

GIS Compilation of MN DNR Project 246: Esker Prospecting Over the Duluth Complex in Northeastern Minnesota

GIS Data Completed: January, 2014 by Andrea Strauch

Original Data Completed: 1986

Authors: Dennis P. Martin and Morris Eng

Provided here is a general description of files that are found in 'mpes246_data.zip'

[Link to project webpage](#)

[Link to project report](#)

Abstract:

The folders within this project contain data for samples extracted from ninety-six heavy mineral concentrates described in the Minnesota Department of Natural Resources (MnDNR), Division of Lands and Minerals Report "Esker Prospecting Over the Duluth Complex in Northeastern Minnesota – Report 246," published in 1986. Each folder from the zip file contains data from the report in different formats. The data is presented in a Microsoft Access database, dBase IV files, and an ArcGIS file geodatabase. The conversion of the original data took place in January of 2014 and is described below. Sample data was made spatial by georeferencing plates from the original report and placing points based on the rectified image. Two of the ninety-six sample points were unable to be plotted because they were out of range. Additional information about the table data and project can be found in the report listed above.

Folders and their contents:

ACCESS_RAW_DATA

- mpes246
Above is an Access database created for the purpose of assigning proper field headings, assigning a data type, and exporting into dbase IV format. At this point, all blank or "null" cells were replaced with "-999" to avoid the assignment of erroneous zeros. Original table can be found in the report for project 246 listed above on pages 19-21.

DBF_EXPORTED_FROM_ACCESS

Microsoft Access was used to give the appropriate field headings and data type. One table is listed and was used in the original report (Table4; pages 19-21). **Note**, at this juncture all blank or "NULL" cells were replaced by "-999" to avoid replacement by zeros when pulled into mapping software.

- Table4.dbf

LAYERFILES

Contains more georeferenced images

GEOREFERENCING

[JPG files used to create spatial reference for sample locations]

Files

- P246_MAPMERGED.jpg
- P246_MAP_EASTHALF.jpg
- P246_MAP_WESTHALF.jpg

FILE_GEODATABASE

[Only viewable in ArcGIS 9.3 and above]

File name - mpes246_samples.gdb

- **Feature Dataset – Features**
 - **Features** – mpes246_samplepoints

Any questions regarding the GIS compilation contact:

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