

This map was created by Carrie E. Jennings, Minnesota Geological Survey, to fulfill an agreement between the Science Museum of Minnesota and the University of Minnesota dated the 3 October 2006. It was designed pursuant to a subset of objectives outlined in the Museum's larger project entitled "**Suspended Sediment Source Apportionment in the South Fork of the Crow River,**" sponsored by City of St. Cloud Minnesota as an Upper Mississippi River Source Water Protection Project. The contractor was responsible for producing a compiled surficial geologic map in Arc View at a scale of at least 1:100,000. This map subdivide major glacial geomorphic areas into units based on texture and geologic origin. It was to include a map legend, data points and links to photos taken during field work. An attribute table, also in ArcView, was to contain all relevant textural data. A summary of methods and interpretations was to be included in the report to accompany the map.


DELIVERABLE PRODUCTS CONTAINED ON THIS CD INCLUDE:

1. Map of S. Fork of the Crow watershed at 1:100,000 with legend and accompanying text.
2. Final report that explains geologic setting and frames results in this context.
3. Section of final report that discusses variation in sedimentation rates and natural state of system.

This map of the *Geomorphology and Interpreted Surficial Geology of the South Fork of the Crow River Watershed* is being provided as a digital map product and report. They are best viewed in ArcMap or Arc Info and Microsoft Office Word 2003, respectively, because these platforms will allow access to electronic data sets.

To open the map in a GIS, use [SForkCrow.mxd](#). The field data that support the map are presented in attribute tables for the shape files, *Field Obs and photos* and *McLeod Atlas data*. These data are accessed through the map by clicking on a data point with the *i* tool and opening the associated tabular information. It can also be viewed as an external table in Microsoft [excel](#). If you do not have ArcInfo or ArcMap you can download a free "Explorer" application: <http://www.esri.com/software/arcexplorer/explorer.html>.

Also included are two, pdfs of the map: [Surficial Geology](#) and [Surficial Geology and Geomorphology](#).

Some data points on the map are linked to digital photographs. When the  (lightning bolt icon) is selected, data points with associated photos will change color. When these points are selected with this tool, a photo, linked by a the photo name, will open in the default photo reader. Photos are located in the [photos](#) folder that includes a [photo identification document](#) with captions.

The report has highlighted captions that will open figures. Figure files are labeled with shortened captions.

There is one link to an html file. This is an NRCS site that has a description of a soil profile. It will only work if you are online.

Highlighted references will open electronic copies of the reference material. They are files are organized by authors' last name. Older, non-electronic references are included in the reference list at the end of the report.

If you choose to print out the report, the figures and photo files should be printed out separately.

If you have questions about the geologic information provided in this map and report, please contact the author, Carrie E. Jennings carrie@umn.edu. If it is a technical question, you should contact. Rich Lively lively@umn.edu.