

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report

Date: 7/3/2023  
Time: 7:00:00 AM

### State Water Project

| Inflows |                                |            | Deliveries |                       |     |   |                      |     |   |                             |            |
|---------|--------------------------------|------------|------------|-----------------------|-----|---|----------------------|-----|---|-----------------------------|------------|
| A       | BBMWD In-lieu                  | 2.2        | H          | EVWD City Creek       | 0.0 | M | Crafton Unger Lane   | 0.0 | S | SBCFCD Grove                | 0.0        |
| B       | Muni test at Greenspot Station | 0.0        | I          | Santa Ana Low Turnout | 0.0 | N | BVMWC Boulliou Box   | 2.2 | T | Newport for BVMWC           | 0.0        |
| C       | Exchange Water                 | 0.0        | J          | Northfork Canal       | 3.0 | P | SARC West            | 0.0 | U | M/C spreading at Zanja Tate | 0.0        |
| D       | Purchased Water                | 3.0        | K          | Edwards Canal         | 0.0 | Q | Zanja                | 0.0 | W | Tres Lagos                  | 0.0        |
| E       | Redlands Aqueduct Leakage      | 0.0        | L          | Redlands Aqueduct     | 0.0 | R | Tate Treatment Plant | 0.0 | V | <b>Total SWP Deliveries</b> | <b>5.2</b> |
| F       | Recharge Project               | 0.0        |            |                       |     |   |                      |     |   |                             |            |
| G       | <b>Total SWP Inflows</b>       | <b>5.2</b> |            |                       |     |   |                      |     |   |                             |            |

### Santa Ana River Inflows

| SAR PH #3 Penstock (calc) |                                  |            | BVMWC Highline |                               |            | SOD Release Subtotal |                                 |              | Total SAR Inflows   |                           |              |
|---------------------------|----------------------------------|------------|----------------|-------------------------------|------------|----------------------|---------------------------------|--------------|---------------------|---------------------------|--------------|
| G2                        | Northfork Canal Weir             | 5.3        | A2             | Newport                       | 0.0        | D1                   | BVMWC River PU (USGS)           | 36.9         | A1                  | SAR PH #3 Penstock (calc) | 0.0          |
| H2                        | Edwards Canal                    | 0.0        | D2             | Boulliou Box Weir             | 3.2        | E1                   | Main River Gage (USGS)          | 74.2         | B1                  | BVMWC Highline            | 3.2          |
| 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         | 4.8        | F2             | SBVWCD Mill Creek Spreading   | 0.0        | F1                   | Greenspot Spill                 | 0.0          | D1                  | BVMWC River PU (USGS)     | 36.9         |
| V1                        | PH#3 Afterbay SpillLoss to SAR   | 0.0        | B1             | <b>BVMWC Highline</b>         | <b>3.2</b> | Z1                   | <b>SOD Release Subtotal</b>     | <b>111.1</b> | E1                  | Main River Gage (USGS)    | 74.2         |
| W1                        | Redlands Aqueduct / Sandbox      | 28.0       |                |                               |            |                      |                                 |              | D1a                 | BV Pick-Up gated          | 0.0          |
| Y1                        | Redlands Sandbox Spill           | 0.0        |                |                               |            |                      |                                 |              | A5                  | <b>Total SAR Inflows</b>  | <b>114.3</b> |
| minus                     |                                  |            | Other          |                               |            | w                    |                                 |              | Edison Generation   |                           |              |
| D1                        | BVMWC River PU (USGS)            | 36.9       | J1             | Big Bear Lake Release         | 0.6        | w                    | Observation at SOD              | 2175.0       |                     |                           |              |
| I1                        | Redlands Tunnel                  | 1.2        | L1             | SCE SAR AVM (SCADA)           | 2.5        | x                    | SOD Reservoir Elevation (scada) | 2174.4       | SAR PH#1 Generating |                           |              |
| A1                        | <b>SAR PH #3 Penstock (calc)</b> | <b>0.0</b> | X1             | SAR-MC Spread (Red. Aqueduct) | 0.0        | y                    | Debris Pool Elevation           | N/A          | SAR PH#3 Generating |                           |              |
| K1                        | <b>PH3# Penstock (SCADA)</b>     | <b>0.0</b> |                |                               |            |                      |                                 |              |                     |                           |              |

### Santa Ana River Deliveries

| Greenspot Pipeline |                             |            | Tailrace Pipeline |                                  |             | SBVWCD Parshall Flume To Basins |                                  |             | Deliveries |                                  |              |
|--------------------|-----------------------------|------------|-------------------|----------------------------------|-------------|---------------------------------|----------------------------------|-------------|------------|----------------------------------|--------------|
| M1                 | Redlands sand box           | 0.0        | G2                | Northfork Canal Weir             | 5.3         | J2                              | Tailrace Valve to Parshall Flume | 0.0         | V1         | SAR PH #3 Afterbay Spill         | 0.0          |
| N1                 | BVMWC Highline              | 0.0        | H2                | Edwards Canal                    | 0.0         | K2                              | Northfork Parshall Flume         | 4.8         | W1         | Redlands Aqueduct / Sandbox      | 28.0         |
| O1                 | Newport for BVMWC           | 0.0        | J2                | Tailrace Valve to Parshall Flume | 0.0         | H1                              | SBVWCD Diversion                 | 74.2        | Y1         | Redlands Sandbox Spill           | 0.0          |
| P1                 | SBVWCD Mill Creek Spreading | 0.0        | K2                | Northfork Parshall Flume         | 4.8         | Sedimentation Basin Recharge    |                                  |             | Z2         | Cuttle Weir To River             | 0.0          |
| Q1                 | Crafton WC Unger Lane       | 0.0        | I2                | <b>Tailrace Pipeline</b>         | <b>10.1</b> | L2                              | <b>SBVWCD Parshall Flume</b>     | <b>79.0</b> | B1         | BVMWC Highline                   | 3.2          |
| R1                 | BVMWC Highline to Boulliou  | 0.0        |                   |                                  |             | Parshall Flume (SCADA)          |                                  |             | C1         | Greenspot Pipeline               | 0.0          |
| S1                 | Tres Lagos                  | 0.0        | Irrigation        |                                  |             | 0.0                             |                                  |             | I2         | Tailrace Pipeline                | 10.1         |
| T1                 | Tate Pump Station to Zanja  | 0.0        | D2                | Boulliou Box Weir                | 3.2         | minus                           |                                  |             | L2         | SBVWCD Parshall Flume            | 79.0         |
| C1                 | <b>Greenspot Pipeline</b>   | <b>0.0</b> | R1                | BVMWC Highline to Boulliou       | 0.0         | B2                              |                                  |             | L2         | Sedimentation Recharge           | 0.0          |
|                    |                             |            | N                 | BVMWC Boulliou Box               | 2.2         | C2                              |                                  |             | minus      |                                  |              |
|                    |                             |            |                   |                                  |             | Irrigation                      |                                  |             | J2         | Tailrace Valve to Parshall Flume | 0.0          |
|                    |                             |            |                   |                                  |             | 2.9                             |                                  |             | K2         | Northfork Parshall Flume         | 4.8          |
|                    |                             |            |                   |                                  |             | 0.0                             |                                  |             | I1         | Redlands Tunnel                  | 1.2          |
|                    |                             |            |                   |                                  |             | 0.0                             |                                  |             | N2         | <b>Total SAR Deliveries</b>      | <b>114.3</b> |

### Mill Creek Inflows

| Total MC Inflows |                             |             | Other |                                  |      |
|------------------|-----------------------------|-------------|-------|----------------------------------|------|
| A3               | RPU Flow                    | 0.0         | E3    | M/C #1 Penstock Flow             | 13.9 |
| B3               | M/C #3 Penstock             | 14.3        | F3    | Stream Parshall Flume to Yucaipa | 0.0  |
| C3               | SBVWCD Mill Creek Diversion | 38.0        | G3    | Observation at Garnet            | 0.1  |
| D3               | <b>Total MC Inflows</b>     | <b>52.3</b> |       |                                  |      |

### Mill Creek Deliveries

| Yucaipa Pipeline    |                               |             | MC #1 Flow (Cooley Hat) |                                |             | Total MC Deliveries |                                 |             | Other |                                   |      |
|---------------------|-------------------------------|-------------|-------------------------|--------------------------------|-------------|---------------------|---------------------------------|-------------|-------|-----------------------------------|------|
| H3                  | Yucaipa Regional Park         | 0.0         | P3                      | Tate Inflow                    | 7.9         | C3                  | SBVWCD Mill Creek Diversion     | 38.0        | H3    | Mentone Reservoir Level           | 17.1 |
| J3                  | Wilson Creek Spreading        | 0.0         | Q3                      | East Weir to Mill Creek        | 0.0         | T3                  | Mill Creek #1 Flow (Cooley Hat) | 14.3        | R3    | Boulliou to BVMWC Highline        | 0.0  |
| K3                  | <b>Yucaipa Pipeline</b>       | <b>0.0</b>  | S3                      | East Weir to Zanja             | 6.4         | U3                  | <b>Total MC Deliveries</b>      | <b>52.3</b> | V3    | Zanja West Weir to CWC Canal      | 2.8  |
|                     |                               |             | T3                      | <b>MC #1 Flow (Cooley Hat)</b> | <b>14.3</b> |                     |                                 |             | W3    | Mill Creek PH #2,3 Afterbay Spill | 0.0  |
|                     |                               |             | N3                      | <b>Cooley Hat (SCADA)</b>      | <b>15.0</b> |                     |                                 |             | Y3    | Crafton Reservoir Level (21.3)    | 15.7 |
|                     |                               |             |                         |                                |             |                     |                                 |             |       |                                   |      |
| SBVWCD MC Spreading |                               |             |                         |                                |             |                     |                                 |             |       |                                   |      |
| C3                  | SBVWCD Mill Creek Diversion   | 38.0        |                         |                                |             |                     |                                 |             |       |                                   |      |
| 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>38.0</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                            | 317.4 | I4                             | 39,976.4 | 176,000 | I4                                | 39,488.9     | 176,000 |
| M4                              | Santa Ana Rvr to Mill Creek | SAR-MC | N4                            | 19.6  | O4                             | 1,477.3  |         | O4                                | 1,293.8      |         |
| B4                              | Santa Ana River             | SWP    | F4                            | 0.0   | J4                             | 234.3    |         | J4                                | 234.3        |         |
| C4                              | Mill Creek                  | MC     | G4                            | 150.7 | K4                             | 15,013.5 | 106,000 | K4                                | 14,388.7     | 106,000 |
| D4                              | Mill Creek                  | SWP    | H4                            | 0.0   | L4                             | 962.6    |         | L4                                | <b>962.6</b> |         |
|                                 | Plunge Creek                | PLC    |                               | 4.0   |                                | 2,603.4  |         |                                   | 2,481.9      |         |
| SAR Passing Cuttle Weir (cfs)   | 0                           |        | Share of Lost SAR Flow        | 0     | Estimate SAR flow (cfs)        | 0        |         | Estimate SAR Recharge (AF)        | 0            |         |
| Mill Creek Passing Garnet (cfs) | 0                           |        | Share of Lost Mill Creek Flow | 0     | Estimate Mill Creek flow (cfs) | 0        |         | Estimate Mill Creek Recharge (AF) | 0            |         |
| Flow in the River Above Alabama | 0                           |        | Flowing Beyond Alabama        | 0     | Total River Flow (cfs)         | 0        |         | Total River Recharge (AF)         | 0            |         |