
SOUTH JORDAN CITY CITY COUNCIL REPORT

Meeting Date: 5/6/25

Issue: A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOUTH JORDAN, UTAH, ADOPTING THE 2025 DRINKING WATER SYSTEM MASTER PLAN FOR THE CITY OF SOUTH JORDAN

Submitted By: Brad Klavano / Raymond Garrison
Department: Engineering/Public Works

Presented By: Brad Klavano and Raymond Garrison

Staff Recommendation (Motion Ready): Approval Resolution 2025-25 adopting the 2025 Drinking Water System Master Plan for the City of South Jordan.

BACKGROUND: A Drinking Water System Master Plan has been prepared by Hansen Allen & Luce and is now ready for adoption by City Council.

OVERALL KEY POINTS – 2025 Culinary Water Master Plan

- The 2025 Drinking Water System Master Plan update was prepared by Hansen Allen & Luce, and it will replace the 2017 Culinary Water Master Plan.
- It provides recommendations to manage the existing South Jordan City's culinary water system with safety, efficiency, and reliability.
- It also provides recommendations of future source, distribution, and storage requirements that are necessary to support the projected growth of the City mainly in the Daybreak and future Midas Community (Rio Tinto/Kennecott Annexed Area).
- The plan also includes a recommendation to replace pipelines in the existing system to maintain its integrity and reliability.
- The recommended infrastructure projects were developed and recommended to comply with the State of Utah Division of Drinking Water (DDW) requirements outlined in section R309-510 of the Utah Administrative Code.
- Project cost estimates are included in the plan to allow City staff to budget for the needed expenses.

MASTER PLAN DEVELOPMENT

- Daybreak Community and the future Midas Community were used to determine the necessary water requirements as these two communities are growing and will grow rapidly.

- Study of existing and future water demands were established in the City's culinary water hydraulic model by studying the current and future level of service requirements, as well as the land use classifications that have been adopted in the City's 2020 General Plan.
- South Jordan City's water availability was determined by studying the existing connections to Jordan Valley Water Conservancy District's (JVWCD) water system since JVWCD is the City's water wholesale retailer. Peak day water demand was a key factor to determine if the water available was adequate to provide residents with indoor-outdoor demands across the different water pressure zones established in the City.
- Storage facilities requirements were studied on the basis of whether or not these facilities meet the necessary equalization, fire suppression, and emergency storage required by the Utah Division of Drinking Water. The existing storage facilities met the emergency storage requirement to provide water for a period of five hours with the understanding that higher facilities (Tank 7/8) include additional storage volume that can be supplied to lower pressure zones.
- Study of the existing main distribution pipelines to develop a pipeline replacement program based on material, diameter, location, and date of installation.

RECOMMENDATIONS

- Tanks for future pressure zone 9 and 10 need to be designed and constructed as development and growth proceeds in the Midas Community.
- Use of existing storage facilities and PRVs to avoid peaking from JVWCD connections.
- The future Midas Community
- Fire flow deficiencies projects need to be addressed to comply with fire flow requirements.
- Construction of two additional pipelines (one at 4000 W by the Welby Elementary School and one from the 8.4 MG Zone 7/8 South Tank to approximately Bingham Rim Road.) to increase redundancy in the system.
- Pipeline replacement projects identified should be addressed based on the priority established. These projects are mainly older ductile iron transmission pipelines (east and west of Bangerter Highway) and three PVC pipelines (east of Bangerter)

TEAM FINDINGS, CONCLUSIONS & RECOMMENDATIONS:

FINDINGS: The 2025 Drinking Water System Master Plan will provide specific direction to South Jordan City based on City water use demand data and standards, for decisions that will be made over the next twenty years to help the City provide adequate drinking water and fire protection to residents and businesses in the City of South Jordan.

CONCLUSIONS: The 2025 Drinking Water System Master Plan will ensure that a coordinated, master-planned effort is undertaken to plan for the Drinking Water and Fire Protection needs of the City given the current future land use planning.

RECOMMENDATIONS: For reasons outlined in the 2025 Drinking Water System Master Plan and staff presentation, staff recommends that the City Council approve Resolution 2025-25, the 2025 Drinking Water System Master Plan for the City of South Jordan.

FISCAL IMPACT: As outlined in the 2025 Drinking Water System Master Plan

ALTERNATIVES:

1. Deny Resolution 2025-25
2. Hold on Resolution 2025-25, if further analysis is warranted

SUPPORT MATERIALS:

1. Resolution 2025-25

RESOLUTION R2025-25

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF SOUTH JORDAN, UTAH, ADOPTING THE 2025 DRINKING WATER SYSTEM MASTER PLAN FOR SOUTH JORDAN CITY.

WHEREAS, a Drinking Water System Master Plan has been prepared by Hansen Allen & Luce in February, 2025; and

WHEREAS, the 2025 Drinking Water System Master Plan update is providing recommendations to the City of South Jordan that will help the City provide safe, efficient, and reliable drinking water to its customers, both now and into the future, at a reasonable cost; and

WHEREAS, the City Council finds and determines that the 2025 Drinking Waters System Master Plan will support the best interests of the City and will promote the public health, safety, and welfare of the citizens and businesses of South Jordan City.

WHEREAS, this Drinking Water System Master Plan update will replace the previous 2017 Drinking Water System Master plan.

NOW THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF SOUTH JORDAN CITY, STATE OF UTAH that the document entitled 2025 Drinking Water System Master Plan prepared by Hansen Allen & Luce, dated February, 2025, a copy of which is available for City Council review, is hereby adopted as the Drinking Water System Master Plan of South Jordan City.

[SIGNATURE PAGE FOLLOWS]

APPROVED BY THE CITY COUNCIL OF THE CITY OF SOUTH JORDAN,
STATE OF UTAH, ON THIS _____ DAY OF _____, 2025, BY THE
FOLLOWING VOTE:

	YES	NO	ABSTAIN	ABSENT
Patrick Harris	_____	_____	_____	_____
Kathie Johnson	_____	_____	_____	_____
Donald Shelton	_____	_____	_____	_____
Tamara Zander	_____	_____	_____	_____
Jason McGuire	_____	_____	_____	_____

Mayor: _____
Dawn R. Ramsey

Attest: _____
Anna Crookston, City Recorder

Approved as to form:



Office of the City Attorney