

WSF 2018 Annual Report # 4132

PROJECT: Lower Platte South NRD Aquifer Framework Mapping –
WSF Application #4132 (awarded April 2016)

DATE: MARCH 27, 2018
(FIRST ANNUAL REPORT DUE ON
OR BEFORE APRIL 1, 2018)

See Application 4132 Section D #2 For Project Scope Summary and Timeline

PROJECT PROGRESS APRIL 2017 TO APRIL 2018:

The Lower Platte South Natural Resources District (LPSNRD) Airborne Electromagnetic Survey (AEM) flights were flown between July 27, 2016 and August 2, 2016 over the eastern portion of the District and reported on the previous WSF 2017 Annual Report for the above-referenced project. The final LPSNRD AEM results report from Aqua-Geo Frameworks, LLC (AGF) was received by LPSNRD on November 10, 2017. The final report summarized the AEM survey results and incorporated the results with existing cross section and Conservation and Survey Division (CSD) test-hole data, GIS spatial data, and NDNR registered well data (select logs of registered wells will be used for general reference and comparisons). The report included the following results:

- Full Report text as a pdf document
- Appendix 1 – LPSNRD AEM Flight Line 2D Profiles in pdf format
- Appendix 2 – LPSNRD AEM 3D Fence Diagrams and Voxel Images in pdf format
- Interactive Google Earth datasets and 164 associated interpreted profile images
- Electronic deliverables (borehole data, raw and interpreted AEM datasets, GIS files etc.)

ANTICIPATED ACTIVITIES FROM NOW UNTIL NEXT ANNUAL REPORT DUE APRIL 1, 2019:

The report results are scheduled for presentation by AGF at the Lower Platte South NRD on April 4, 2018. Once the LPSNRD board approves the report, the pdf and Google Earth datasets will be publically available from <http://enwra.org/aem2016.html> (posted online through the Lower Platte South NRD hotlink at the top of the page). The LPSNRD anticipates submitting the final status report to the Department for WSF #4132 following the April 2018 results presentation, likely issuance in the month of May 2018.

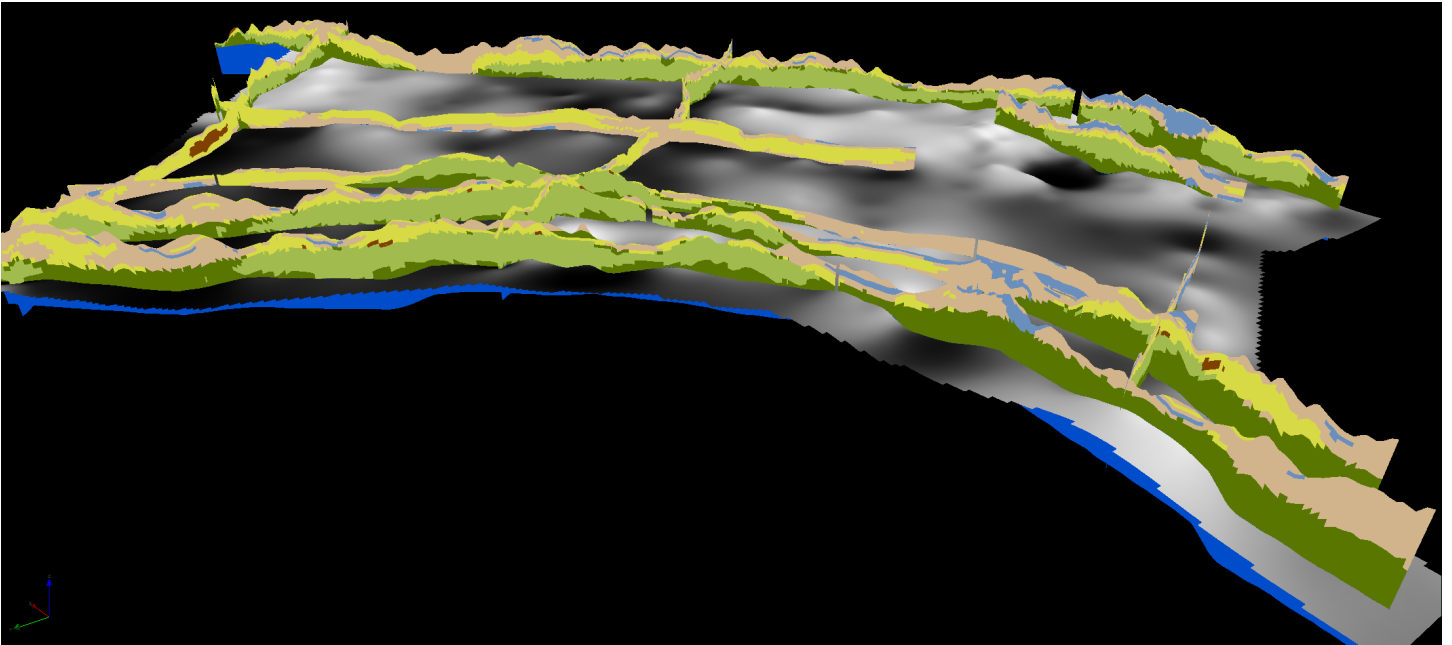
ANTICIPATED CASH FLOW FOR REMAINDER OF THE PROJECT:

None, LPSNRD received the final reimbursement of \$49,999.80 from WSF (60% of the final AGF invoice) satisfying the grant award on March 23, 2018.

LIKELIHOOD THAT BENEFITS PROJECTED IN APPLICATION 4132 WILL BE REALIZED:

Based on preliminary review of the FINAL report results provided by AGF November 10, 2017, the project is on target for achieving the benefits to the LPSNRD as described in the application. More detail will be provided in the anticipated upcoming May 2018 Final Status report to WSF.

Hydrogeologic Framework of Selected Areas in the Lower Platte South Natural Resources District, Nebraska



Prepared for:

Lower Platte South Natural Resources District

**3125 Portia St
Lincoln, NE 68521**

November 10, 2017



Aqua Geo Frameworks, LLC.