

Final Technical Report submitted as part of
the requirements of

Award Number: 09HQPA0009

Project Title:

NGGDPP Geological and Geophysical
Data Preservation Plan for Michigan

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The results of the activities relating to the three objectives of NNGDPP Grant 09HQPA0009 are discussed below.

A: to inventory new acquisitions to collections at Michigan's two data repositories

New materials have not been added to the Marquette Repository. This because, even though there is a veritable mining boom in the Northern Peninsula, there is no room to accept new materials. Efforts are under way to rectify this situation, but efforts since the 1980's have not been able to address the underlying funding and infrastructure problems. Paper files and related documentation from the repository have been scanned and will be available online as part of the GeoWebFace (GWF) Project and the Enterprise Content Management (ECM) Project. The GWF and ECM both will greatly enhance access to geologic information about Michigan. An incredible amount of time was spent affecting the transfer of the cuttings collection from the OGS in Lansing to MGRRE in Kalamazoo. The cuttings are now in Kalamazoo where indexing and other curatorial functions are proceeding. Due to the inordinate delays in moving the cuttings the index will not be completed by the end of the grant.

Collections from the 1 Office of Geological Survey (OGS), Lansing, 2 Michigan Technological University (MTU), Houghton, 3 Central Michigan University (CMU), Mount Pleasant, the 4 University of Michigan (U of M), Ann Arbor 5 and ANR Gas Storage (ANR) Reed City, have been added to Michigan Geological Repository for Research and Education (MGRRE) at Western Michigan University in Kalamazoo, Michigan. With the exception of collections received within the past month, all these collections have been inventoried.

B: to integrate the data into the NNGDPP database and make data available from the respective repository web sites,

New and revised data has been uploaded to the NNGDPP database and the repository web sites.

Research and Education at Western Michigan University web site
<http://wsh060.westhills.wmich.edu/MGRRE/index.shtml>)

and the DNRE, Office of Geological Survey web site
http://www.michigan.gov/deq/0,1607,7-135-3311_4111_18442-168830--_00.html).

C: to assess the condition of all the geological collections held at the repositories.

Due to the lack of resources and an unpredicted sharp increase in the materials housed at MGRRE, progress in assessing the condition of all collections was not possible. However, the condition of acquisitions during this grant period were assessed:

1. All the cores and cuttings from CMU were contained in boxes which were severely damaged by water and mold. About 5-10% could not be read and could not be saved. About half had to be reboxed. The remainder is in somewhat fragile but stable condition.
2. Similarly, all the cuttings boxes containing unmounted cuttings from the U of M were damaged and many were reboxed. The remainder are in fragile but stable condition. The mounted cuttings from the U of M were in remarkably good shape and very few needed to be reboxed.
3. Boxes containing cores collected from ANR had suffered damage from rodent infestation, requiring about 50% of them to be replaced; remainder are in stable condition.
4. Cuttings and well records received from MTU and OGS were well preserved requiring minimum replacement.

We could not assess the condition of collections acquired prior to this grant year.

Similarly, due to lack of funding and conflicting workload demands, progress on assessing the Marquette repository was not made. We

were able to convert the main files relating to the cores and samples to digital files to be included in the GeoWebFace project scheduled to be operational in October Of 2010.

Summary of data uploaded to the NGGDPP Database:

Description	Collection ID	Records in 2009	Records in 2010
Cores	R1402	3,646	6,124
Cuttings	R1403	1,721	3,069
Geophysical Core analysis	R1404	2,273	2,273
Geochemical Gas analysis	R1406	1,283	1,283
Geologic Logs	R1537	35,330	66,441
Total		44,253	79,190

As per MYUSGS

Name (C ID)	Size	Created
R1402.csv	3.55 MB	12 July 2010 07:46
R1403.csv	7.04 MB	12 July 2010 07:49
R1404.csv	1.31 MB	12 July 2010 07:50
R1406.csv	764.73 KB	12 July 2010 07:51
R1537.csv	32.03 MB	12 July 2010 07:56