

Mr. Travis Jockumsen
Technical Committee Chairman
Mt. Nebo Water Agency (MNWA)
Payson City
439 W Utah Ave
Payson, UT 84651

May 6, 2025

RE: Additional Groundwater Modeling

Dear Travis,

Hansen, Allen & Luce, Inc. (HAL) has been asked to provide this proposal to the Mt. Nebo Water Agency (MNWA) to further answer the questions of timing for communities reaching safe yield withdrawals in southern Utah Valley and advisement on aquifer management for fiscal year 2026. Per our Mt. Nebo Technical Committee meeting on April 8 and the followup meeting on April 15, we understand that the desired outcome is to use MAG population projections, the 2020 Safe Yield Study, and the recently updated Southern Utah Valley USGS groundwater model to model how quickly communities may reach the safe yield groundwater withdrawal threshold which will necessitate the use of treated surface water for drinking water supplies. HAL worked with the Technical Committee in 2024-2025 to update the USGS model and documented those efforts in a presentation. Therefore, the required work will use the updated model and population projections to model a hypothetical growth scenario.

SCOPE OF WORK

TASK 1 – Additional Groundwater Modeling

- a. Update the existing and future groundwater models with the latest information on hydrogeologic conditions.
- b. Convert population projections through 2065 to future water growth.
- c. Apply future water growth determinations to yearly well withdrawal increases through 2065, and distribute growth to existing wells which are under 50% annual capacity and new wells (planned or assumed) in the model for each subarea.
- d. Calibrate models with monthly submitted well depth readings.
- e. Utilize calibrated groundwater model to review how the projected well withdrawals are impacting the aquifer within each subarea, compare those aquifer levels to the assumed safe yield, and determine the years in which safe yield is exceeded.
- f. Run the groundwater models with various scenarios to determine the overall conditions of the aquifer based on future anticipated well withdrawals.
- g. Use groundwater model outputs to help inform the next year's groundwater withdrawals for each member.
- h. Meet with Technical Committee to discuss results for the year and prepare a summary for the Board meeting.

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SCHEDULE

Assistance with the Additional Groundwater Modeling task will take place in May 2025 through June 2026.

PROPOSED BUDGET

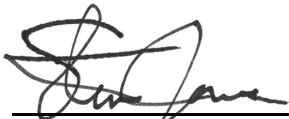
The following is a suggested proposed budget based on the tasks described above and are consistent with the Groundwater Management Program memorandum that has been reviewed by the Technical Committee. All work will be billed according to HAL's attached standard hourly rates.

Task 1 – Additional Groundwater Modeling	\$40,500
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Thank you for the opportunity to work with MNWA to further investigate the patterns of growing water demand and healthy aquifer levels. Please let us know if you have any questions about this proposal.

Respectfully,

HANSEN, ALLEN & LUCE, INC.



Steven C. Jones, P.E.
CEO