



RIVERSIDE PUBLIC UTILITIES

Board Memorandum

BOARD OF PUBLIC UTILITIES

DATE: MAY 23, 2022

SUBJECT: ANNUAL WATER SUPPLY AND DEMAND ASSESSMENT

ISSUES:

Consider approving the Riverside Annual Water Supply and Demand Assessment; and recommend that the City Council adopt the Riverside Annual Water Supply and Demand Assessment.

RECOMMENDATIONS:

That the Board of Public Utilities:

1. Approve the Riverside Annual Water Supply and Demand Assessment; and
2. Recommend that the City Council adopt the Riverside Annual Water Supply and Demand Assessment.

BACKGROUND:

California Water Code Section 10632.1 requires that urban water suppliers prepare an Annual Water Supply and Demand Assessment (AWSDA) and submit an Annual Shortage Report to the California Department of Water Resources (DWR) by July 1 of every year starting in 2022 and every year thereafter.

The purpose of the Annual Assessment is to:

1. Evaluate water supply reliability for the current year and one dry year; and
2. Generate and submit an AWSDA and results regarding their anticipated shortages to DWR annually by July 1, starting on July 1, 2022.

The AWSDA and associated Annual Shortage Report are to be prepared by water agencies based on the procedures detailed in their adopted Water Shortage Contingency Plan (WSCP) and the recommendations provided by the DWR AWSDA Guidance document.

The AWSDA final Guidance document was published on April 19th, 2022.

DISCUSSION:

The following table (Table 1) summarizes the topics that DWR requires as part of the AWSDA:

Table 1. Elements of the AWSDA Required Submittal

	Report Topic
Table 1	Annual Assessment Information
Table 2	Key Data - Demands, containing estimated unconstrained demand from July – June of next year
Table 3	Key Data - Supplies, containing estimated available supplies from July – June of next year
Table 4	Annual Water Shortage Assessment, showing a summary of monthly supply/demand balances and shortages and results of planned actions.
Table 5	Planned Water Shortage Response Actions, containing information on planned water shortage response actions (if any)
RPU Methodology	Optional attachments to include details on implementing the procedures that took place this year. Information may consist of descriptions of the steps followed, data sources considered, methodologies used, and the decision-making process

Riverside’s Available Water Supply Projection for 2022-2023.

Riverside Public Utilities’ (RPU) AWSDA reflects the available water supply from groundwater extraction rights in the San Bernardino Basin Area (SBBA), Riverside Basins, and the Rialto-Colton Basin, as shown in Table 2 below.

Table 2. Riverside’s Annual Extraction Rights (in acre-feet)

Groundwater Basin	RPU Annual Extraction (AF)
SBBA	55,263
Rialto-Colton	2,728
Riverside North	10,902
Riverside South	16,880
Total	85,773

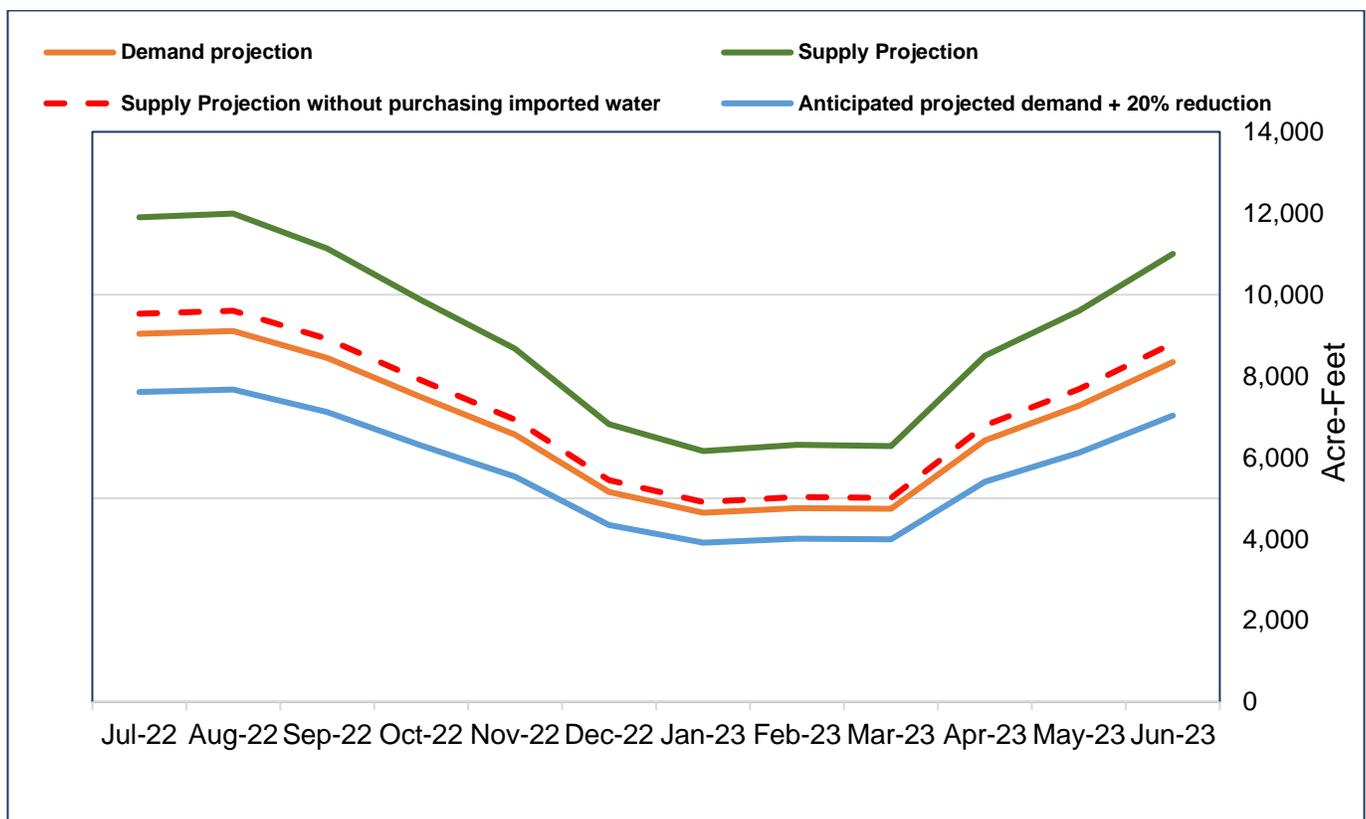
In addition to the extraction rights shown above, RPU also has an agreement with Western Municipal Water District (WMWD) to access up to 21,700 Acre Feet per Year (AFY) of imported water and recycled water for non-potable uses, which is supplied from the City of Riverside Regional Water Quality Control Plant that satisfies the need of up to 800 AFY.

RPU generally produces below its fixed extraction rights. Should a drought increase local water demand, RPU has the capacity and rights to increase pumping to maximize its fixed extraction rights in that drought year. As of 2022, RPU is able to meet all current demands with local groundwater supplies.

Riverside’s Water Demand for 2022-2023

The total potable and non-potable monthly water demand projections for RPU from July 2022 to June 2023 are estimated by adding next year’s projected water demand for all customer categories. The estimated demands are based on the last five years’ monthly average gallon per capita per day (GPCD) and the projected population changes, weather, and growth and 20% demand reduction per RPU WSCP stage 3.

Projected Water Supply vs. Water Demand)



Based on the calculation method provided in the DWR AWSDA Guidance, RPU’s supply projection will be able to meet demand for next year with unconstrained water demand projections. However, and due to the Governor’s EO N-7-22 Drought Emergency Declaration, DWR has asked that every water agency submitting AWSDA needs to include up to a Level 2 per state restriction, which corresponds to stage 3 in RPU WSCP, in their Annual assessment. Therefore, RPU is including Stage 3 (20% demand reduction) of the Water Supply Shortage Contingency Plan stages in the 2022-2023 AWSDA and the results are highlighted in the graph above.

STRATEGIC PLAN ALIGNMENT:

The AWSDA aligns with Envision Riverside 2025 Strategic Plan **Priority #4 - Environmental Stewardship** and **Goal No. 4.2** - Sustainably manage local water resources to maximize reliability and advance water reuse to ensure safe, reliable, and affordable water to our community.

This item aligns with each of the five Cross-Cutting Threads as follows:

1. **Community Trust** – The AWSD assessment identifies the next year’s supply and demand for RPU customers to ensure their water needs are met, thereby enhancing community trust.
2. **Equity** – All customers within RPU’s service area will benefit from the assessment of having reliable drinking water to meet demand.
3. **Fiscal Responsibility** – The AWSD Assessment will help keep the cost of water affordable by ensuring RPU’s anticipated supplies will meet demand in the near-term without purchasing imported water.
4. **Innovation** – Riverside is proactively preparing the AWSD Assessment to evaluate water system reliability for the coming year and determining if any water shortage response actions are currently needed.
5. **Sustainability & Resiliency** – Riverside is committed to meeting the needs of the present without compromising the needs of the future and ensuring the City’s capacity to persevere, adapt and grow during good and difficult times alike.

FISCAL IMPACT:

There is no fiscal impact associated with this informational report.

Prepared by: Michael Plinski, Engineering Manager
Approved by: Todd M. Corbin, Utilities General Manager
Approved by: Kris Martinez, Assistant City Manager
Approved as to form: Phaedra A. Norton, City Attorney

Certifies availability of funds: Edward Enriquez, Interim Assistant City Manager/Chief Financial Officer/Treasurer

- Attachments:
1. RPU Annual Water Supply and Demand Assessment (Methodology)
 2. RPU Annual Water Supply and Demand Assessment (Tables)
 3. Presentation