



# LOWER PLATTE NORTH Natural Resources District

PO Box 126 511 Commercial Park Road Wahoo, NE 68066  
402.443.4675 lpnrd@lpnrd.org www.lpnrd.org

## **Request for Qualifications**

### **Lower Platte North Natural Resources District**

#### **Hydrogeologic Assessment Geodatabase**

**Due: Friday, January 27, 2023, by 3:00 pm**

The Lower Platte North Natural Resources District (LPNNRD) is requesting qualifications from firms specializing in hydrogeology to complete a Hydrogeologic Assessment Geodatabase (Assessment). The Assessment will utilize all available geologic data, including well logs and test holes.

In 2022, LPNNRD constructed 29 hydrogeologic cross sections through LPNNRD as part of a joint project with Papio-Missouri River NRD (PMRNRD) showing the lithology from well logs for a visual comparison to the Airborne Electromagnetic (AEM) profiles; however, the LPNNRD-wide hydrogeologic assessment work, similar to what was completed for Lower Elkhorn NRD (LENRD), PMRNRD, and Lower Platte South NRD, has yet to be completed. With the completion of LPNNRD's Assessment, all Lower Platte River Basin NRDs will have consistently constructed AEM and geologic frameworks. The LPNNRD intends to have the Assessment completed by August 2023 so it can be utilized for future groundwater modeling projects. The LPNNRD received a Water Sustainability Fund (WSF) Grant for \$56,000 to conduct this Assessment Project and plan on staying within this budget.

The selected firm must ensure the analysis is consistent with methods used to complete the existing hydrogeologic cross sections and create raster surfaces of the unconsolidated material using ArcGIS Spatial Analyst that are consistent with adjoining NRDs. LPNNRD is requesting that the following map layers are requested to be generated:

- Well and test hole locations and high-capacity well density
- Ground surface topography and locations of major streams and rivers
- Locations of high-capacity wells and registered domestic wells
- Groundwater level data and groundwater surface maps
- Depth to groundwater
- Confined and unconfined Principal Aquifer
- Groundwater connection with surface water (i.e., perennial streams)
- Thickness and extent of saturated sands and gravels
- Well specific capacities and transmissivity of the Principal Aquifer
- Bedrock geology, extent of till, and bedrock surface topography
- District-wide vulnerability to contamination
- Irrigation development risk

Interested parties should submit the following documentation, to be delivered electronically (via email or flash drive) AND one paper copy, to LPNNRD no later than Friday, January 27, 2023, by 3:00 pm:

- Statement of Qualifications to include previous experience with hydrogeologic assessments and AEM frameworks in the Platte River Basin or similar basins with project examples.
- A description of the project team and organizational structure including resumes.
- Describe the project approach detailing how the geologic data will be analyzed and mapped.
- Scope of Work to include:
  - Project Management and Meetings
  - Hydrogeologic Assessment Framework
  - Deliverables
    - Provide the LPNNRD electronic GIS layers.
    - A final ESRI geodatabase and other mapping files.
- Schedule that outlines key milestones based on an August 2023 deadline.

The LPNNRD intends to select an applicant at its regularly scheduled Board of Directors meeting on February 13, 2023, based off proposal evaluations from the NRD staff and NRD Water Committee members. The LPNNRD reserves the right to reject any and all proposals, waive minor irregularities in proposals, and/or accept the proposal deemed most beneficial to LPNNRD's interest. This RFQ in no way obligates LPNNRD to enter into any contract for goods or services until such time as written agreement between parties is signed by each parties designated representative.

Questions regarding this RFQ may be directed to Daryl Andersen, [dandersen@lpnnrd.org](mailto:dandersen@lpnnrd.org) or (402) 443-4675.

Send Paper Copy or deliver to:  
Lower Platte North NRD  
PO Box 126  
511 Commercial Park Road  
Wahoo, NE 68066-0126