

2023/24 Annual Water Supply and Demand Assessment

Background

Sacramento Suburban Water District (District) is a special district formed in 2002, as the result of a consolidation between Northridge Water District and Arcade Water District under the State of California’s County Water District Law. Located in the eastern suburbs of Sacramento, the District serves 194,444 customers through 46,722 service connections. The District has a long history of effective proactive water resource management by securing a diverse and sustainable water supply portfolio.

The District’s primary water supply is groundwater. The Sacramento Groundwater Authority manages the groundwater basin and has established sustainable pumping targets for each of the groundwater agencies in the Sacramento Region. To ensure effective resource management, the District has adopted a conjunctive use strategy to prioritize the use of surface water and bank its groundwater during wet years. The District has surface water agreements with the United States Bureau of Reclamation, Placer County Water Agency, San Juan Water District, and the City of Sacramento for various amounts of surface water when weather conditions permit.

The following report outlines the District’s Annual Water Supply and Demand Assessment (AWSDA) inputs in accordance with California Water Code Section 10632.1 for the reporting period of July 1, 2023, through June 30, 2024.

Report Table 1: Information

The District provided water demand and water supply amounts in acre feet (AF). Staff has identified March 1st through February 28th/29th, as the supplier’s annual assessment planning cycle as the District’s access to surface water is typically determined by March 1st of each year. See Figure 1.

Report Table 2: Projected Unconstrained Water Demand

In accordance with the AWSDA Guidance document provided by DWR, “*The main purpose of Table 2 is to calculate next year’s estimated [unconstrained] demand...*”. The District’s “next year’s” unconstrained water demand by customer class is estimated using Section 4, Table 4-5 of its 2020 Urban Water Management Plan (UWMP). Section 4, Table 4-5 projects an estimated unconstrained demand of 32,185 AF in 2025. The 2025 estimated demand is used as the projected unconstrained demand for report Table 2. SSWD is not projecting any demand impacts from water transfers for the 2023-2024 assessment period. See Figure 2.

Report Table 3: Projected Supplies

In June 2010, the Sacramento Groundwater Authority developed a water accounting framework for the District which established an annual sustainable long-term average pumping estimate of 35,035 AF. The District may pump more than this amount in dry years and less than this amount in normal/wet years, as long as its long-term pumping average does not exceed 35,035 AF. The AWSDA guidance document states: “...*the Dry Year [water supply] will be applied over the twelve-month [reporting] period (July 1 – June 30)*” and a “dry year” is based on a previous historic dry year, such as the driest year on record. According to Section 7.1.1 of the District’s 2020 UWMP, SSWD’s available groundwater supply during dry years is greater than the average

annual sustainable yield. Using the District's long-term pumping average for the purposes of the AWSDA, the District's projected water supply is 35,035 AF for the July 1, 2023 – June 30, 2024, reporting period. See Figure 3.

Report Table 4: Water Assessment

Based on the District's projected unconstrained demand and projected water supply, the District is projecting a 9% water supply surplus. See Figure 4.

Report Table 5: Actions

Based on the results of the analysis, the District is not projected to implement any increased water demand management actions for the July 1, 2023 – June 30, 2024, reporting period. See Figure 5.

Conclusion

Just as its predecessor agencies, the District continues to safeguard and diversify its water supplies through effective resource management by acquiring various surface water agreements for conjunctive use. The District has banked enough groundwater to maintain a healthy, sustainable aquifer. The Sacramento region has received enough rain and snow that the District will have access to all the water from its surface water agreements¹ in 2023. Though Table 3 of the AWSDA asks for Projected Supplies in a dry year, the District has been utilizing surface water since January 1, 2023, and is projecting to use surface water (banking its groundwater) for the remainder of the supplier's annual assessment planning cycle. The District has invested in water conservation and demand management programs to effectively reduce average annual water demands. Through effective water supply management and water demand management, the District has adequate water supplies to provide 100% of its projected unconstrained water demands, without restriction, from July 1, 2023, to June 30, 2024.

¹ The District's surface water agreements with Placer County Water Agency, San Juan Water District, and the City of Sacramento total 59,064 AF.

Figures

Figure 1: Reporting Table 1, Unconstrained Customer Demand by Customer Class

| Table 1: Information | | Next |
|--|--|------|
| Year Covered By This Shortage Report (REQUIRED) | | |
| Start: July 1, | 2023 | |
| End: June 30, | 2024 | |
| Volume Unit for Reported Supply and Demand (must use same unit throughout) | AF | ▼ |
| Supplier's Annual Assessment Planning Cycle (REQUIRED) | | |
| Start Month: | March | ▼ |
| End Month: | February | ▼ |
| Data Reporting Interval Used: | Annually (1 data point per year) | ▼ |
| Water Supplier's Contact Information (REQUIRED) | | |
| Water Supplier Name: | Sacramento Suburban Water District | |
| Contact Name: | Greg Bundesen | |
| Contact Title: | Conservation and Communications Supervisor | |
| Street Address: | 3701 Marconi Ave. | |
| Zip Code: | 95821 | |
| Phone Number: | 9166792890 | |
| Email Address: | gbundesen@sswd.org | |
| Report Preparer's Contact Information (If different from above) | | |
| Preparer's Organization Name: | | |
| Preparer's Contact Name: | | |
| Phone Number: | | |
| Email Address: | | |
| Supplier's Water Shortage Contingency Plan | | |
| WSCP Title: | Urban Water Management Plan | |
| WSCP Adoption Date: | 06/01/2021 | ▼ |
| Other Annual Assessment Related Activities (optional) | | |
| Activity | Timeline/Outcomes/Links/Notes | |
| Annual Assessment/Shortage Report Title: | | |
| Annual Assessment/Shortage Report Approval Date: | ▼ | |
| Other Annual Assessment Related Activities: | | |

Figure 2: Reporting Table 2, Unconstrained Customer Demand by Customer Class

| Back | | Table 3: Water Supplies ¹ | | | | | | | | | | | | Next | | | | |
|--|-----------------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|----------------------------|------------------------------|--|---|---|
| Water Supply | Start Year: | Volumetric Unit Used: AF | | | | | | | | | | | | Total by Water Demand Type | Water Quality Drop Down List | Total Right or Safe Yield * (optional) | | |
| Drop down list May select each use multiple times. These are the only Use Types that will be recognized by the WUEdata online submittal tool. (Add additional rows as needed) | Additional Detail on Water Supply | Projected Water Supplies - Volume ² | | | | | | | | | | | | | | | | |
| | | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun ³ | | | | | |
| Potable Supplies | | | | | | | | | | | | | | | | | | |
| Groundwater (not desal.) | SSWD | | | | | | | | | | | | 35,035 | 35,035 | | | + | |
| Surface water (not desal.) | SJWD | | | | | | | | | | | | 0 | 0 | | | - | |
| Surface water (not desal.) | PCWA | | | | | | | | | | | | 0 | 0 | | | - | |
| Surface water (not desal.) | City of Sac. | | | | | | | | | | | | 0 | 0 | | | - | |
| TOTAL BY MONTH (POTABLE) | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35,035 | 35,035 | | | 0 | |
| Non-Potable Supplies | | | | | | | | | | | | | | | | | | |
| TOTAL BY MONTH (NON-POTABLE) | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | + |
| NOTES | | | | | | | | | | | | | | | | | | |
| ¹ Projections are based on best available data at time of submitting the report and actual demand volumes could be different due to many factors. ² Units of measure (AF, CCF, MG) must remain consistent. ³ When optional monthly volumes aren't provided, please enter yearly volumes in the June column (Jun ³). | | | | | | | | | | | | | | | | | | |

Figure 3: Reporting Table 3, Projected Water Supplies

| Back | Table 3: Water Supplies ¹ | | | | | | | | | | | | | | Next | | | |
|--|--------------------------------------|--|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------|----------------------------|------------------------------|--|--|---|
| Water Supply | Start Year: | Volumetric Unit Used: | | | | | | | | | | | | AF | | | | |
| Drop down list May select each use multiple times. These are the only Use Types that will be recognized by the WUEdata online submittal tool. (Add additional rows as needed) | Additional Detail on Water Supply | Projected Water Supplies - Volume ² | | | | | | | | | | | | Total by Water Demand Type | Water Quality Drop Down List | Total Right or Safe Yield * (optional) | | |
| | | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun ³ | | | | | |
| Potable Supplies | | | | | | | | | | | | | | | | | | |
| Groundwater (not desal.) | SSWD | | | | | | | | | | | | | | 35,035 | 35,035 | | + |
| Surface water (not desal.) | SJWD | | | | | | | | | | | | | | 0 | 0 | | - |
| Surface water (not desal.) | PCWA | | | | | | | | | | | | | | 0 | 0 | | - |
| Surface water (not desal.) | City of Sac. | | | | | | | | | | | | | | 0 | 0 | | - |
| TOTAL BY MONTH (POTABLE) | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35,035 | 35,035 | | 0 |
| Non-Potable Supplies | | | | | | | | | | | | | | | | | | |
| TOTAL BY MONTH (NON-POTABLE) | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| NOTES | | | | | | | | | | | | | | | | | | |
| ¹ Projections are based on best available data at time of submitting the report and actual demand volumes could be different due to many factors. ² Units of measure (AF, CCF, MG) must remain consistent. ³ When optional monthly volumes aren't provided, please enter yearly volumes in the June column (Jun ³). | | | | | | | | | | | | | | | | | | |

Figure 4: Reporting Table 4, Water Assessment

| Table 4: Water Assessment | | | | | | | | | | | | | |
|--|-------------|-----|-----|------|-----|-----|-------------------------------------|-----|-----|-----|-----|------------------|--------|
| Table 4(P): Potable Water Shortage Assessment ¹ | | | | | | | | | | | | | |
| | Start Year: | | | 2023 | | | Volumetric Unit Used ² : | | | | | AF | |
| | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun ³ | Total |
| Potable Supplies | | | | | | | | | | | | | |
| Anticipated Unconstrained Demand | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32,185 | 32,185 |
| Anticipated Total Water Supply | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35,035 | 35,035 |
| Surplus/Shortage w/o WSCP Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,850 | 2,850 |
| % Surplus/Shortage w/o WSCP Action | | | | | | | | | | | | 9% | 9% |
| State Standard Shortage Level | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Planned WSCP Actions | | | | | | | | | | | | | |
| Benefit from WSCP: Supply Augmentation | | | | | | | | | | | | | 0 |
| Benefit from WSCP: Demand Reduction | | | | | | | | | | | | | 0 |
| Revised Surplus/Shortage with WSCP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2,850 | 2,850 |
| % Revised Surplus/Shortage with WSCP | | | | | | | | | | | | 9% | 9% |
| Table 4(NP): Non-Potable Water Shortage Assessment¹ | | | | | | | | | | | | | |
| | Start Year: | | | 2023 | | | Volumetric Unit Used ² : | | | | | AF | |
| | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun ³ | Total |
| Non-Potable Supplies | | | | | | | | | | | | | |
| Anticipated Unconstrained Demand | | | | | | | | | | | | | 0 |
| Anticipated Total Water Supply | | | | | | | | | | | | | 0 |
| Surplus/Shortage w/o WSCP Action | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % Surplus/Shortage w/o WSCP Action | | | | | | | | | | | | | 0% |
| Planned WSCP Actions | | | | | | | | | | | | | |
| Benefit from WSCP: Supply Augmentation | | | | | | | | | | | | | 0 |
| Benefit from WSCP: Demand Reduction | | | | | | | | | | | | | 0 |
| Revised Surplus/Shortage with WSCP | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| % Revised Surplus/Shortage with WSCP | | | | | | | | | | | | | |
| NOTES | | | | | | | | | | | | | |
| ¹ Projections are based on best available data at time of submitting the report and actual demand volumes could be different due to many factors. | | | | | | | | | | | | | |
| ² Units of measure (AF, CCF, MG) must remain consistent. | | | | | | | | | | | | | |
| ³ When optional monthly volumes aren't provided, please enter yearly volumes in the June column (Jun ³). | | | | | | | | | | | | | |

Figure 5: Reporting Table 5, Actions

| Year Covered By This Shortage Report | | July 1, 2023 | | to June 30, 2024 | | |
|---|---|--|--|--|---|-----------|
| Anticipated Shortage Level Drop Down List of State Standard Levels (1-6) and Level 0 (No Shortage) | ACTIONS: Demand Reduction, Supply Augmentation, and Other Actions. (Drop Down List) These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply. | Is Action Already Being Implemented? (Y/N) | How much is action going to reduce the shortage gap? | | When is shortage response action anticipated to be implemented? | |
| | | | Enter Amount | (Drop Down List) Select % or Volume Unit | Start Month | End Month |
| Add additional rows as needed | | | | | | |
| 0 (No Shortage) | No Actions | | | | | |
| <p>Notes: (NOTES Section to be used only for clarifying details, and not for listing specific actions. Actions need to be entered into rows above.)</p> | | | | | | |

If you plan Supply Augmentation Actions then you must enter WSCP Benefits from Supply Augmentation Actions into Table 4.
 If you plan Demand Reduction Actions then you must enter WSCP Benefits from Demand Reduction Actions into Table 4.
 If an Action is planned to be implemented in multiple non-contiguous periods of the year, the supplier is to make separate entries on multiple rows for the same action spanning the different implementation periods.