

# Santa Ana River - Mill Creek Cooperative Water Project

## Daily Flow Report Summary

Date: 8/16/2023  
 Time: 6:40:00 AM

| Santa Ana River |                             | Flow Rate (cfs) |
|-----------------|-----------------------------|-----------------|
| <b>A5</b>       | <b>Total SAR Inflows</b>    | 66.3            |
| <b>N2</b>       | <b>Total SAR Deliveries</b> | 66.3            |
| A1              | SAR PH#3 Penstock (calc)    | 30.8            |
| B1              | BVMWC Highline              | 7.0             |
| C1              | Greenspot Pipeline          | 0.0             |
| L2              | SBVWCD Parshall Flume       | 32.0            |
| G2              | North Fork Canal Weir       | 0.0             |
| H2              | Edwards Canal               | 0.0             |
| W1              | Redlands Aqueduct (calc)    | 27.3            |
|                 | Other                       | 0.0             |

| Mill Creek |                            | Flow Rate (cfs) |
|------------|----------------------------|-----------------|
| <b>D3</b>  | <b>Total MC Inflows</b>    | 22.4            |
| <b>U3</b>  | <b>Total MC Deliveries</b> | 22.4            |
| K3         | Yucaipa Pipeline           | 0.0             |
| O3         | SBVWCD Spreading           | 0.0             |
| T3         | MC #1 Flow (Cooley Hat)    | 22.4            |

| State Water Project |                             | Flow Rate (cfs) |
|---------------------|-----------------------------|-----------------|
| <b>G</b>            | <b>Total SWP Inflows</b>    | 10.1            |
| <b>V</b>            | <b>Total SWP Deliveries</b> | 10.1            |
| J                   | Northfork Canal             | 0.0             |
| L                   | Redlands Aqueduct           | 0.0             |
| M                   | Crafton Unger Lane          | 0.0             |
| T                   | Newport to BVMWC            | 0.0             |

| Reservoir Levels               | Feet   |
|--------------------------------|--------|
| Observation at SOD             | 2160.1 |
| Crafton Reservoir Level (21.3) | 18.3   |
| Mentone Reservoir Level        | 17.2   |

| River Recharge                      | AF |
|-------------------------------------|----|
| Estimate SAR Recharge (AF)          | 0  |
| Estimate Mill Creek Recharge (AF)   | 36 |
| Estimated Total River Recharge (AF) | 36 |

| Location                      | Type   | WY to Date (AF) | Target  |
|-------------------------------|--------|-----------------|---------|
| Santa Ana River               | SAR    | 43,981          | 176,000 |
| Santa Ana River to Mill Creek | SAR-MC | 1,622           | 0       |
| Santa Ana River to Mill Creek | SWP    | 263             | 0       |
| Santa Ana River               | SWP    | 234             | 0       |
| Mill Creek                    | MC     | 16,631          | 106,000 |
| Mill Creek                    | SWP    | 1,332           | 0       |
| Plunge Creek                  | PLC    | 2,618           | 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. \*Mill Creek off line due to construction starting 8/8/2023 .

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## Daily Flow Report

Date: 8/16/2023  
Time: 6:40:00 AM

### State Water Project

| Inflows |                                |             | Deliveries |                       |      |   |                      |     |   |                             |             |
|---------|--------------------------------|-------------|------------|-----------------------|------|---|----------------------|-----|---|-----------------------------|-------------|
| A       | BBMWD In-lieu                  | 0.0         | H          | EVWD City Creek       | 10.1 | 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 Boullion Box   | 0.0 | T | Newport for BVMWC           | 0.0         |
| C       | Exchange Water                 | 0.0         | J          | Northfork Canal       | 0.0  | P | SARC West            | 0.0 | U | M/C spreading at Zanja Tate | 0.0         |
| D       | Purchased Water                | 10.1        | 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>10.1</b> |
| F       | Recharge Project               | 0.0         |            |                       |      |   |                      |     |   |                             |             |
| G       | <b>Total SWP Inflows</b>       | <b>10.1</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)           | 7.7         | A1                       | SAR PH #3 Penstock (calc) | 30.8        |
| H2                        | Edwards Canal                    | 0.0            | D2           | Boullion Box Weir             | 7.0        | E1                | Main River Gage (USGS)          | 20.8        | B1                       | BVMWC Highline            | 7.0         |
| J2                        | Tailrace Valve to Parshall Flume | 0.0            | E2           | Boullion Box to Zanja         | 0.0        | <b>minus</b>      |                                 | C1          | Greenspot Pipeline       | 0.0                       |             |
| K2                        | Northfork Parshall Flume         | 11.2           | F2           | SBVWCD Mill Creek Spreading   | 0.0        | F1                | Greenspot Spill                 | 2.9         | D1                       | BVMWC River PU (USGS)     | 7.7         |
| V1                        | PH#3 Afterbay Spill/Loss to SAR  | 0.0            | B1           | <b>BVMWC Highline</b>         | <b>7.0</b> | Z1                | <b>SOD Release Subtotal</b>     | <b>25.6</b> | E1                       | Main River Gage (USGS)    | 20.8        |
| W1                        | Redlands Aqueduct / Sandbox      | 24.6           | <b>Other</b> |                               |            |                   |                                 | D1a         | BV Pick-Up gated         | -                         |             |
| Y1                        | Redlands Sandbox Spill           | 3.4            | J1           | Big Bear Lake Release         | 0.6        | w                 | Observation at SOD              | 2160.1      | A5                       | <b>Total SAR Inflows</b>  | <b>66.3</b> |
| <b>Minus</b>              |                                  |                | L1           | SCE SAR AVM (SCADA)           | 37.2       | x                 | SOD Reservoir Elevation (scada) | 2160.4      | <b>Edison Generation</b> |                           |             |
| D1                        | BVMWC River PU (USGS)            | 7.7            | X1           | SAR-MC Spread (Red. Aqueduct) | 0.0        | y                 | Debris Pool Elevation           | N/A         | SAR PH#1 Generating      | !                         |             |
| I1                        | Redlands Tunnel                  | 0.7            |              |                               |            |                   |                                 |             | SAR PH#3 Generating      | ✓                         |             |
| A1                        | <b>SAR PH #3 Penstock (calc)</b> | <b>30.8</b>    |              |                               |            |                   |                                 |             |                          |                           |             |
| K1                        | <b>PH3# Penstock (SCADA)</b>     | <b>26.5</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             | 0.0         | J2           | Tailrace Valve to Parshall Flume | 0.0          | V1                   | SAR PH #3 Afterbay Spill         | 0.0         |
| N1                 | BVMWC Highline              | 0.0               | H2                | Edwards Canal                    | 0.0         | K2           | Northfork Parshall Flume         | 11.2         | W1                   | Redlands Aqueduct / Sandbox      | 24.6        |
| O1                 | Newport for BVMWC           | 0.0               | J2                | Tailrace Valve to Parshall Flume | 0.0         | H1           | SBVWCD Diversion                 | 20.8         | Y1                   | Redlands Sandbox Spill           | 3.4         |
| P1                 | SBVWCD Mill Creek Spreading | 0.0               | K2                | Northfork Parshall Flume         | 11.2        | <b>minus</b> |                                  | Z2           | Cuttle Weir To River | 0.0                              |             |
| Q1                 | Crafton WC Unger Lane       | 0.0               | I2                | <b>Tailrace Pipeline</b>         | <b>11.2</b> | L2           | Sedimentation Basin Recharge     | 0.0          | B1                   | BVMWC Highline                   | 7.0         |
| R1                 | BVMWC Highline to Boullion  | 0.0               | <b>Irrigation</b> |                                  |             |              |                                  | C1           | Greenspot Pipeline   | 0.0                              |             |
| S1                 | Tres Lagos                  | 0.0               | D2                | Boullion Box Weir                | 7.0         |              | <b>SBVWCD Parshall Flume</b>     | <b>32.0</b>  | I2                   | Tailrace Pipeline                | 11.2        |
| T1                 | Tate Pump Station to Zanja  | 0.0               | R1                | BVMWC Highline to Boullion       | 0.0         |              | <b>Parshall Flume (SCADA)</b>    | <b>15.5</b>  | L2                   | SBVWCD Parshall Flume            | 32.0        |
| C1                 | <b>Greenspot Pipeline</b>   | <b>0.0</b>        | N                 | BVMWC Boullion Box               | 0.0         |              |                                  |              | L2                   | Sedimentation Recharge           | 0.0         |
|                    |                             |                   | <b>minus</b>      |                                  |             |              |                                  | <b>minus</b> |                      |                                  |             |
|                    |                             |                   | B2                | Gay Overflow                     | 3.0         |              |                                  |              | J2                   | Tailrace Valve to Parshall Flume | 0.0         |
|                    |                             |                   | C2                | <b>Irrigation</b>                | <b>4.0</b>  |              |                                  |              | K2                   | Northfork Parshall Flume         | 11.2        |
|                    |                             |                   |                   |                                  |             |              |                                  |              | I1                   | Redlands Tunnel                  | 0.7         |
|                    |                             |                   |                   |                                  |             |              |                                  |              | N2                   | <b>Total SAR Deliveries</b>      | <b>66.3</b> |

### Mill Creek Inflows

| Total MC Inflows |                             | Other       |    |                                  |      |
|------------------|-----------------------------|-------------|----|----------------------------------|------|
| A3               | RPU Flow                    | 7.7         | E3 | M/C #1 Penstock Flow             | 22.4 |
| B3               | M/C #3 Penstock             | 14.7        | F3 | Stream Parshall Flume to Yucaipa | 0.0  |
| C3               | SBVWCD Mill Creek Diversion | 0.0         | G3 | Observation at Garnet            | 20.0 |
| D3               | <b>Total MC Inflows</b>     | <b>22.4</b> |    |                                  |      |

### Mill Creek Deliveries

| Yucaipa Pipeline           |                               | MC #1 Flow (Cooley Hat) |    | Total MC Deliveries            |             | Other |                                 |             |    |                                   |      |
|----------------------------|-------------------------------|-------------------------|----|--------------------------------|-------------|-------|---------------------------------|-------------|----|-----------------------------------|------|
| H3                         | Yucaipa Regional Park         | 0.0                     | P3 | Tate Inflow                    | 12.5        | 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        | 9.9         | T3    | Mill Creek #1 Flow (Cooley Hat) | 22.4        | R3 | Boullion to BVMWC Highline        | 0.0  |
| K3                         | <b>Yucaipa Pipeline</b>       | <b>0.0</b>              | S3 | East Weir to Zanja             | 0.0         | U3    | <b>Total MC Deliveries</b>      | <b>22.4</b> | V3 | Zanja West Weir to CWC Canal      | 0.0  |
|                            |                               |                         | T3 | <b>MC #1 Flow (Cooley Hat)</b> | <b>22.4</b> |       |                                 |             | W3 | Mill Creek PH #2,3 Afterbay Spill | 0.0  |
|                            |                               |                         | N3 | <b>Cooley Hat (SCADA)</b>      | <b>24.1</b> |       |                                 |             | Y3 | Crafton Reservoir Level (21.3)    | 18.3 |
| <b>SBVWCD MC Spreading</b> |                               |                         |    |                                |             |       |                                 |             |    |                                   |      |
| 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                            | 59.5 | I4                             | 43,980.6 | 176,000                           | I4                         | 43,493.1 | 176,000 |
| M4                              | Santa Ana Rvr to Mill Creek | SAR-MC | N4                            | 0.0  | O4                             | 1,621.9  |                                   | O4                         | 1,438.3  |         |
|                                 | Santa Ana Rvr to Mill Creek | SWP    |                               | 0.0  |                                | 263.4    |                                   |                            | 263.4    |         |
| B4                              | Santa Ana River             | SWP    | F4                            | 0.0  | J4                             | 234.3    |                                   | J4                         | 234.3    |         |
| C4                              | Mill Creek                  | MC     | G4                            | 0.0  | K4                             | 16,630.8 | 106,000                           | K4                         | 16,006.0 | 106,000 |
| D4                              | Mill Creek                  | SWP    | H4                            | 0.0  | L4                             | 1,331.9  |                                   | L4                         | 1,331.9  |         |
|                                 | Plunge Creek                | PLC    |                               | 0.0  |                                | 2,618.2  |                                   |                            | 2,496.7  |         |
| 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) | 20                          |        | Share of Lost Mill Creek Flow | 3    | Estimate Mill Creek flow (cfs) | 18       | Estimate Mill Creek Recharge (AF) | 36                         |          |         |
| Flow in the River Above Alabama | 20                          |        | Flowing Beyond Alabama        | 2.5  | Total River Flow (cfs)         | 18       | Total River Recharge (AF)         | 36                         |          |         |

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



