

NGGDPP Final Technical Report

Name of State Geologic Survey: Idaho Geological Survey

Award number: G15AP200122

Project Title: USGS Data Preservation 8

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ABSTRACT

The Idaho Geological Survey successfully completed the National Geologic and Geophysical Data Preservation Program (NGGDPP) award number G15AP00122 administered by the U.S. Geological Survey. The effort for FY2015 was to scan donated mine records and maps, largely from the Coeur d'Alene Mining District, that are contained within our Mineral Property Files. We also successfully rescued legacy whole-rock geochemical data, maps, and notebooks from the collection of Bill Bonnichsen. Bill retired from Idaho Geological Survey (IGS) in 2004. We converted geochemical data that Bill had stored in an archaic program on his home computer, obtained and scanned his field maps and notes in order to derive location information, and converted the data to the present IGS format in Excel. In addition to generating metadata for the NGGDPP National Catalog, an updated version of the Idaho Geological Survey Mines and Prospects Database was created. This updated database drives a new Mines web application that went live in FY 2014. The Mines web application greatly facilitates dissemination of Mineral Property File documents, including maps, to the public.

PRODUCTS/REPORTS

The overall management of the project was under the direction of Reed Lewis. Work began August 10, 2015 and took 12 months to complete.

Mineral Property Files—digital infrastructure

The Mineral Property Files consist of consultants' reports, maps, drill logs, and geophysical and geochemical results from over 2,600 mines or prospects in the state and are indexed in our searchable statewide Mines and Prospects database. The effort for FY2015 was to complete scanning of documents in our Mineral Property Files and Mine Map Collection for 326 mines and prospects within the Spokane 1° x 2° quadrangle and post these scanned files in .pdf form for download on the IGS website via the Mines web application. The goal of the scanning was to convert the paper Mineral Property Files, including oversize mine maps and portfolio collections, to a convenient digital format. To date, approximately 40 percent of the overall collection has been scanned. The ultimate goal is to have the entire collection available for download on the IGS website. Included in this scanning effort was our collection of flat mine maps. Over 1800 maps have been scanned thus far, with funding for that effort coming from both the NGGDPP and Idaho Department of Lands. A new mine map collection was created in FY 2014 for the NGGDPP catalog, and the metadata below were reported. However, because the

majority of mine maps to be digitized now reside in our Mineral Property Files, and as these data share the same database table, we have consolidated our Mine Map and Mineral Property Files collections moving forward this fiscal year. This year we reported the following metadata:

1. The mine location number, which is a unique number for each site in the Mines and Prospects Database, and the name(s) of the mine (if known).
2. The latitude and longitude of the mine.
3. The description of the type of mine document.
4. The date of the document (if known).
5. A direct link to the Idaho Geological Survey Mines web application.
6. The date for this submission.

Bonnichsen geochemical data—Data Rescue

The effort for FY2015 was to rescue legacy data from former IGS researcher Bill Bonnichsen. Bill retired from IGS in 2004 and departed with a number of unpublished whole-rock geochemical analyses, as well as field maps and field notebooks. We successfully rescued the geochemical analytical data from an outdated software format and brought the data into a modern (Excel) format. Sample locations were determined from the field maps and field notebooks, all of which were scanned. We will eventually publish the geochemical data as a Digital Analytical Database and distribute the data via our new statewide Geochemical Database that was developed with FY2013 NGGDPP funding. Reed Lewis and Dennis Feeney completed this part of the project. The following metadata were derived:

1. The unique site number indicating where the rock sample was obtained.
2. The latitude and the longitude of the site.
3. The rock name and type of chemical data available for the sample.
4. The approximate year of sample collection.
5. Contact information for additional information regarding this sample.

Success Stories

The biggest success story from the 2015 NGGDPP effort was completion of scanning, entering, and uploading the Spokane 1° x 2° quadrangle Mineral Property Files collection as downloadable .pdf documents. These documents are now available through our Mines web application. This new addition of documents consisted of:

- Generation of 23 Gigabytes of scanned data
- 2,177 documents
- 19,247 individual pages (including 798 maps)

As QAQC procedure allowed, these documents were made available in batches, during processing, through our online Mines web application. During the 2015 NGGDPP effort there were:

- 24,063 Mine document hits
- 2,160 Mine document downloads

Locations of properties with new documents are highlighted in the figure below:

