mill Creek Deliveries

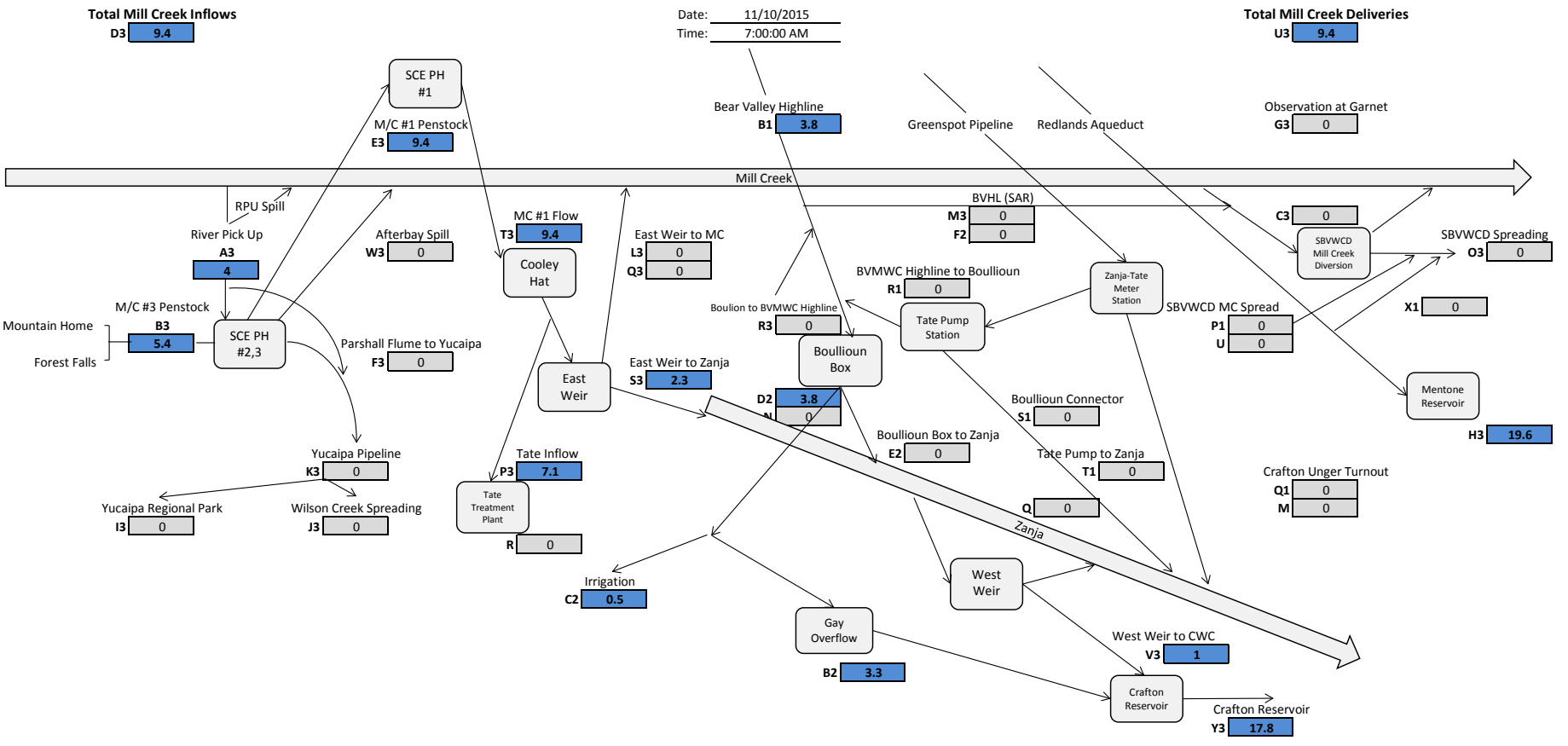
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.1	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.6
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	9.4	R3	Boullioum to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.3	U3	Total MC Deliveries	9.4	V3	Zanja West Weir to CWC Canal	1.0
			T3	MC #1 Flow (Cooley Hat)	9.4				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									Y3	Crafton Reservoir Level (21.3)	17.8

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

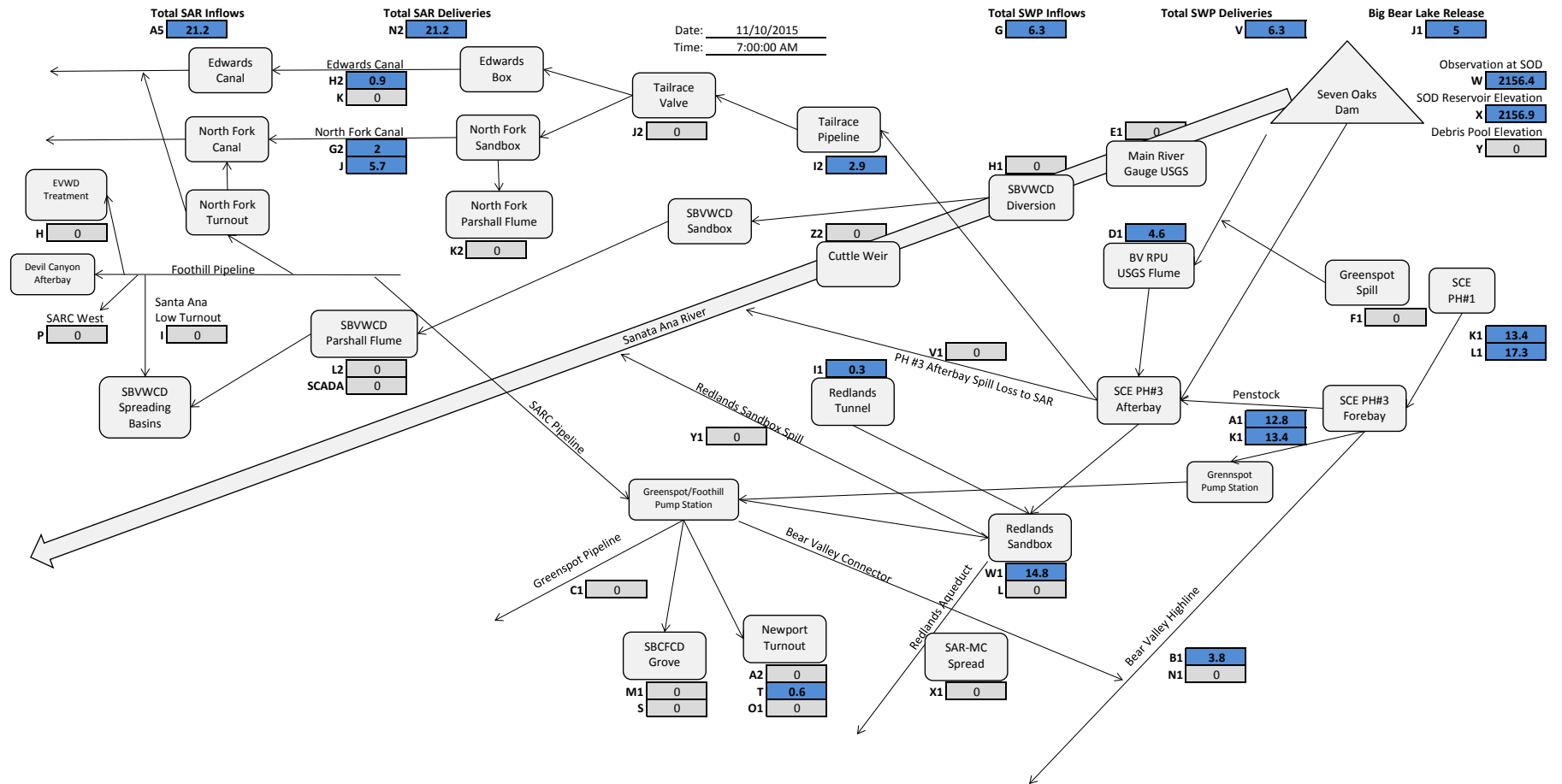
### SBVWCD Recharge

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	224.3	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  
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: 11/12/2015

Time: 8:00:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	21.4
<b>N2</b>	<b>Total SAR Deliveries</b>	21.4
A1	SAR PH#3 Penstock (calc)	12.8
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	14.5

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	6.5
<b>V</b>	<b>Total SWP Deliveries</b>	6.5
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.8

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	12.1
<b>U3</b>	<b>Total MC Deliveries</b>	12.1
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	12.1

Reservoir Levels	Feet
Observation at SOD	2156.4
Crafton Reservoir Level (21.3)	16.8
Mentone Reservoir Level	17.2

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	224	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

**Date:** 11/12/2015  
**Time:** 8:00:00 AM

### State Water Project

Inflows		Deliveries			
A	BBMWD In-lieu	6.5	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	5.7
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	<b>Total SWP Inflows</b>	<b>6.5</b>	N	BVMWC Boulliou 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	<b>Total SWP Deliveries</b>	<b>6.5</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows			
G2	Northfork Canal Weir	2.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.6	A1	SAR PH #3 Penstock (calc)	12.8	
H2	Edwards Canal	0.9	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	14.8							D1a	BV Pick-Up gated	<input type="checkbox"/>	
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	21.4	
minus			Other			Seven Oaks Dam						
D1	BVMWC River PU (USGS)	4.6	J1	Big Bear Lake Release	5.0	w	Observation at SOD	2156.4				
I1	Redlands Tunnel	0.3	L1	SCE SAR AVM (SCADA)	17.3	x	SOD Reservoir Elevation (scada)	2156.7				
A1	SAR PH #3 Penstock (calc)		12.8	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	0.0			
K1	PH3# Penstock (SCADA)		13.4									

### 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	2.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	2.9

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	4.0
	minus	
B2	Gay Overflow	2.2
C2	Irrigation	1.8

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	14.8
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.9
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	21.4

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	6.8	E3	M/C #1 Penstock Flow	12.1
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	12.1			

### Mill Creek Deliveries

Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	11.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	17.2
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	12.1	R3	Boullioum to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	1.1	U3	Total MC Deliveries	12.1	V3	Zanja West Weir to CWC Canal	0.6
			T3	MC #1 Flow (Cooley Hat)	12.1				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									Y3	Crafton Reservoir Level (21.3)	16.8

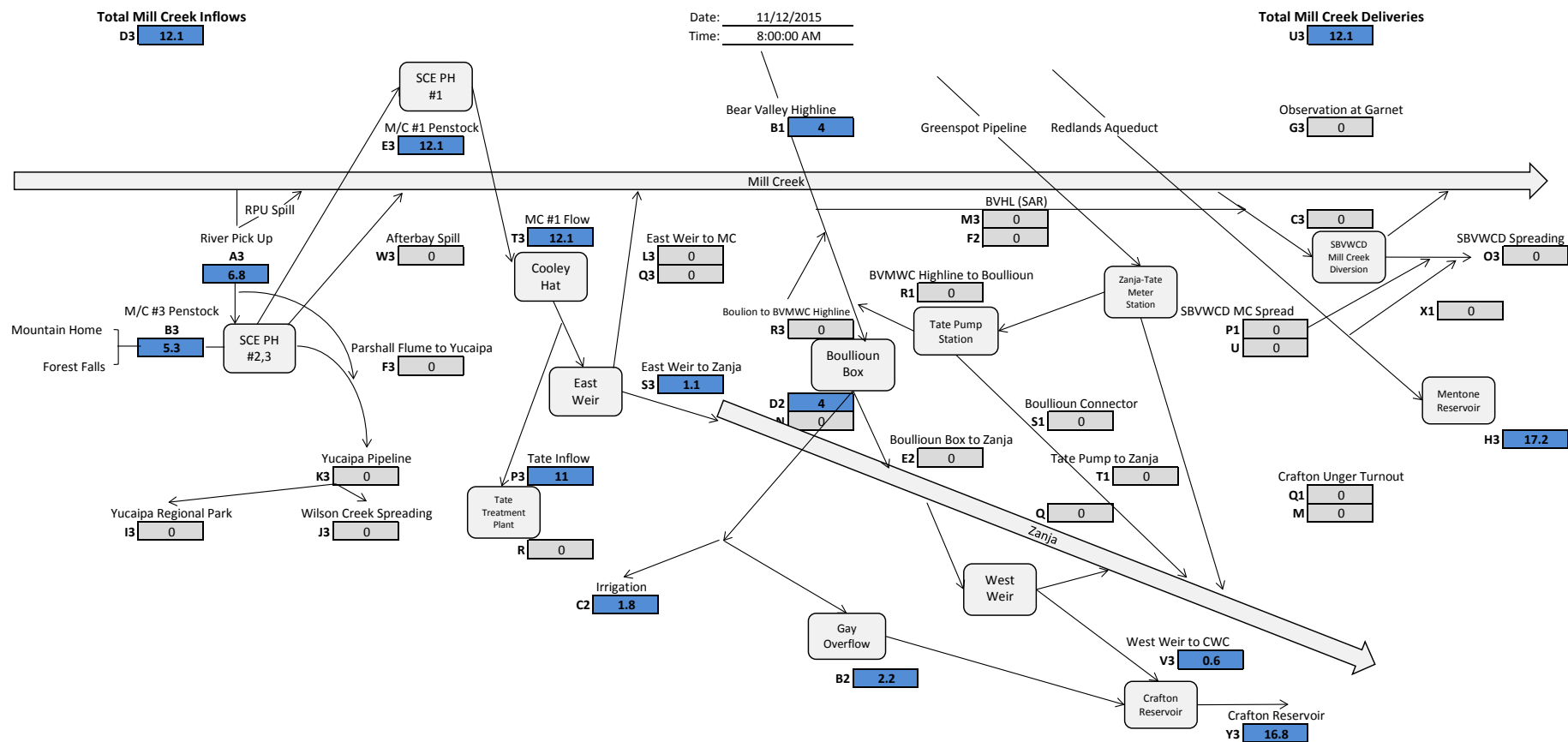
#### SBVWCD MC Spreading

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	<b>SBVWCD MC Spreading</b>	<b>0.0</b>

### SBVWCD Recharge

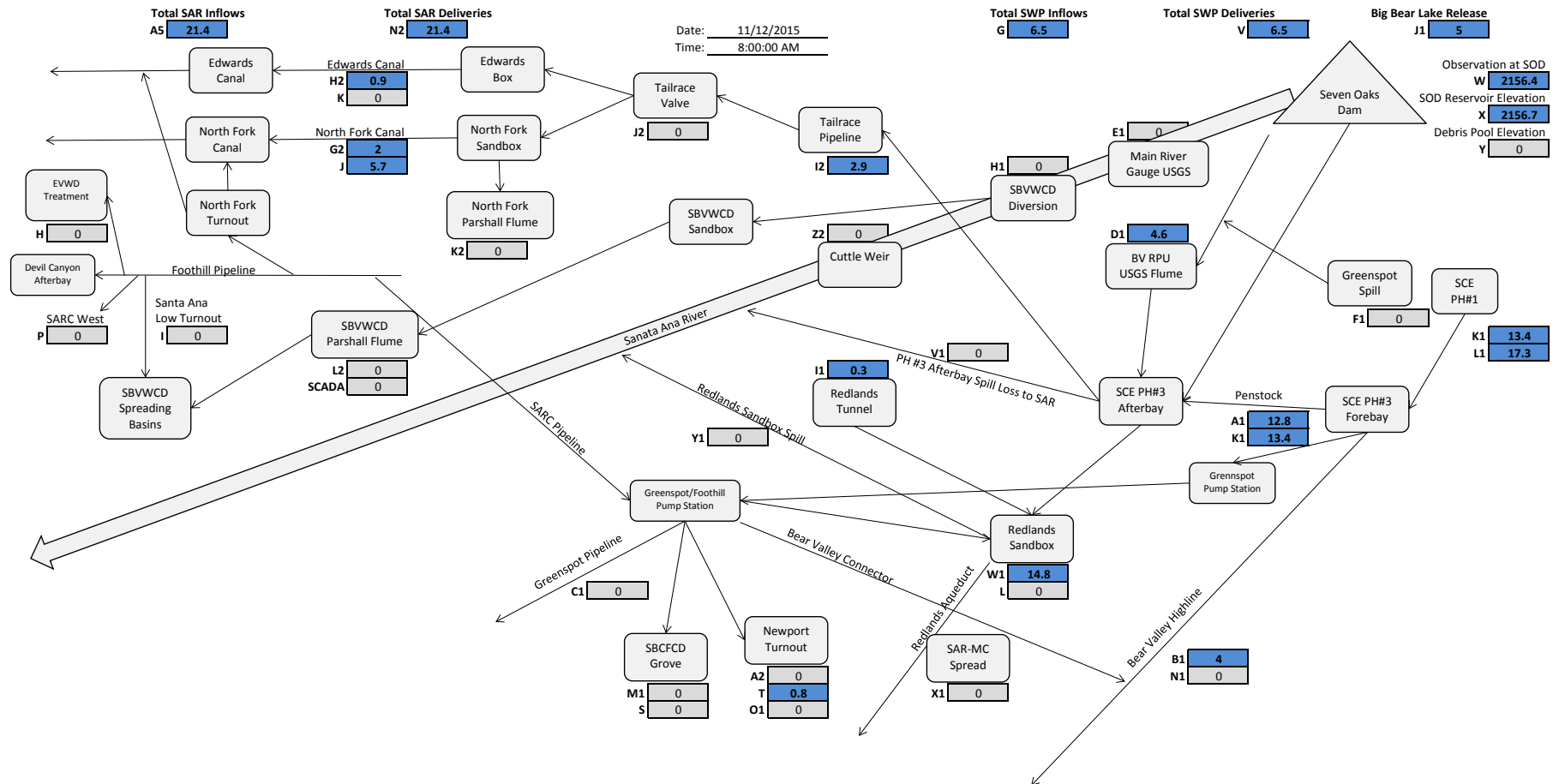
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	224.3	123,000	I4	2,472.4	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	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  
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: 11/13/2015

Time: 7:25:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	19.1
<b>N2</b>	<b>Total SAR Deliveries</b>	19.1
A1	SAR PH#3 Penstock (calc)	10.2
B1	BVMWC Highline	3.8
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.1
H2	Edwards Canal	0.8
W1	Redlands Aqueduct (calc)	12.4

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	6.4
<b>V</b>	<b>Total SWP Deliveries</b>	6.4
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.7

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	9.3
<b>U3</b>	<b>Total MC Deliveries</b>	9.3
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	9.3

Reservoir Levels	Feet
Observation at SOD	2156.4
Crafton Reservoir Level (21.3)	15.9
Mentone Reservoir Level	18.7

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	224	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 11/13/2015  
Time: 7:25:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	6.4	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	5.7
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	<b>Total SWP Inflows</b>	<b>6.4</b>	N	BVMWC Boulliou 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	0.7
			U	M/C spreading at Zanja Tate	0.0
			V	<b>Total SWP Deliveries</b>	<b>6.4</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	2.1	A2	Newport	0.0	D1	BVMWC River PU (USGS)	5.1	A1	SAR PH #3 Penstock (calc)	10.2
H2	Edwards Canal	0.8	D2	Boulliou Box Weir	3.8	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	3.8
J2	Tailrace Valve to Parshall Flume	0.0	E2	Boulliou 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)	5.1
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	<b>BVMWC Highline</b>	<b>3.8</b>	Z1	<b>SOD Release Subtotal</b>	<b>5.1</b>	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	12.7	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	2156.4	A5	<b>Total SAR Inflows</b>	<b>19.1</b>
minus			L1	SCE SAR AVM (SCADA)	15.3	X	SOD Reservoir Elevation (scada)	2156.7			
D1	BVMWC River PU (USGS)	5.1	X1	SAR-MC Spread (Red. Aqueduct)	0.0	Y	Debris Pool Elevation	0.0			
I1	Redlands Tunnel	0.3									
A1	<b>SAR PH #3 Penstock (calc)</b>	<b>10.2</b>									
K1	<b>PH3# Penstock (SCADA)</b>	<b>14.0</b>									

### Santa Ana River Deliveries

Greenspot Pipeline			Tailrace Pipeline			SBVWCD Parshall FlumeTo Basins			Deliveries		
M1	SBCFCD Grove	0.0	G2	Northfork Canal Weir	2.1	J2	Tailrace Valve to Parshall Flume	0.0	V1	SAR PH #3 Afterbay Spill	0.0
N1	BVMWC Highline	0.0	H2	Edwards Canal	0.8	K2	Northfork Parshall Flume	0.0	W1	Redlands Aqueduct / Sandbox	12.7
O1	Newport for BVMWC	0.0	J2	Tailrace Valve to Parshall Flume	0.0	H1	SBVWCD Diversion	0.0	Y1	Redlands Sandbox Spill	0.0
P1	SBVWCD Mill Creek Spreading	0.0	K2	Northfork Parshall Flume	0.0	L2	<b>SBVWCD Parshall Flume</b>	<b>0.0</b>	Z2	Cuttle Weir To River	0.0
Q1	Crafton WC Unger Lane	0.0	I2	<b>Tailrace Pipeline</b>	<b>2.9</b>		<b>Parshall Flume (SCADA)</b>	<b>0.0</b>	B1	BVMWC Highline	3.8
R1	BVMWC Highline to Boulliou	0.0				Irrigation			C1	Greenspot Pipeline	0.0
S1	Crafton WC Boulliou	0.0				D2	Boulliou Box Weir	3.8	I2	Tailrace Pipeline	2.9
T1	Tate Pump Station to Zanja	0.0				minus			L2	SBVWCD Parshall Flume	0.0
C1	<b>Greenspot Pipeline</b>	<b>0.0</b>				B2	Gay Overflow	2.8	minus		
						C2	<b>Irrigation</b>	<b>1.0</b>	J2	Tailrace Valve to Parshall Flume	0.0
									K2	Northfork Parshall Flume	0.0
									I1	Redlands Tunnel	0.3
									N2	<b>Total SAR Deliveries</b>	<b>19.1</b>

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	4.0	E3	M/C #1 Penstock Flow	9.3
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	<b>Total MC Inflows</b>	<b>9.3</b>			

### 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	18.7
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	<b>Mill Creek #1 Flow (Cooley Hat)</b>	<b>9.3</b>	R3	Boulliou to BVMWC Highline	0.0
K3	<b>Yucaipa Pipeline</b>	<b>0.0</b>	S3	East Weir to Zanja	2.3	U3	<b>Total MC Deliveries</b>	<b>9.3</b>	V3	Zanja West Weir to CWC Canal	0.1
			T3	<b>MC #1 Flow (Cooley Hat)</b>	<b>9.3</b>				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
									Y3	Crafton Reservoir Level (21.3)	15.9

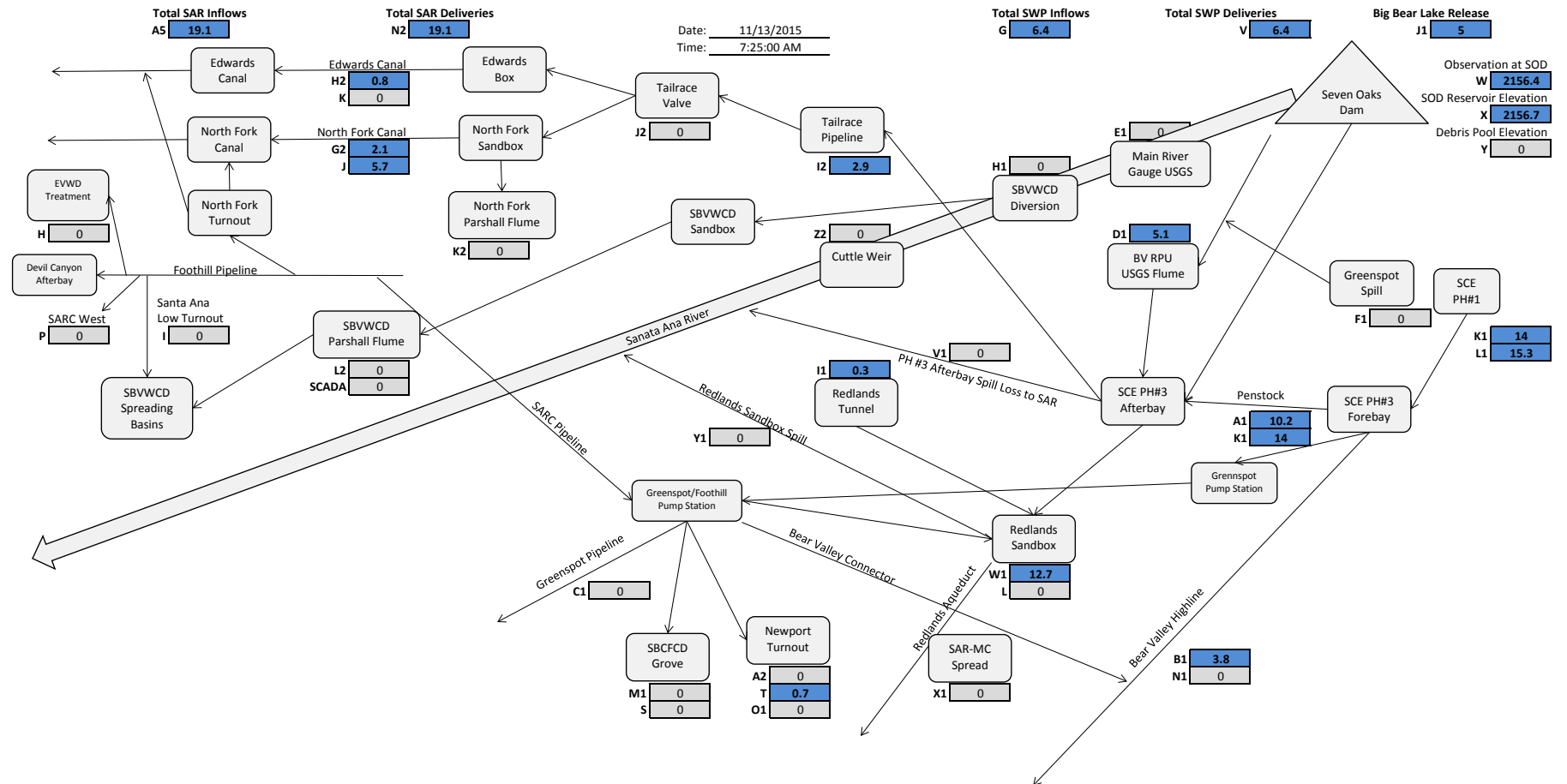
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	<b>SBVWCD MC Spreading</b>	<b>0.0</b>

### 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	224.3	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			

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



# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 11/16/2015

Time: 7:30:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	23.0
<b>N2</b>	<b>Total SAR Deliveries</b>	23.0
A1	SAR PH#3 Penstock (calc)	14.6
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	17.0

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	5.7
<b>V</b>	<b>Total SWP Deliveries</b>	5.7
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	9.3
<b>U3</b>	<b>Total MC Deliveries</b>	9.3
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	9.3

Reservoir Levels	Feet
Observation at SOD	2156.15
Crafton Reservoir Level (21.3)	17.5
Mentone Reservoir Level	22.2

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	224	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 11/16/2015  
Time: 7:30:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	5.7	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	5.7
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	<b>Total SWP Inflows</b>	<b>5.7</b>	N	BVMWC Boulliou 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	<b>Total SWP Deliveries</b>	<b>5.7</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	2.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	17.3
Y1	Redlands Sandbox Spill	0.0
		minus
D1	BVMWC River PU (USGS)	4.4
I1	Redlands Tunnel	0.3
A1	SAR PH #3 Penstock (calc)	14.6
K1	PH3# Penstock (SCADA)	14.7

BVMWC Highline		
A2	Newport	0.0
D2	Boullioun Box Weir	4.0
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	BVMWC Highline	4.0
Other		
J1	Big Bear Lake Release	5.0
L1	SCE SAR AVM (SCADA)	20.8
X1	SAR-MC Spread (Red. Aqueduct)	0.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	4.4
E1	Main River Gage (USGS)	0.0
		minus
F1	Greenspot Spill	0.0
Z1	SOD Release Subtotal	4.4
Seven Oaks Dam		
w	Observation at SOD	2156.2
x	SOD Reservoir Elevation (scada)	2155.9
y	Debris Pool Elevation	0.0

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	14.6
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	4.4
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	□
A5	Total SAR Inflows	23.0

### 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	2.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	2.0

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

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	17.3
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.0
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	23.0

Irrigation		
D2	Boullioun Box Weir	4.0
minus		
B2	Gay Overflow	3.7
C2	Irrigation	0.3

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	3.2	E3	M/C #1 Penstock Flow	9.3
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	9.3			

### 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	22.2
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	9.3	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.3	U3	Total MC Deliveries	9.3	V3	Zanja West Weir to CWC Canal	0.2
			T3	MC #1 Flow (Cooley Hat)	9.3				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									Y3	Crafton Reservoir Level (21.3)	17.5

#### SBVWCD MC Spreading

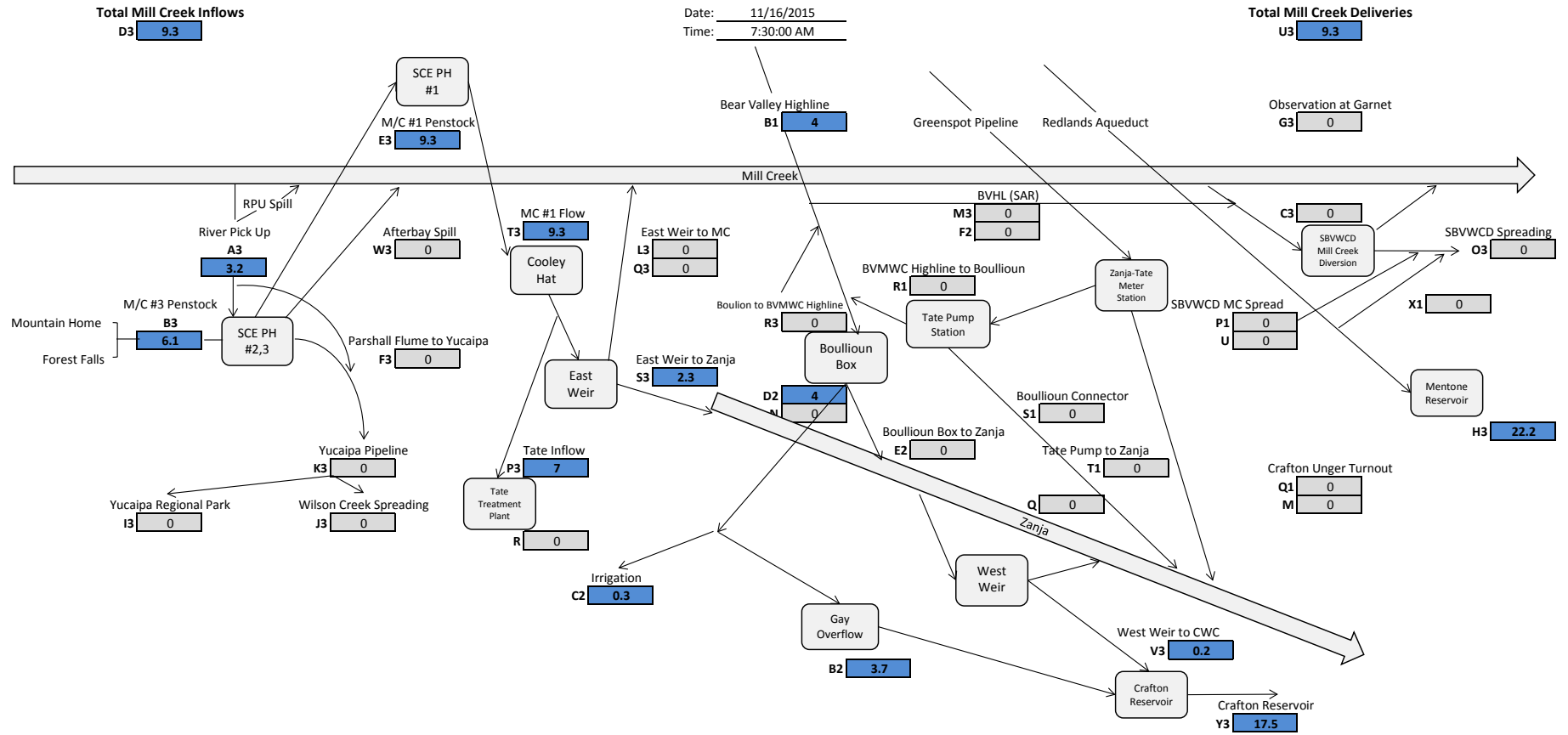
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	<b>SBVWCD MC Spreading</b>	<b>0.0</b>

### SBVWCD Recharge

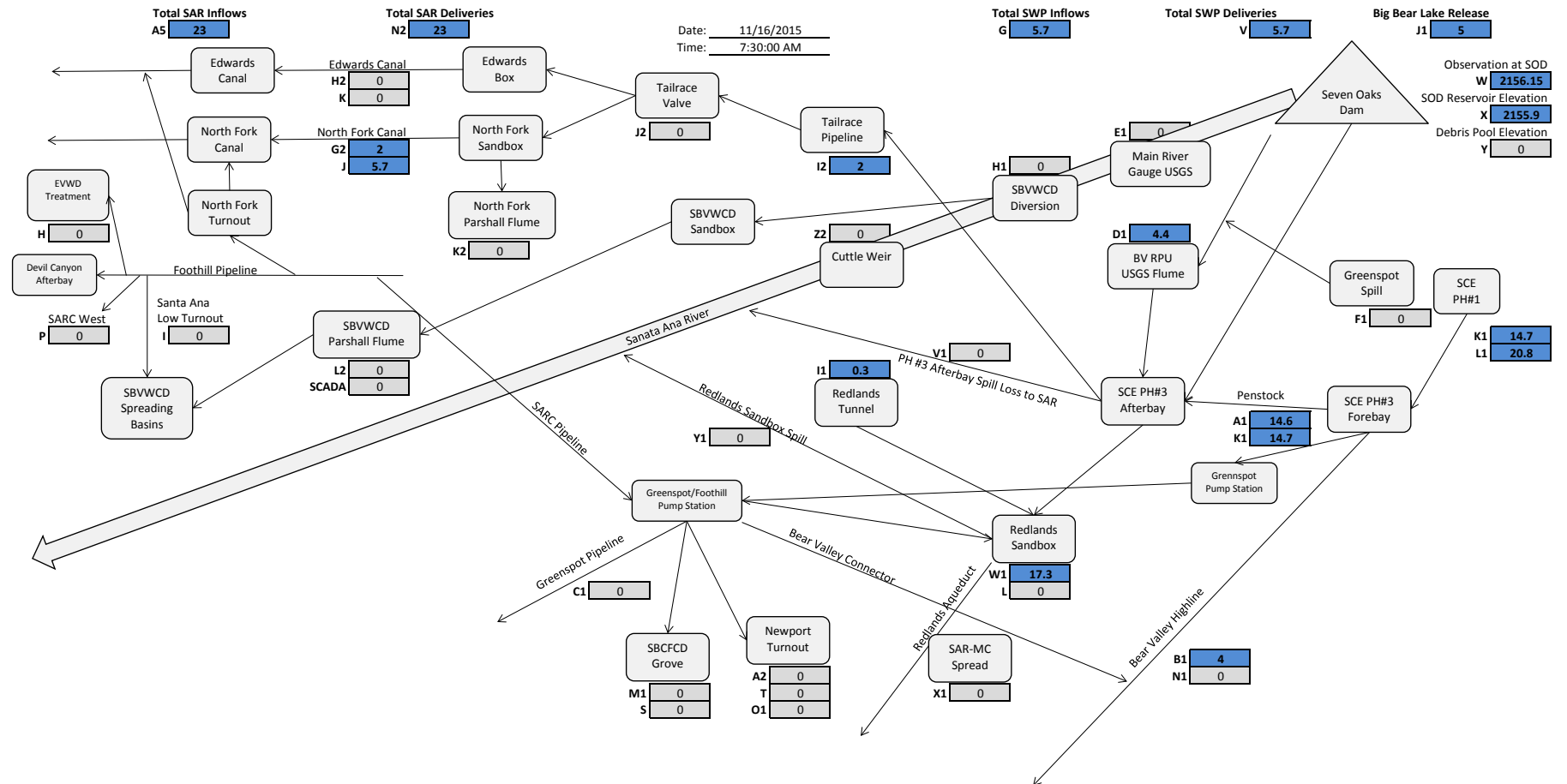
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	224.3	123,000	I4	2,472.4	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	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

## 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: 11/17/2015

Time: 7:00:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	29.3
<b>N2</b>	<b>Total SAR Deliveries</b>	29.3
A1	SAR PH#3 Penstock (calc)	20.1
B1	BVMWC Highline	4.1
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	11.7
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	11.5

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	5.7
<b>V</b>	<b>Total SWP Deliveries</b>	5.7
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	9.3
<b>U3</b>	<b>Total MC Deliveries</b>	9.3
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	9.3

Reservoir Levels	Feet
Observation at SOD	2156.15
Crafton Reservoir Level (21.3)	17.5
Mentone Reservoir Level	19.6

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	245	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

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## Daily Flow Report

**Date:** 11/17/2015  
**Time:** 7:00:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	5.7	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	5.7
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	<b>Total SWP Inflows</b>	<b>5.7</b>	N	BVMWC Boulliou 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	<b>Total SWP Deliveries</b>	<b>5.7</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	2.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	5.1	A1	SAR PH #3 Penstock (calc)	20.1
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	4.1	E1	Main River Gage (USGS)	0.0	B1	BVMWC Highline	4.1
J2	Tailrace Valve to Parshall Flume	11.7	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)	5.1
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline 4.1		Z1	SOD Release Subtotal 5.1		E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	11.8							D1a	BV Pick-Up gated	<input type="checkbox"/>
Y1	Redlands Sandbox Spill	0.0							A5	Total SAR Inflows	29.3
minus			Other			Seven Oaks Dam					
D1	BVMWC River PU (USGS)	5.1	J1	Big Bear Lake Release	5.0	w	Observation at SOD	2156.2			
I1	Redlands Tunnel	0.3	L1	SCE SAR AVM (SCADA)	18.9	x	SOD Reservoir Elevation (scada)	2155.9			
A1	SAR PH #3 Penstock (calc) 20.1		X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation	0.0			
K1	PH3# Penstock (SCADA) 21.1										

### 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	2.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	11.7
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	13.7

SBVWCD Parshall FlumeTo Basins		
J2	Tailrace Valve to Parshall Flume	11.7
K2	Northfork Parshall Flume	0.0
H1	SBVWCD Diversion	0.0
L2	SBVWCD Parshall Flume	11.7
	Parshall Flume (SCADA)	0.0

Irrigation		
D2	Boullioun Box Weir	4.1
	minus	
B2	Gay Overflow	3.7
C2	Irrigation	0.4

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	11.8
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	4.1
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	13.7
L2	SBVWCD Parshall Flume	11.7
	minus	
J2	Tailrace Valve to Parshall Flume	11.7
K2	Northfork Parshall Flume	0.0
I1	Redlands Tunnel	0.3
N2	Total SAR Deliveries	29.3

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	3.6	E3	M/C #1 Penstock Flow	9.3
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	9.3			

### 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	19.6
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	9.3	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.3	U3	Total MC Deliveries	9.3	V3	Zanja West Weir to CWC Canal	0.8
			T3	MC #1 Flow (Cooley Hat)	9.3				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									Y3	Crafton Reservoir Level (21.3)	17.5

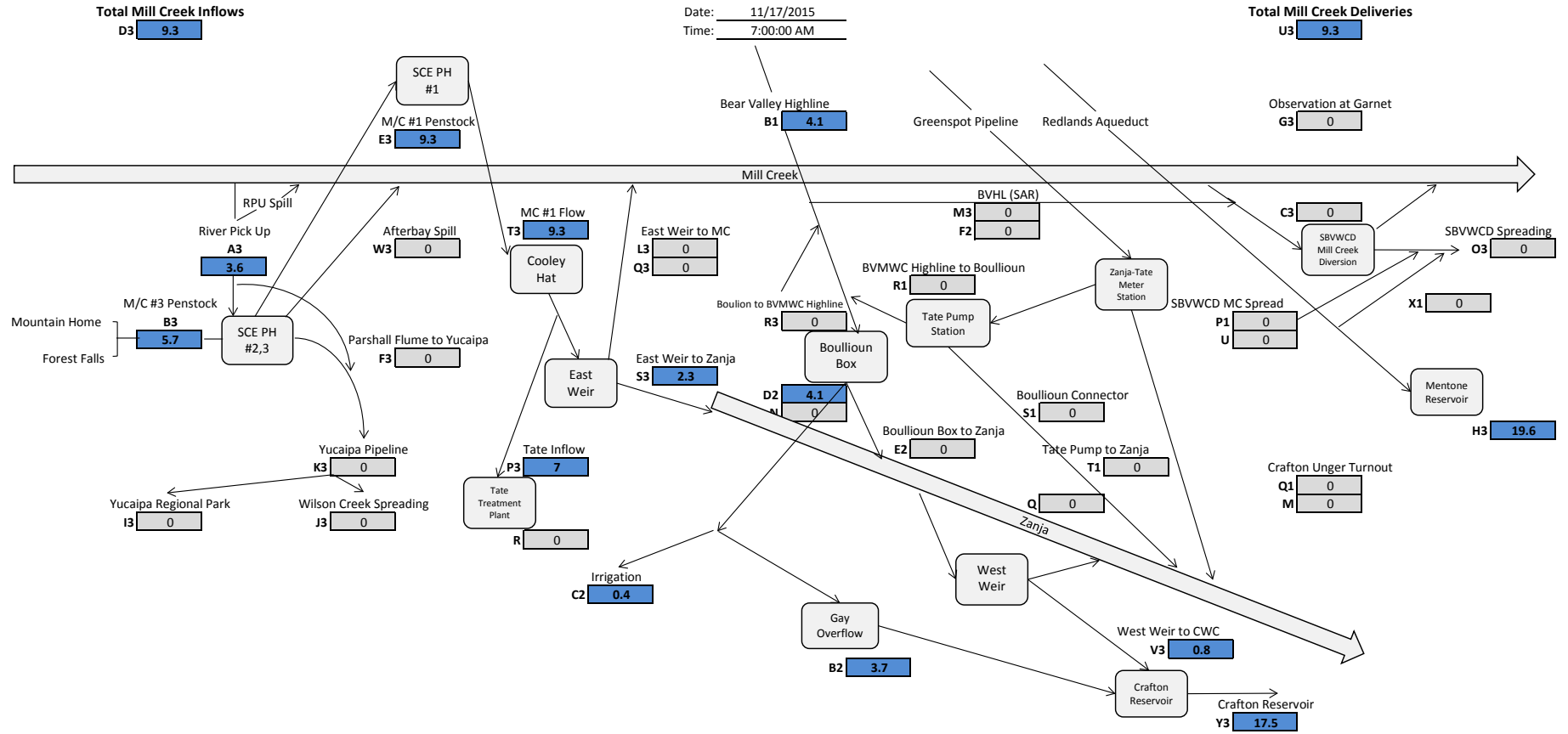
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	0.0

### SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	20.9	I4	245.2	123,000	I4	2,493.3	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		

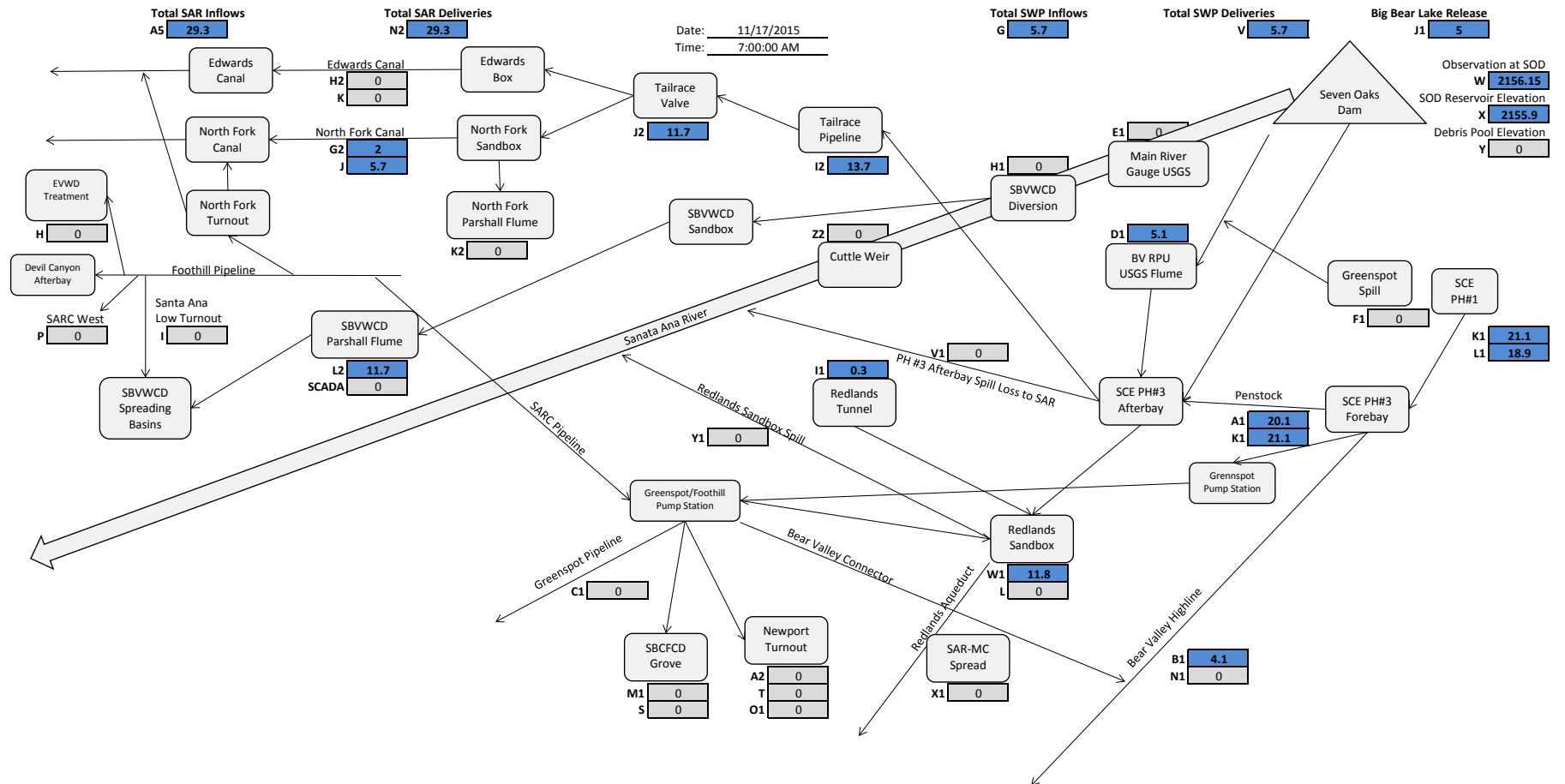
# Santa Ana River - Mill Creek Cooperative Water Project

## 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: 11/18/2015

Time: 7:15:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	22.0
<b>N2</b>	<b>Total SAR Deliveries</b>	22.0
A1	SAR PH#3 Penstock (calc)	12.9
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	15.1

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	5.7
<b>V</b>	<b>Total SWP Deliveries</b>	5.7
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	9.6
<b>U3</b>	<b>Total MC Deliveries</b>	9.6
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	9.6

Reservoir Levels	Feet
Observation at SOD	2156.15
Crafton Reservoir Level (21.3)	17.5
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	245	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

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## Daily Flow Report

Date: 11/18/2015  
Time: 7:15:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	5.7	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	5.7
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	<b>Total SWP Inflows</b>	<b>5.7</b>	N	BVMWC Boullion 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	<b>Total SWP Deliveries</b>	<b>5.7</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	2.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	15.4
Y1	Redlands Sandbox Spill	0.0
		minus
D1	BVMWC River PU (USGS)	5.1
I1	Redlands Tunnel	0.3
A1	SAR PH #3 Penstock (calc) 12.9	
K1	PH3# Penstock (SCADA) 11.5	

BVMWC Highline		
A2	Newport	0.0
D2	Boulliou Box Weir	4.0
E2	Boulliou Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	BVMWC Highline 4.0	
Other		
J1	Big Bear Lake Release	5.0
L1	SCE SAR AVM (SCADA)	17.6
X1	SAR-MC Spread (Red. Aqueduct)	0.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	5.1
E1	Main River Gage (USGS)	0.0
		minus
F1	Greenspot Spill	0.0
Z1	SOD Release Subtotal 5.1	
Seven Oaks Dam		
w	Observation at SOD	2156.2
x	SOD Reservoir Elevation (scada)	2155.9
y	Debris Pool Elevation	0.0

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	12.9
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	5.1
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	□
A5	Total SAR Inflows 22.0	

### 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	2.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	2.9

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	4.0
	minus	
B2	Gay Overflow	3.2
C2	Irrigation	0.8

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	15.4
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	4.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.9
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	22.0

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	3.9	E3	M/C #1 Penstock Flow	9.6
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	9.6			

### Mill Creek Deliveries

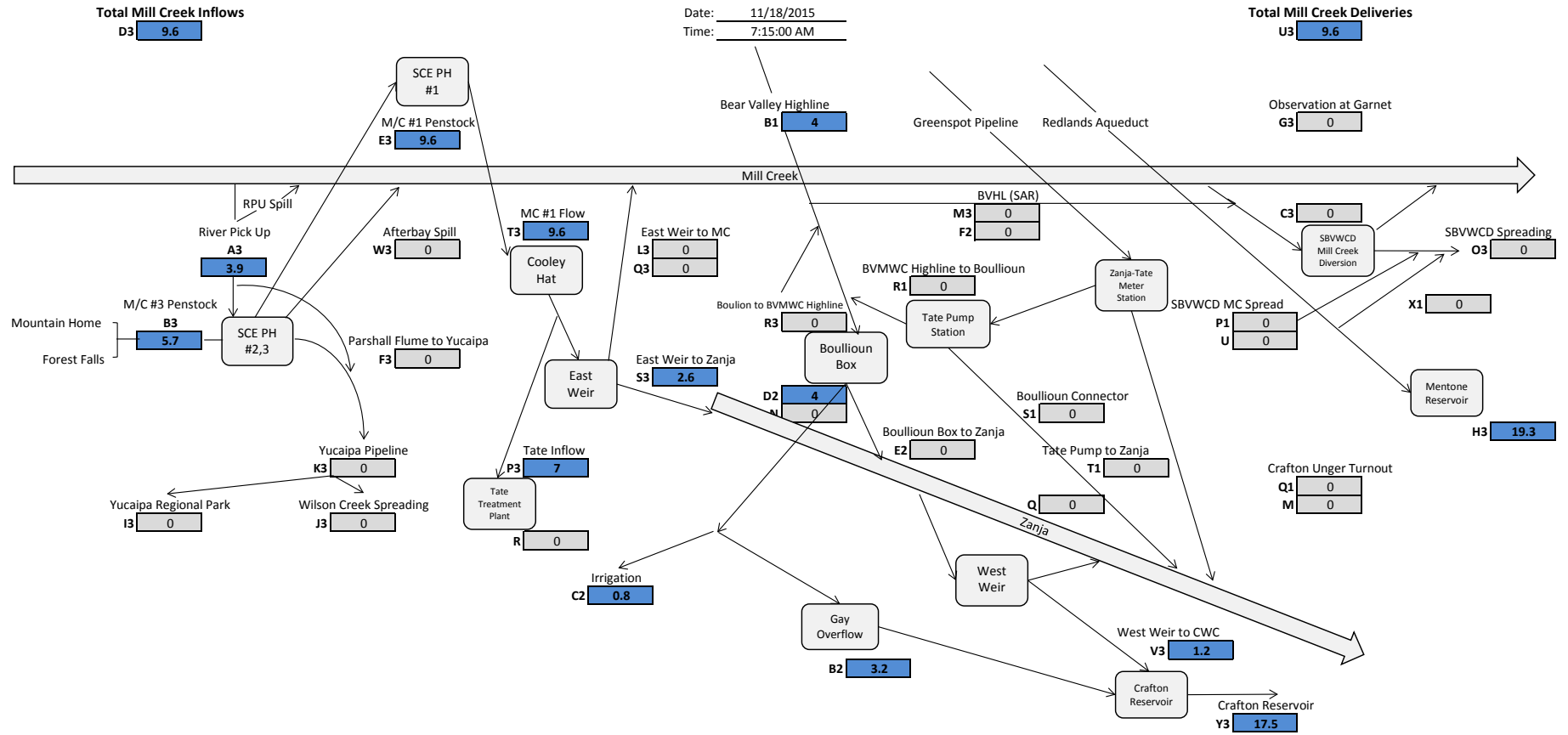
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
I3	Yucaipa Regional Park	0.0	P3	Tate Inflow	7.0	C3	SBVWCD Mill Creek Diversion	0.0	H3	Mentone Reservoir Level	19.3
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	9.6	R3	Boullion to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	2.6	U3	Total MC Deliveries	9.6	V3	Zanja West Weir to CWC Canal	1.2
			T3	MC #1 Flow (Cooley Hat)	9.6				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									Y3	Crafton Reservoir Level (21.3)	17.5

### 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	245.2	123,000	I4	2,493.3	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		

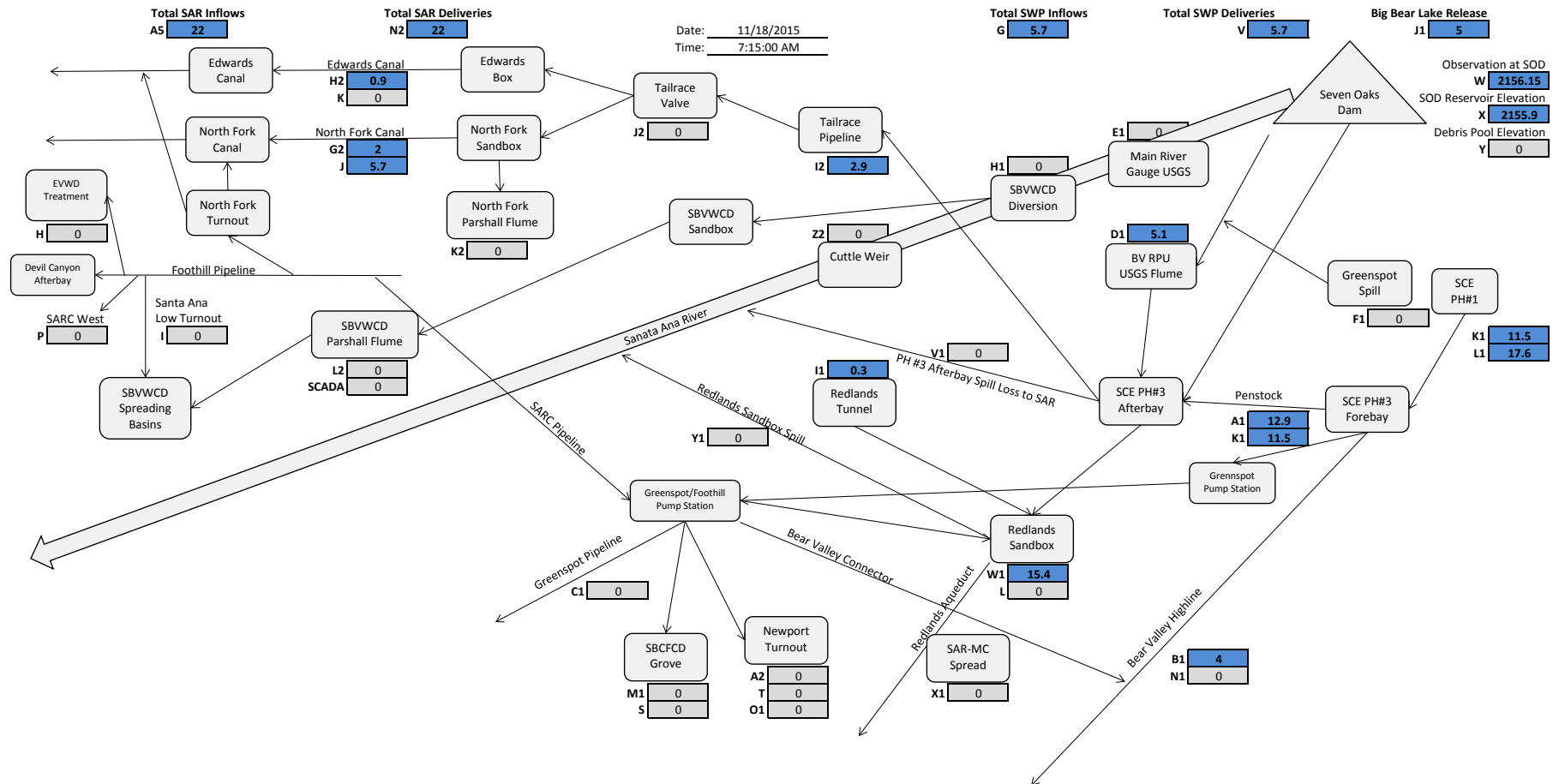
# Santa Ana River - Mill Creek Cooperative Water Project

## 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: 11/19/2015

Time: 7:30:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	21.0
<b>N2</b>	<b>Total SAR Deliveries</b>	21.0
A1	SAR PH#3 Penstock (calc)	11.6
B1	BVMWC Highline	3.2
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	14.9

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	6.5
<b>V</b>	<b>Total SWP Deliveries</b>	6.5
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.8

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	9.5
<b>U3</b>	<b>Total MC Deliveries</b>	9.5
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	9.5

Reservoir Levels	Feet
Observation at SOD	2156.15
Crafton Reservoir Level (21.3)	18
Mentone Reservoir Level	18.5

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	245	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 11/19/2015  
Time: 7:30:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	6.5	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	5.7
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	<b>Total SWP Inflows</b>	<b>6.5</b>	N	BVMWC Boulliou 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	<b>Total SWP Deliveries</b>	<b>6.5</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	2.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	15.2
Y1	Redlands Sandbox Spill	0.0
		minus
D1	BVMWC River PU (USGS)	6.2
I1	Redlands Tunnel	0.3
A1	SAR PH #3 Penstock (calc)	11.6
K1	PH3# Penstock (SCADA)	11.1

BVMWC Highline		
A2	Newport	0.0
D2	Boullioun Box Weir	3.2
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	BVMWC Highline	3.2
Other		
J1	Big Bear Lake Release	5.0
L1	SCE SAR AVM (SCADA)	13.8
X1	SAR-MC Spread (Red. Aqueduct)	0.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	6.2
E1	Main River Gage (USGS)	0.0
		minus
F1	Greenspot Spill	0.0
Z1	SOD Release Subtotal	6.2
Seven Oaks Dam		
w	Observation at SOD	2156.2
x	SOD Reservoir Elevation (scada)	2155.9
y	Debris Pool Elevation	0.0

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	11.6
B1	BVMWC Highline	3.2
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	6.2
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	□
A5	Total SAR Inflows	21.0

### 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	2.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	2.9

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

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	15.2
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	3.2
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.9
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	21.0

Irrigation		
D2	Boullioun Box Weir	3.2
minus		
B2	Gay Overflow	2.2
C2	Irrigation	1.0

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	3.8	E3	M/C #1 Penstock Flow	9.5
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	9.5			

### Mill Creek Deliveries

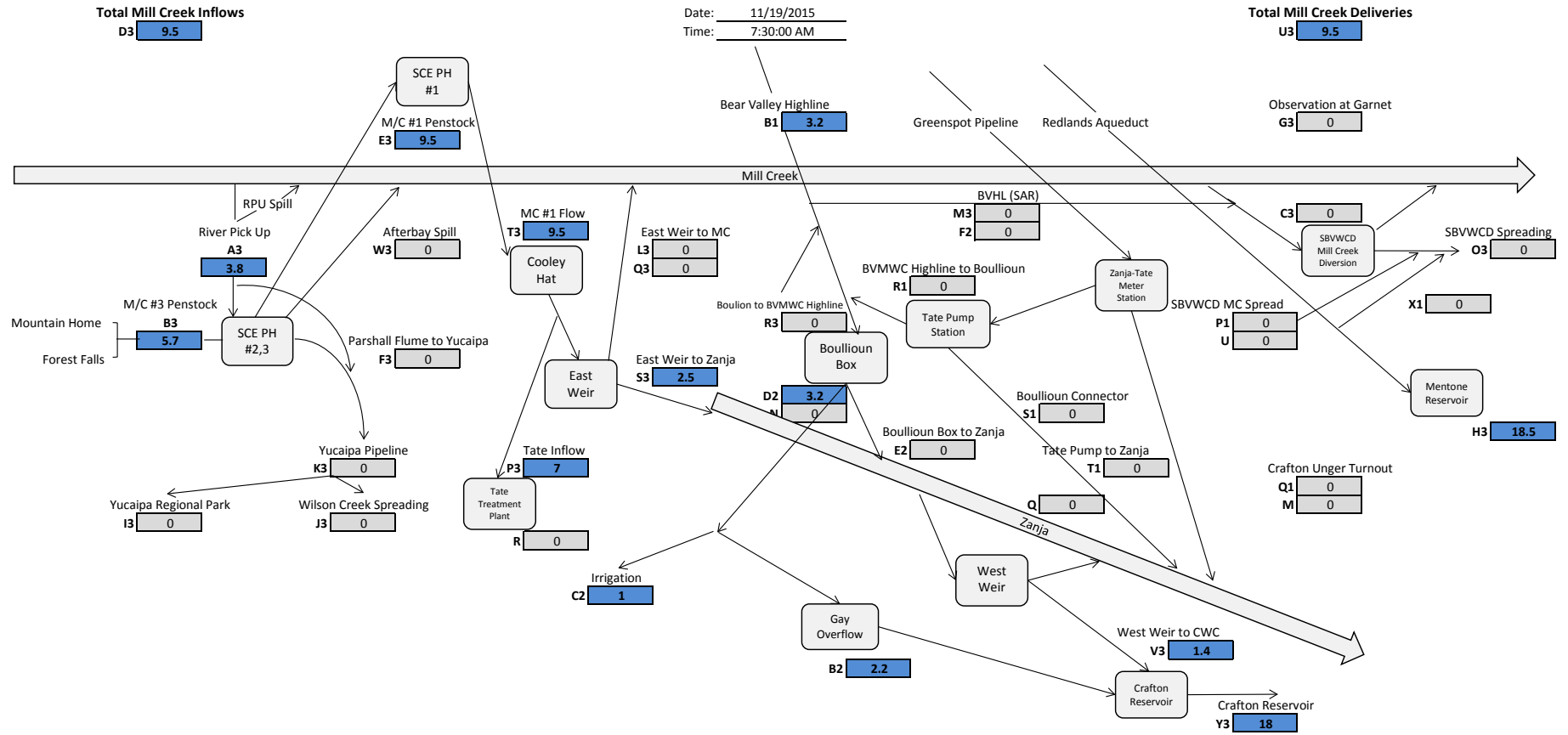
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
i3	Yucaipa Regional Park	0.0	p3	Tate Inflow	7.0	c3	SBVWCD Mill Creek Diversion	0.0	h3	Mentone Reservoir Level	18.5
j3	Wilson Creek Spreading	0.0	q3	East Weir to Mill Creek	0.0	t3	Mill Creek #1 Flow (Cooley Hat)	9.5	r3	Boullioun to BVMWC Highline	0.0
k3	Yucaipa Pipeline	0.0	s3	East Weir to Zanja	2.5	u3	Total MC Deliveries	9.5	v3	Zanja West Weir to CWC Canal	1.4
			t3	MC #1 Flow (Cooley Hat)	9.5				w3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									y3	Crafton Reservoir Level (21.3)	18.0

### 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	245.2	123,000	I4	2,493.3	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		

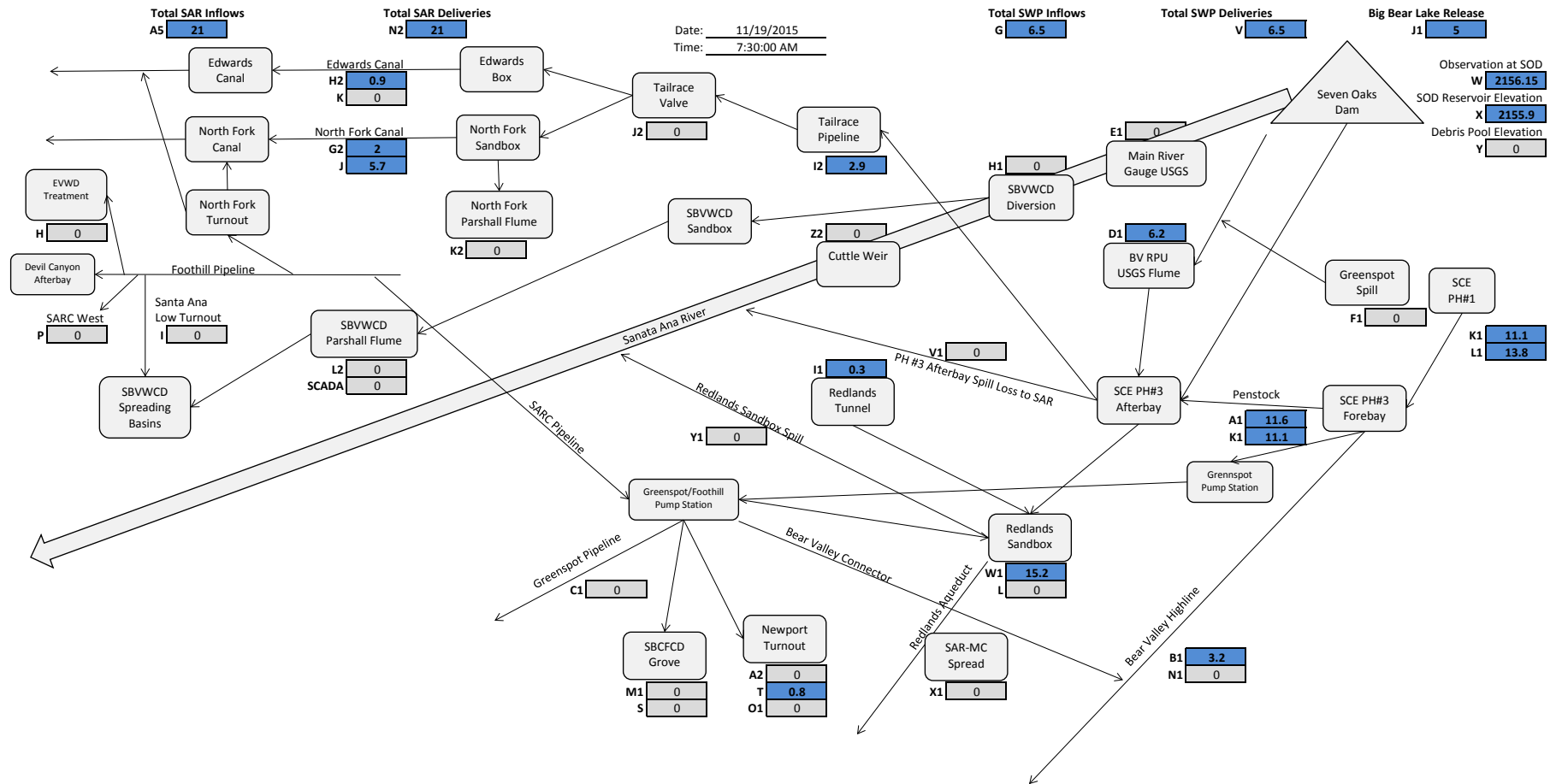
# Santa Ana River - Mill Creek Cooperative Water Project

## 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: 11/20/2015

Time: 7:30:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	21.2
<b>N2</b>	<b>Total SAR Deliveries</b>	21.2
A1	SAR PH#3 Penstock (calc)	13.6
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.9
W1	Redlands Aqueduct (calc)	15.3

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	6.5
<b>V</b>	<b>Total SWP Deliveries</b>	6.5
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.8

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	7.8
<b>U3</b>	<b>Total MC Deliveries</b>	7.8
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	7.8

Reservoir Levels	Feet
Observation at SOD	2155.6
Crafton Reservoir Level (21.3)	18.7
Mentone Reservoir Level	18.5

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	245	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 11/20/2015  
Time: 7:30:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	6.5	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	5.7
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	<b>Total SWP Inflows</b>	<b>6.5</b>	N	BVMWC Boullion 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	<b>Total SWP Deliveries</b>	<b>6.5</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	2.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.6	A1	SAR PH #3 Penstock (calc)	13.6
H2	Edwards Canal	0.9	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)	4.6
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline 3.0		Z1	SOD Release Subtotal 4.6		E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	15.6							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	Other			Seven Oaks Dam			A5	Total SAR Inflows 21.2	
minus			J1	Big Bear Lake Release	5.0	w	Observation at SOD	2155.6			
D1	BVMWC River PU (USGS)	4.6	L1	SCE SAR AVM (SCADA)	14.8	x	SOD Reservoir Elevation (scada)	2156.1			
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) 13.6										
K1	PH3# Penstock (SCADA) 13.6										

### 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	2.0
H2	Edwards Canal	0.9
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	2.9

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

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	15.6
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.9
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	21.2

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

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.5	E3	M/C #1 Penstock Flow	7.8
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	7.8			

### Mill Creek Deliveries

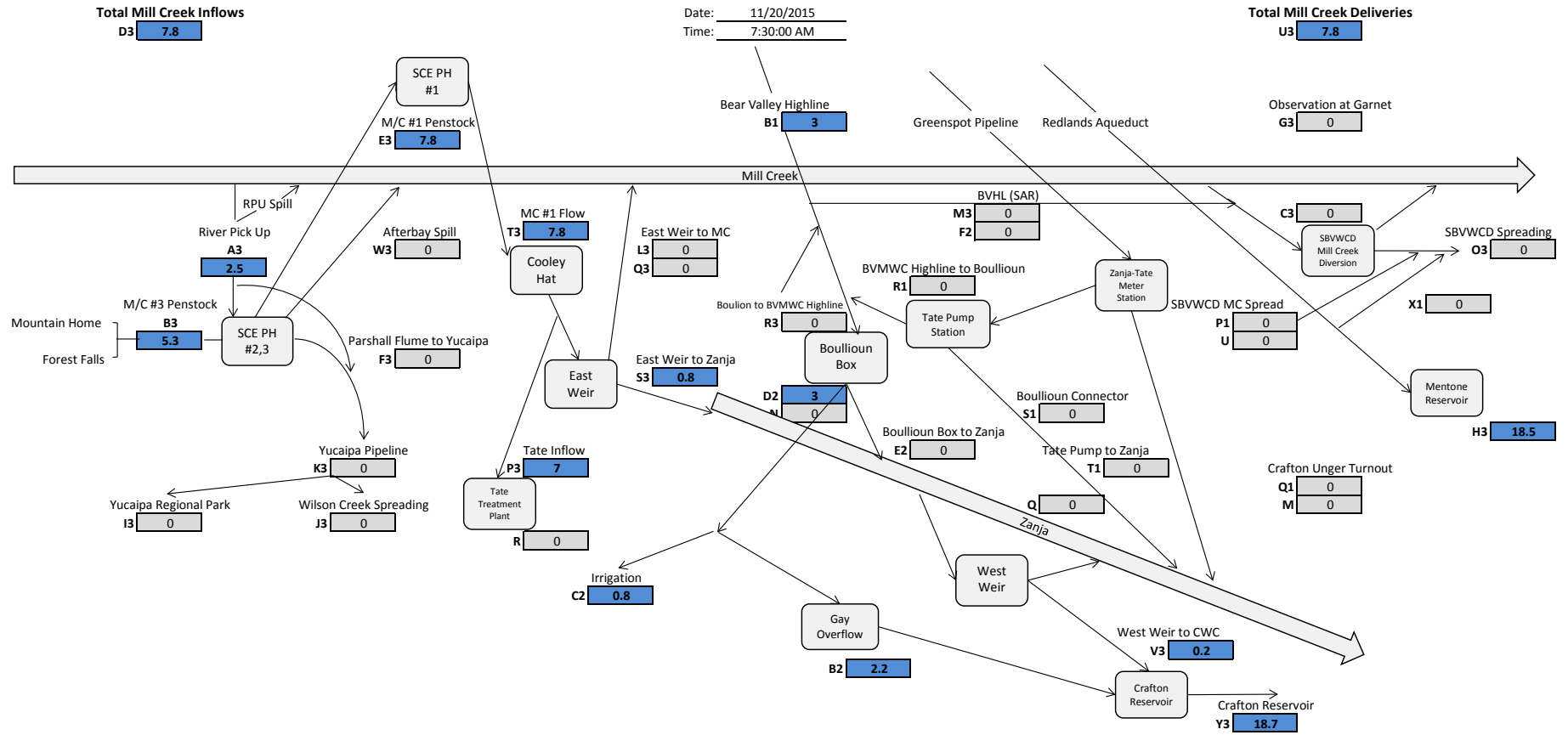
Yucaipa Pipeline			MC #1 Flow (Cooley Hat)			Total MC Deliveries			Other		
i3	Yucaipa Regional Park	0.0	p3	Tate Inflow	7.0	c3	SBVWCD Mill Creek Diversion	0.0	h3	Mentone Reservoir Level	18.5
j3	Wilson Creek Spreading	0.0	q3	East Weir to Mill Creek	0.0	t3	Mill Creek #1 Flow (Cooley Hat)	7.8	r3	Boullion to BVMWC Highline	0.0
k3	Yucaipa Pipeline	0.0	s3	East Weir to Zanja	0.8	u3	Total MC Deliveries	7.8	v3	Zanja West Weir to CWC Canal	0.2
			t3	MC #1 Flow (Cooley Hat)	7.8				w3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									y3	Crafton Reservoir Level (21.3)	18.7

### 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	245.2	123,000	I4	2,493.3	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				

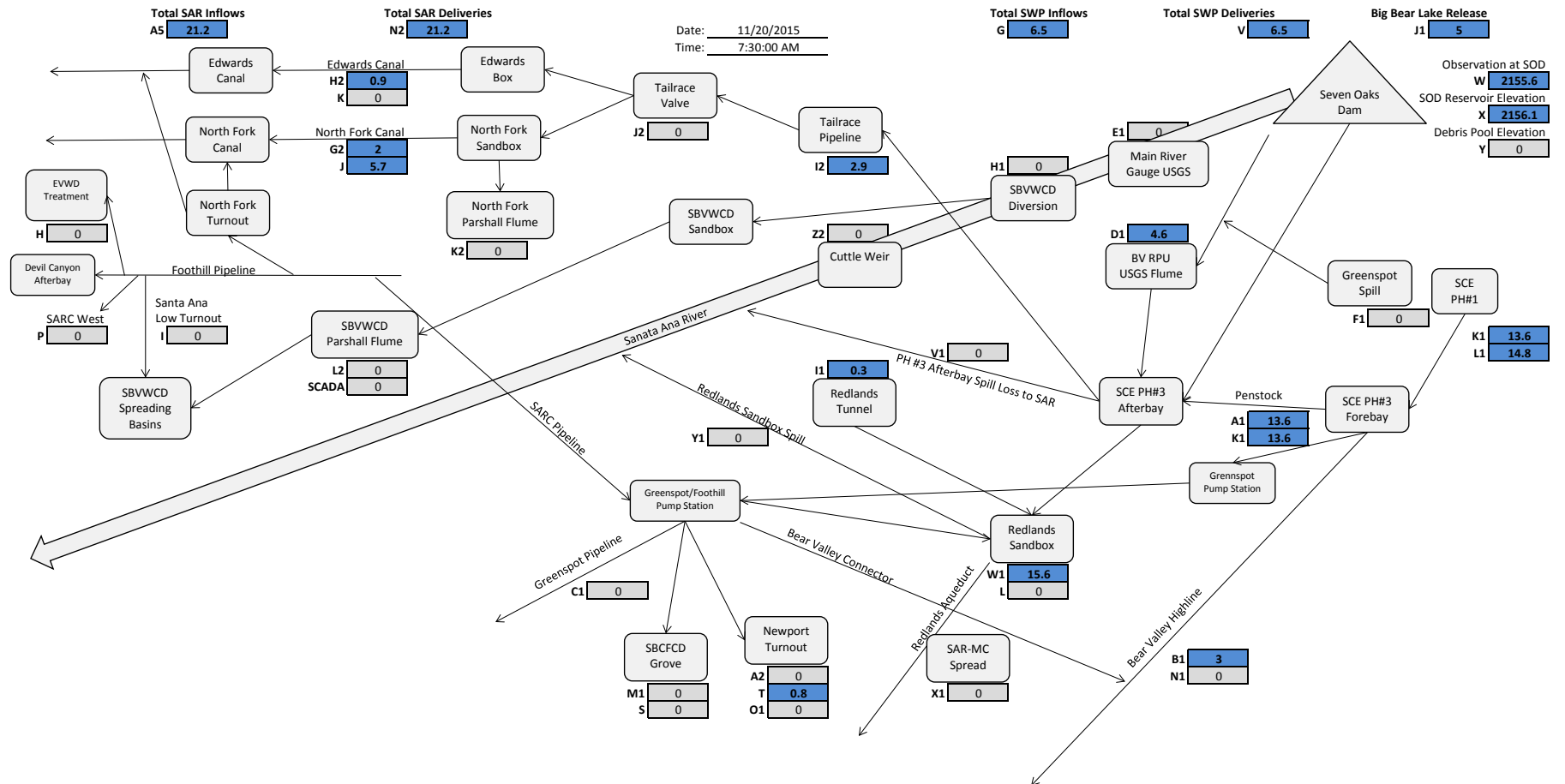
# Santa Ana River - Mill Creek Cooperative Water Project

## 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: 11/23/2015

Time: 7:15:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	21.5
<b>N2</b>	<b>Total SAR Deliveries</b>	21.5
A1	SAR PH#3 Penstock (calc)	13.9
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	16.5

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	6.4
<b>V</b>	<b>Total SWP Deliveries</b>	6.4
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.7

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	7.8
<b>U3</b>	<b>Total MC Deliveries</b>	7.8
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	7.8

Reservoir Levels	Feet
Observation at SOD	2155
Crafton Reservoir Level (21.3)	19
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	245	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 11/23/2015  
Time: 7:15:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	6.4	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	5.7
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	<b>Total SWP Inflows</b>	<b>6.4</b>	N	BVMWC Boulliou 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	0.7
			U	M/C spreading at Zanja Tate	0.0
			V	<b>Total SWP Deliveries</b>	<b>6.4</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	2.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	16.8
Y1	Redlands Sandbox Spill	0.0
		minus
D1	BVMWC River PU (USGS)	4.6
I1	Redlands Tunnel	0.3
A1	SAR PH #3 Penstock (calc)	13.9
K1	PH3# Penstock (SCADA)	13.6

BVMWC Highline		
A2	Newport	0.0
D2	Boullioun Box Weir	3.0
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	BVMWC Highline	3.0
Other		
J1	Big Bear Lake Release	5.0
L1	SCE SAR AVM (SCADA)	17.2
X1	SAR-MC Spread (Red. Aqueduct)	0.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	4.6
E1	Main River Gage (USGS)	0.0
		minus
F1	Greenspot Spill	0.0
Z1	SOD Release Subtotal	4.6
Seven Oaks Dam		
w	Observation at SOD	2155.0
x	SOD Reservoir Elevation (scada)	2155.8
y	Debris Pool Elevation	0.0

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	13.9
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	4.6
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	□
A5	Total SAR Inflows	21.5

### 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	2.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	2.0

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	3.0
		minus
B2	Gay Overflow	3.0
C2	Irrigation	0.0

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	16.8
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.0
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	21.5

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.4	E3	M/C #1 Penstock Flow	7.8
B3	M/C #3 Penstock	5.4	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	7.8			

### 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	21.3
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	7.8	R3	Boullioun to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.8	U3	Total MC Deliveries	7.8	V3	Zanja West Weir to CWC Canal	0.2
			T3	MC #1 Flow (Cooley Hat)	7.8				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									Y3	Crafton Reservoir Level (21.3)	19.0

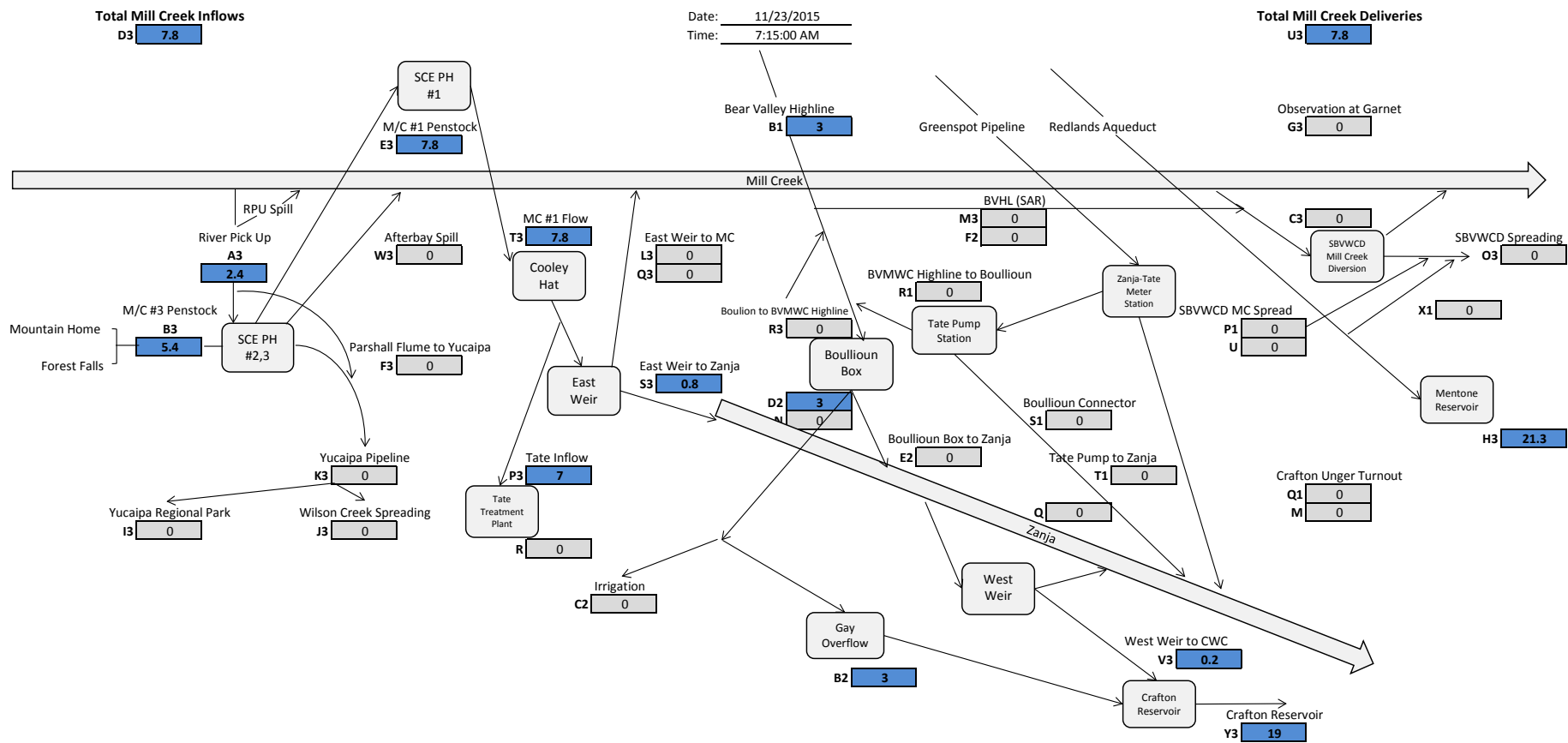
### SBVWCD MC Spreading

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	<b>SBVWCD MC Spreading</b>	<b>0.0</b>

### SBVWCD Recharge

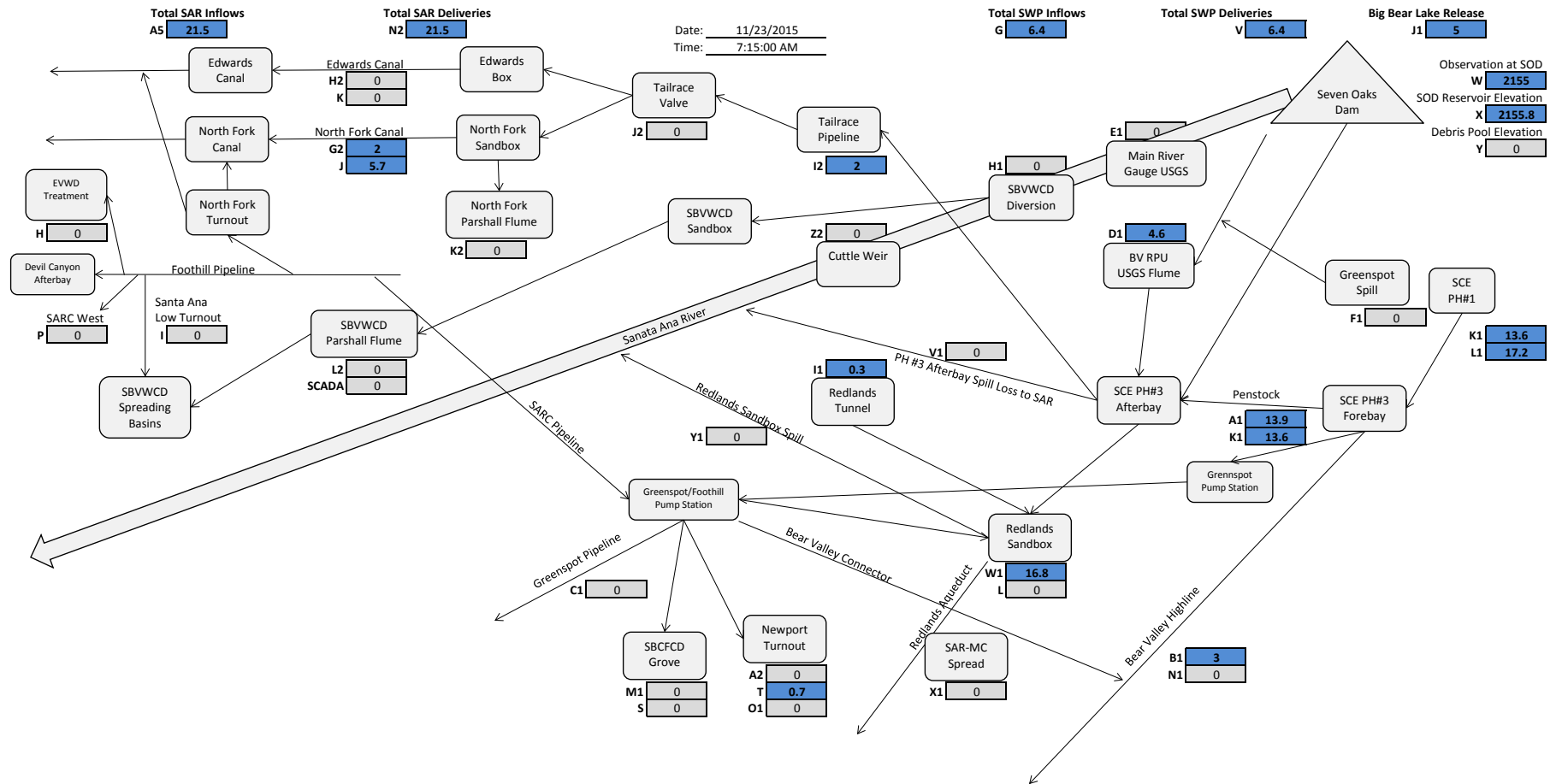
Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	0.0	I4	245.2	123,000	I4	2,493.3	123,000
M4	Santa Ana Rvr to Mill Creek	SAR-MC	N4	0.0	O4	0.0		O4	133.7	
B4	Santa Ana River	SWP	F4	0.0	J4	0.0		J4	62.0	
C4	Mill Creek	MC	G4	0.0	K4	44.2	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: 11/24/2015

Time: 7:15:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	21.5
<b>N2</b>	<b>Total SAR Deliveries</b>	21.5
A1	SAR PH#3 Penstock (calc)	14.0
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	16.5

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	6.7
<b>V</b>	<b>Total SWP Deliveries</b>	6.7
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	1.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	7.9
<b>U3</b>	<b>Total MC Deliveries</b>	7.9
K3	Yucaipa Pipeline	0.0
O3	SBVMWD Spreading	0.0
T3	MC #1 Flow (Cooley Hat)	7.9

Reservoir Levels	Feet
Observation at SOD	2155
Crafton Reservoir Level (21.3)	18
Mentone Reservoir Level	22

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	245	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 11/24/2015  
Time: 7:15:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	6.7	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	5.7
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	<b>Total SWP Inflows</b>	<b>6.7</b>	N	BVMWC Boullion 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	<b>Total SWP Deliveries</b>	<b>6.7</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)		
G2	Northfork Canal Weir	2.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
V1	PH#3 Afterbay SpillLoss to SAR	0.0
W1	Redlands Aqueduct / Sandbox	16.8
Y1	Redlands Sandbox Spill	0.0
		minus
D1	BVMWC River PU (USGS)	4.5
I1	Redlands Tunnel	0.3
A1	SAR PH #3 Penstock (calc)	14.0
K1	PH3# Penstock (SCADA)	14.0

BVMWC Highline		
A2	Newport	0.0
D2	Boullioun Box Weir	3.0
E2	Boullioun Box to Zanja	0.0
F2	SBVWCD Mill Creek Spreading	0.0
B1	BVMWC Highline	3.0
Other		
J1	Big Bear Lake Release	5.0
L1	SCE SAR AVM (SCADA)	17.3
X1	SAR-MC Spread (Red. Aqueduct)	0.0

SOD Release Subtotal		
D1	BVMWC River PU (USGS)	4.5
E1	Main River Gage (USGS)	0.0
		minus
F1	Greenspot Spill	0.0
Z1	SOD Release Subtotal	4.5
Seven Oaks Dam		
w	Observation at SOD	2155.0
x	SOD Reservoir Elevation (scada)	2155.6
y	Debris Pool Elevation	0.0

Total SAR Inflows		
A1	SAR PH #3 Penstock (calc)	14.0
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
D1	BVMWC River PU (USGS)	4.5
E1	Main River Gage (USGS)	0.0
D1a	BV Pick-Up gated	<input type="checkbox"/>
A5	Total SAR Inflows	21.5

### 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	2.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	2.0

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	3.0
	minus	
B2	Gay Overflow	2.0
C2	Irrigation	1.0

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	16.8
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.0
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	21.5

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.5	E3	M/C #1 Penstock Flow	7.9
B3	M/C #3 Penstock	5.4	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	7.9			

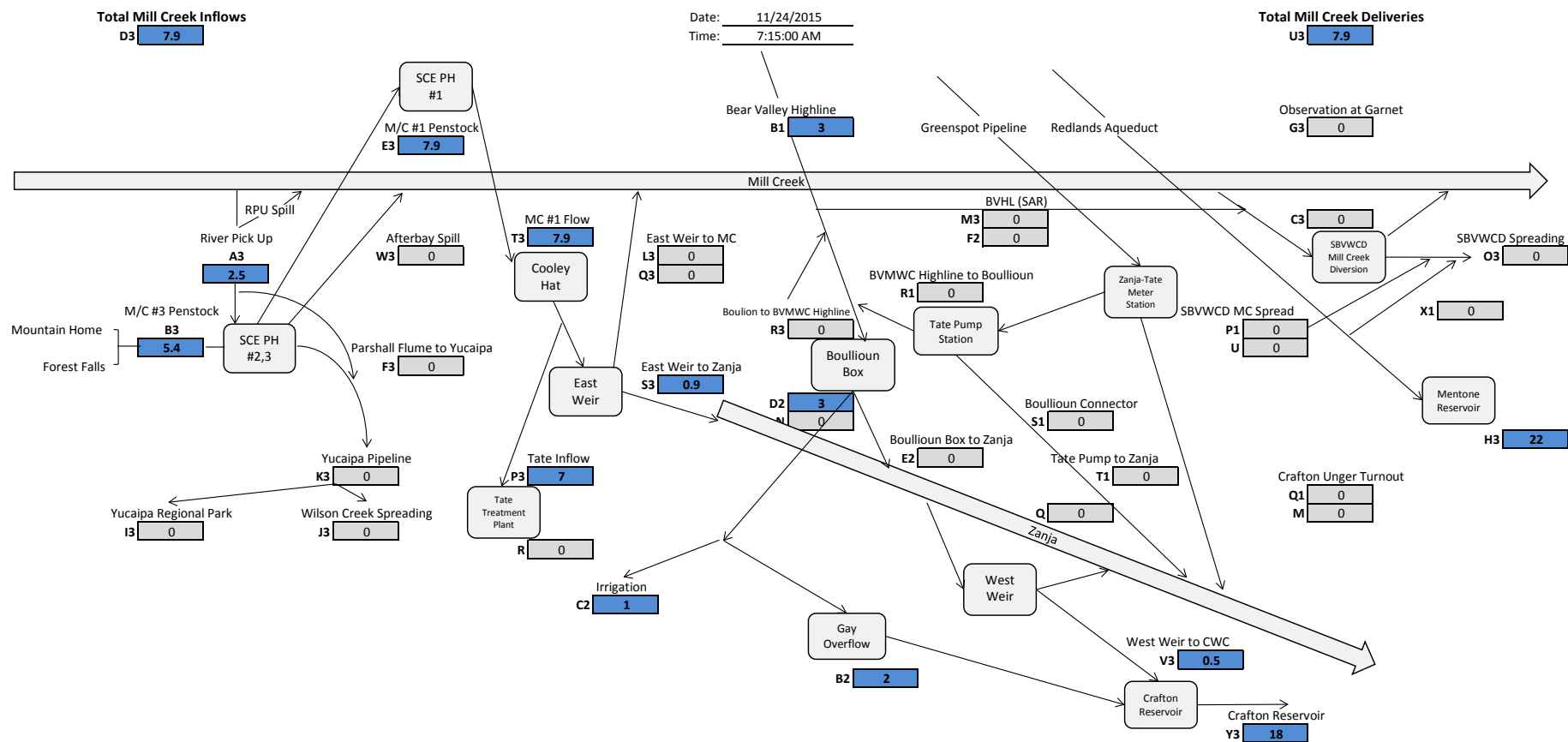
### Mill Creek Deliveries

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	22.0
J3	Wilson Creek Spreading	0.0	Q3	East Weir to Mill Creek	0.0	T3	Mill Creek #1 Flow (Cooley Hat)	7.9	R3	Boullion to BVMWC Highline	0.0
K3	Yucaipa Pipeline	0.0	S3	East Weir to Zanja	0.9	U3	Total MC Deliveries	7.9	V3	Zanja West Weir to CWC Canal	0.5
			T3	MC #1 Flow (Cooley Hat)	7.9				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									Y3	Crafton Reservoir Level (21.3)	18.0

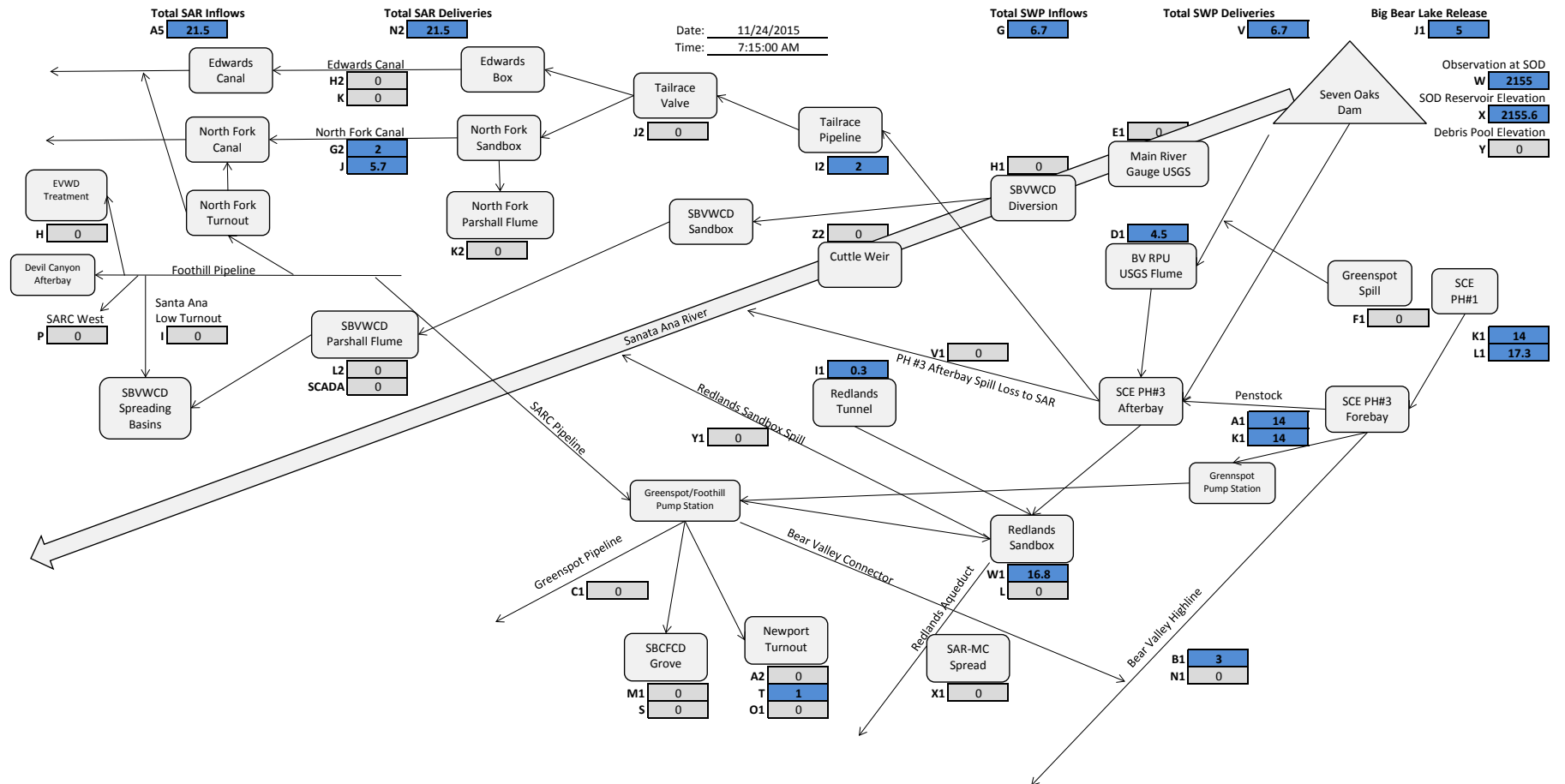
### SBVWCD Recharge

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	245.2	123,000	I4	2,493.3	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: 11/25/2015

Time: 7:45:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	23.6
<b>N2</b>	<b>Total SAR Deliveries</b>	23.6
A1	SAR PH#3 Penstock (calc)	16.0
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.0
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	18.6

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	6.8
<b>V</b>	<b>Total SWP Deliveries</b>	6.8
J	Northfork Canal	5.8
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	1.0

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	8.2
<b>U3</b>	<b>Total MC Deliveries</b>	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	2155
Crafton Reservoir Level (21.3)	17
Mentone Reservoir Level	21.5

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	245	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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 11/25/2015  
Time: 7:45:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	6.8	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	5.8
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	<b>Total SWP Inflows</b>	<b>6.8</b>	N	BVMWC Boulliou 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	<b>Total SWP Deliveries</b>	<b>6.8</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows		
G2	Northfork Canal Weir	2.0	A2	Newport	0.0	D1	BVMWC River PU (USGS)	4.6	A1	SAR PH #3 Penstock (calc)	16.0
H2	Edwards Canal	0.0	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)	4.6
V1	PH#3 Afterbay SpillLoss to SAR	0.0	B1	BVMWC Highline 3.0		Z1	SOD Release Subtotal 4.6		E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	18.9							D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0	Other			Seven Oaks Dam			A5	Total SAR Inflows 23.6	
minus			J1	Big Bear Lake Release	5.0	w	Observation at SOD	2155.0			
D1	BVMWC River PU (USGS)	4.6	L1	SCE SAR AVM (SCADA)	21.9	x	SOD Reservoir Elevation (scada)	2155.4			
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) 16.0										
K1	PH3# Penstock (SCADA) 16.8										

### 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	2.0
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	2.0

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	3.0
	minus	
B2	Gay Overflow	2.0
C2	Irrigation	1.0

Deliveries		
V1	SAR PH #3 Afterbay Spill	0.0
W1	Redlands Aqueduct / Sandbox	18.9
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	3.0
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.0
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	23.6

### Mill Creek Inflows

Total MC Inflows			Other		
A3	RPU Flow	2.3	E3	M/C #1 Penstock Flow	8.2
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	8.2			

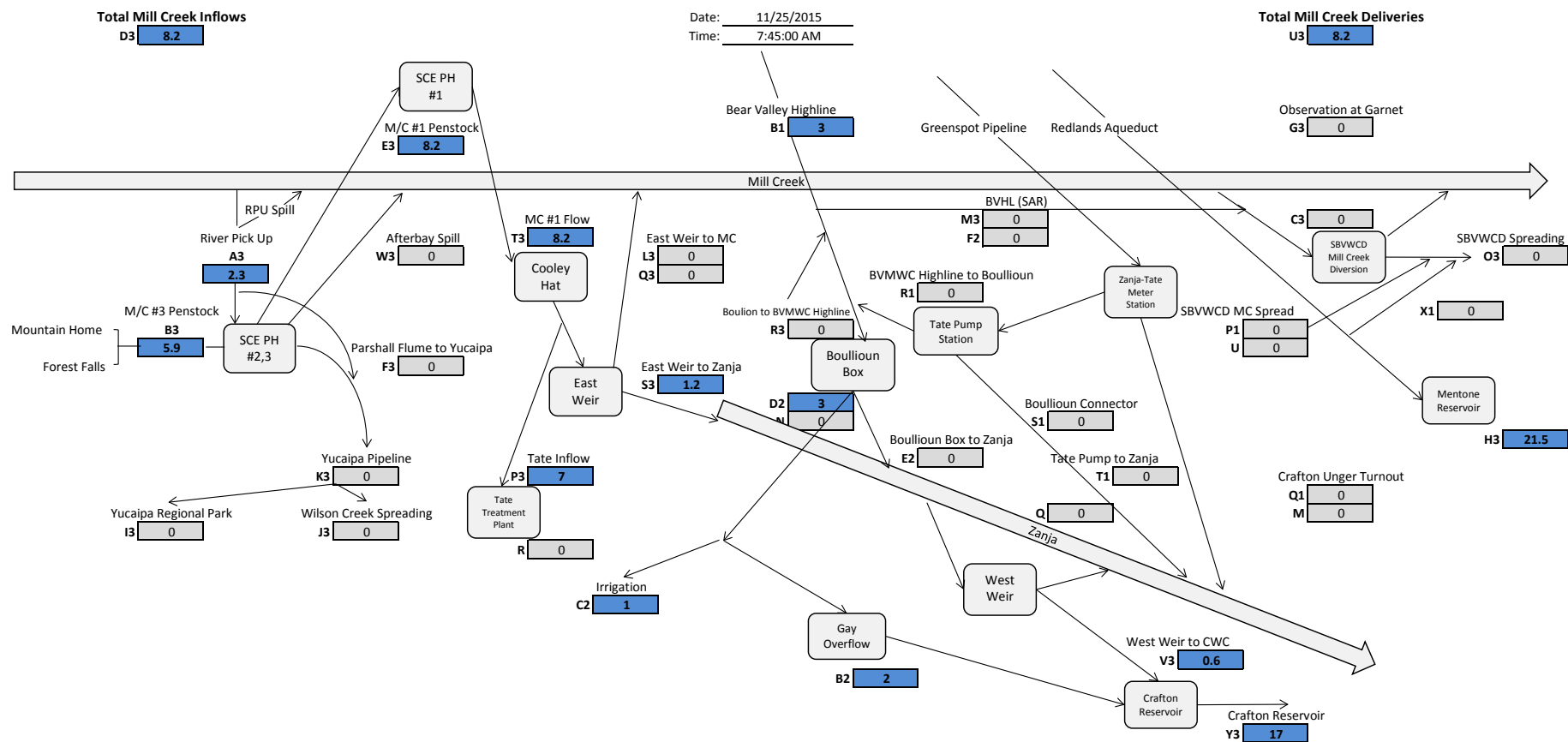
### Mill Creek Deliveries

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	21.5
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	1.2	U3	Total MC Deliveries	8.2	V3	Zanja West Weir to CWC Canal	0.6
			T3	MC #1 Flow (Cooley Hat)	8.2				W3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									Y3	Crafton Reservoir Level (21.3)	17.0

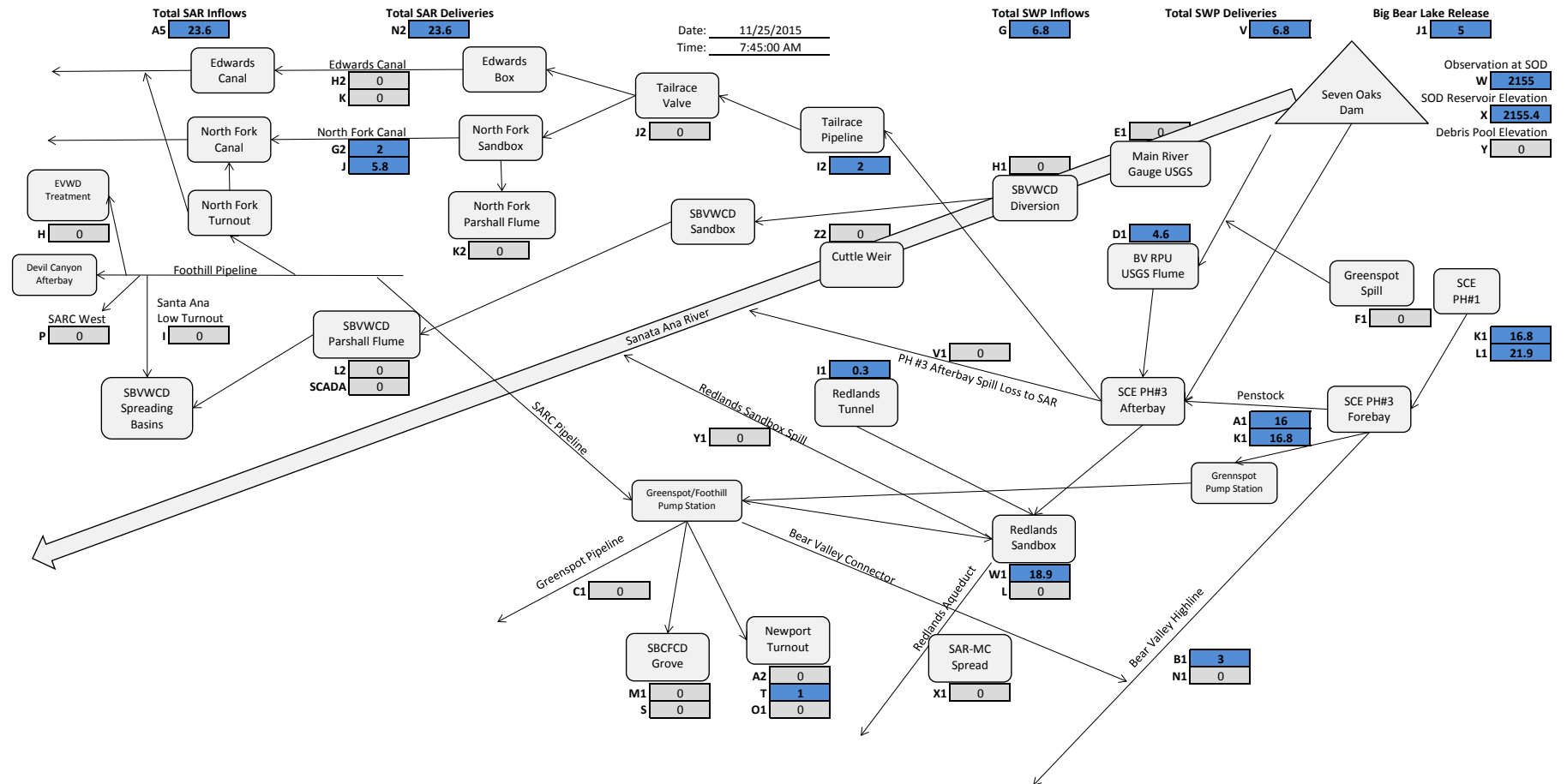
### SBVWCD Recharge

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	245.2	123,000	I4	2,493.3	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: 11/30/2015

Time: 7:15:00 AM

Santa Ana River		Flow Rate (cfs)
<b>A5</b>	<b>Total SAR Inflows</b>	23.3
<b>N2</b>	<b>Total SAR Deliveries</b>	23.3
A1	SAR PH#3 Penstock (calc)	15.7
B1	BVMWC Highline	2.4
C1	Greenspot Pipeline	0.0
L2	SBVMWD Parshall Flume	0.0
G2	North Fork Canal Weir	2.1
H2	Edwards Canal	0.0
W1	Redlands Aqueduct (calc)	16.3

State Water Project		Flow Rate (cfs)
<b>G</b>	<b>Total SWP Inflows</b>	6.3
<b>V</b>	<b>Total SWP Deliveries</b>	6.3
J	Northfork Canal	5.7
L	Redlands Aqueduct	0.0
M	Crafton Unger Lane	0.0
T	Newport to BVMWC	0.6

Mill Creek		Flow Rate (cfs)
<b>D3</b>	<b>Total MC Inflows</b>	8.8
<b>U3</b>	<b>Total MC Deliveries</b>	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	2154.1
Crafton Reservoir Level (21.3)	18
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. As of June 1st, all East Valley and Redlands SWP water, as well as Newport and Crafton Unger Lane, is In Lieu water, and not purchased. The value for the BVMWC River Pick-up had previously always been the USGS meter minus the Greenspot spill. It has been corrected so that the value listed on the DFR is now the reading at that location. A calendar year total for recharge has been added in addition to the water year total.

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 11/30/2015  
Time: 7:15:00 AM

### State Water Project

Inflows			Deliveries		
A	BBMWD In-lieu	6.3	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	5.7
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	<b>Total SWP Inflows</b>	<b>6.3</b>	N	BVMWC Boulliou 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	<b>Total SWP Deliveries</b>	<b>6.3</b>

### Santa Ana River Inflows

SAR PH #3 Penstock (calc)			BVMWC Highline			SOD Release Subtotal			Total SAR Inflows			
G2	Northfork Canal Weir	2.1	A2	Newport	0.0	D1	BVMWC River PU (USGS)		5.2	A1	SAR PH #3 Penstock (calc)	15.7
H2	Edwards Canal	0.0	D2	Boullioun Box Weir	2.4	E1	Main River Gage (USGS)		0.0	B1	BVMWC Highline	2.4
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 SpillLoss to SAR	2.5	B1	BVMWC Highline		Z1	SOD Release Subtotal		5.2	E1	Main River Gage (USGS)	0.0
W1	Redlands Aqueduct / Sandbox	16.6								D1a	BV Pick-Up gated	☐
Y1	Redlands Sandbox Spill	0.0								A5	Total SAR Inflows	23.3
minus			Other			Seven Oaks Dam						
D1	BVMWC River PU (USGS)	5.2	J1	Big Bear Lake Release	5.0	w	Observation at SOD		2154.1			
I1	Redlands Tunnel	0.3	L1	SCE SAR AVM (SCADA)	18.5	x	SOD Reservoir Elevation (scada)		2154.5			
A1	SAR PH #3 Penstock (calc)		15.7	X1	SAR-MC Spread (Red. Aqueduct)	0.0	y	Debris Pool Elevation		0.0		
K1	PH3# Penstock (SCADA)		14.9									

### 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	2.1
H2	Edwards Canal	0.0
J2	Tailrace Valve to Parshall Flume	0.0
K2	Northfork Parshall Flume	0.0
I2	Tailrace Pipeline	2.1

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	2.4
		minus
B2	Gay Overflow	3.8
C2	Irrigation	0.0

Deliveries		
V1	SAR PH #3 Afterbay Spill	2.5
W1	Redlands Aqueduct / Sandbox	16.6
Y1	Redlands Sandbox Spill	0.0
Z2	Cuttle Weir To River	0.0
B1	BVMWC Highline	2.4
C1	Greenspot Pipeline	0.0
I2	Tailrace Pipeline	2.1
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	23.3

### 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		
i3	Yucaipa Regional Park	0.0	p3	Tate Inflow	7.1	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)	8.8	r3	Boullioum to BVMWC Highline	0.0
k3	Yucaipa Pipeline	0.0	s3	East Weir to Zanja	1.7	u3	Total MC Deliveries	8.8	v3	Zanja West Weir to CWC Canal	0.2
			t3	MC #1 Flow (Cooley Hat)	8.8				w3	Mill Creek PH #2,3 Afterbay Spill	0.0
SBVWCD MC Spreading									y3	Crafton Reservoir Level (21.3)	18.0

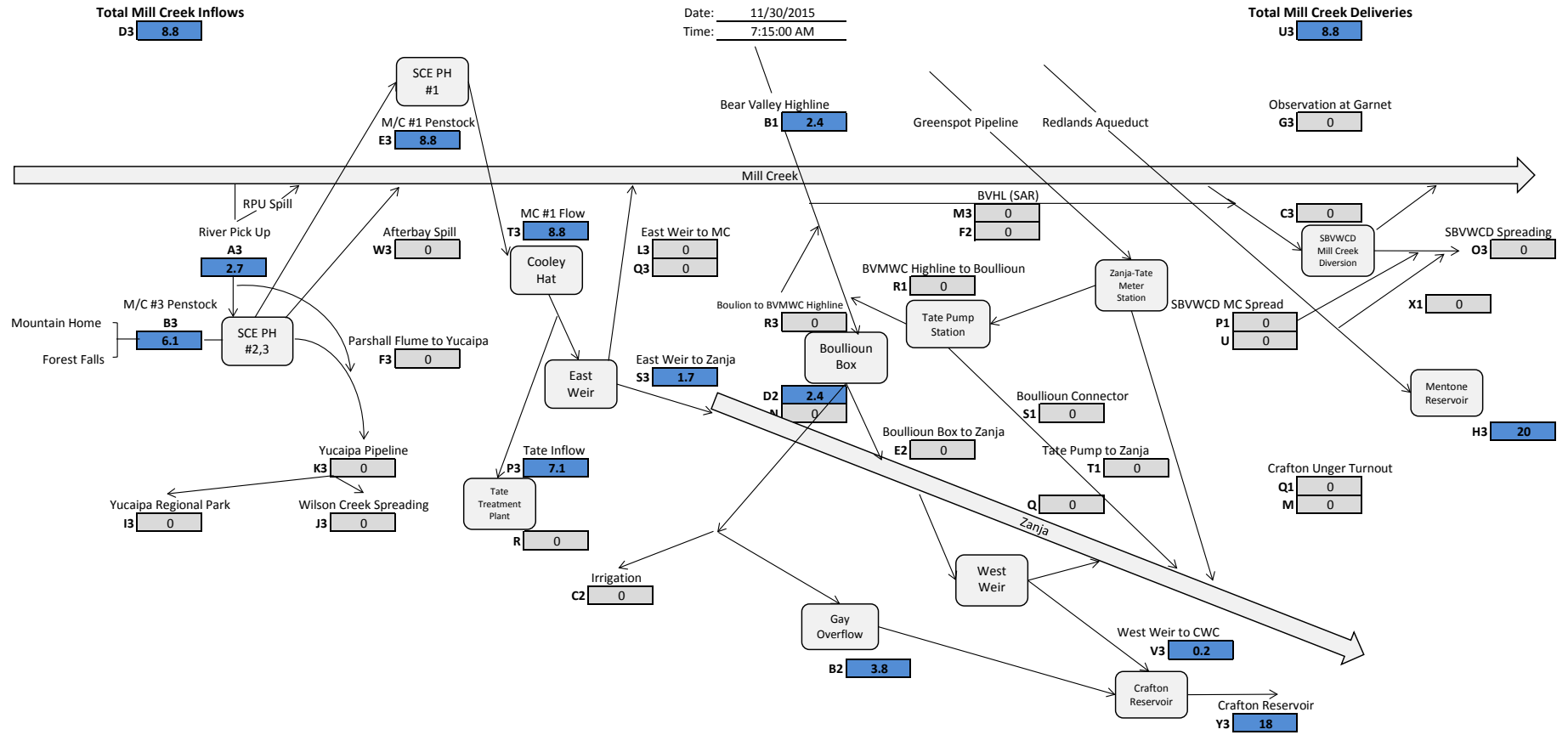
SBVWCD MC Spreading		
C3	SBVWCD Mill Creek Diversion	0.0
L3	East Weir (MC)	0.0
M3	BVHL (SAR)	0.0
X1	SAR-MC Spread (Red. Aqueduct)	0.0
O3	SBVWCD MC Spreading	0.0

### SBVWCD Recharge

Location		Type	Previous Day (AF)		WY To Date (AF)		Target	Calendar Year To Date (AF)		Target
A4	Santa Ana River	SAR	E4	11.1	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

