



WSF 2022 Annual Report

Grant Application No. 5315

Titled: MRNRD Hydrogeologic Mapping

Grant Amount: \$1,222,899.17

Project Progress:

Year one for this project consists of securing the AEM contract with Aqua Geo Frameworks. MRNRD signed a contract with AGF that matched our estimated costs to accomplish the AEM flights and data analysis. The total amount the AEM portion for year one of this project will cost \$412,768. We plan on flying a block of our NRD each year for the next four years. The cost of doing so will vary, depending on the number of line miles flown.

Project Activities for coming year:

The activities for the coming year begin with determining our flight lines. AGF has received all power line locations and is currently plotting flight paths to minimize interference from them. After the flight path is determined, AGF will begin planning the logistics of getting the flight done as efficiently as possible. Weather is the determining factor of how quickly the flights can be done, but they have given us a rough estimate of 10 days to a month to complete. Helicopter flights are planned to begin in August.

Reassessment of the Project Benefits:

The MRNRD is constantly learning more about these projects and is a major factor in deciding to fly our entire district with AEM. We suspect that once we have all the data and models developed, we will see a greater impact on our management of the natural resources in this district.

Summary:

The MRNRD is on track for completing this project on time and hasn't had any major changes in the process or timeline. We have gotten the ball rolling on the major components of this project and we look forward to seeing what sort of information it can provide. Our hope is to continue to assess the needs of our producers and maintain the aquifer for future generations. We believe at the end of this project we will have a valuable tool to meet those needs.