

A Day in the Life of a Twin Metals Minnesota Field Geologist

Field geologists are integral members of the Twin Metals Minnesota (TMM) staff as each geologist helps the company understand and further define the mineral deposits which are a part of the TMM project. The field geologists at TMM take small details they gather from extracted core samples, using them to create a larger picture of the TMM deposits. Currently, the TMM office has five field geologists on staff.



A typical day for a TMM field geologist often starts in the Ely operational headquarters where they will check-in, go through emails and attend any team meetings. Once a week, all geologists and staff members attend a staff meeting where safety lessons and tips are shared and drill status and progress is updated. In addition to the weekly TMM staff meeting, one TMM geologist also attends the IDEA Drilling safety meeting, TMM's drilling contractor from Virginia, Minn., and reports IDEA's safety information back to the larger TMM team.

Once meetings and safety shares are completed, field geologists spend the majority of their day working in the core shed or out in the field. One of their primary responsibilities is observing the characteristics of core samples. A core sample is a cylindrical section of rock drilled from the earth. This includes going through every box and ensuring each

piece of core is accounted for, electronically recording and logging the core, taking images of the core for data purposes and marking the core for cutting by a geological technician. Occasionally, geologists also do mapping to help better define their core sample logging. Additionally, geologists distinguish which samples of the core are selected for further chemical analysis. All this data collected from the core samples will help Twin Metals develop a Mine Plan of Operation.

The core samples, which are the basis for the geologists work, are extracted by drill rigs, located throughout the field, which the field geologists take turns overseeing. When a geologist is on call and in charge of the drill rigs he or she is responsible for helping to manage the drill alignment, drilling core depths and ensuring they end at the appropriate depth. When constructing a new drill site, the field geologists are also in charge of coordinating surveyors and drillers to get the site up and running. As TMM continues to explore the deposits through drilling and core sample testing, the field geologists continue to be able to better define the picture and scope of the project.



For more information on Twin Metals Minnesota's project, please visit www.twin-metals.com.

The Twin Metals Minnesota "Mine Reader" is a biweekly source of information about its proposed underground copper, nickel, platinum, palladium and gold (strategic metals) mining project in northern Minnesota.

If you have a question about the project, please submit it to info@twin-metals.com. Thank you for your interest.