

DRAFT

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August 4, 2026

Dane Simonsen, PE
Senior Project Manager
JEO Consulting Group
2000 Q St., Suite 500
Lincoln, Nebraska 68503

**Reference: Draft Proposal for Hydrogeologic Services – Test Well Data Analysis
City of Waverly Wellfield; Waverly, Nebraska**

Dear Mr. Simonsen:

The City of Waverly, Nebraska (City) is currently exploring further expansion of its wellfield with the addition of a new production well. The City has requested that JEO Consulting Group (JEO) conduct a test well investigation to select a new production well location. One test well has been installed. JEO plans to have installed two more test wells and an observation well for all three test wells, and to have conducted stepped-rate and constant-rate aquifer tests on each test well. I am pleased to present this proposal to JEO to provide hydrogeological consulting services to support the aquifer investigation and analysis of data collected at the test wells.

Scope of Proposed Hydrogeological Consulting Services:

- Task 1: Telephone and Email Support as Needed During Test Well Construction and Testing:
 - Selection of depth to set well screen.
 - Selection of rates for stepped-rate and constant-rate aquifer tests.
- Task 2: Data Analysis from Drilling and Aquifer Testing:
 - Review hydrogeologic geologic (well logs, pumping records) of existing production wells in the wellfield.
 - Review test hole data collected from current investigation.
 - Analyze pumping test data for aquifer parameters of transmissivity and storage coefficient using time-drawdown methods.
 - Develop potential production rate for a permanent well completed at the test well locations.

- Task 3: Develop Hydrogeological Report for Submittal to Lower Platte South NRD:
 - Present aquifer exploration and testing procedure and data.
 - Present pumping test analysis and results for the three test wells.
 - Present a discussion of potential 20-year impact to the aquifer from adding a new well:
 - Volume of water pumped.
 - Future plans to increase pumping volume.
 - Likelihood of water levels returning to static between pumping intervals.
 - Projected drawdown at the pumped well and area of influence after 20 years of operation as determined by analytical methods.
 - Submit to JEO a draft Hydrogeological Report.
 - Online meeting with JEO to discuss JEO review comments.
 - Submit to JEO a final sealed Hydrogeological Report

Client Provided Information:

JEO will provide the following:

- Test hole drilling data from the proposed test wells and observation wells to include: drillers logs, electric logs (if performed), and sieve analyses of formation samples.
- Pumping test data.
- Available hydrogeologic data on existing wells in the wellfield.

Deliverables:

- One electronic copy of draft Hydrogeological Report for review.
- One electronic copy of final Hydrogeological Report.

Key Assumptions:

- Recommendations will be based on data provided by JEO.
- Data and documents provided by JEO will be provided electronically.
- Dwight Douglas Haney will not attend any in-person meetings.
- Dwight Douglas Haney will not provide field hydrogeology services.
- Dwight Douglas Haney will not perform any groundwater modeling.

Cost:

<u>Task Number</u>	<u>Hydrogeologist Hours</u>	<u>Fee</u>
Task 1	8	\$ 1,240
Task 2	30	\$ 4,650
Task 3	28	\$ 4,340
Total	66	\$ 10,230

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The above scope of hydrogeologic services would be performed for JEO at an hourly rate of \$155 plus travel expenses, with the total not to exceed \$10,230 without approval.

I am prepared to begin upon your approval of this proposal, and execution of a subconsultant contract.

Thank you for your consideration. Please contact me at (573) 275-4816 if you have any questions.

Sincerely,

Dwight Douglas Haney, P.E., P.G.
Consulting Hydrogeologist