NWT Open Report 2015-006

Geology of the Spencer Lake area, parts of NTS 085 P/1 & 2 (a digital re-release of EGS 1989-12 in ESRI® and Adobe® formats)

Bedrock geological mapping was conducted throughout the Northwest Territories during the late 1980s to late 1990s and was jointly implemented by the Government of Northwest Territories (RWED, EMPR) and the Federal (DIAND) Government. Many of these areas were mapped at 1:50,000 scale and the principal products resulting from each of these mapping projects are scanned monochrome tif images of variable legibility. These are currently distributed by the Northwest Territories Geological Survey (NTGS).

Significant technological advancements in map production and data delivery have been developed since the original publications were released. In an effort to support and stimulate mineral exploration, the mapping products are being re-released in modern formats that are compatible with current industry standards.

Full-colour digital representations of the original maps are produced in Adobe pdf format, and are suitable for enhanced visualization and conventional printing as hard-copy maps. In addition, all principal components of the maps are produced and presented in a Geographic Information System (GIS), including fully attributed linear and polygon elements. Georeferenced point data, including geochemical analyses of rock samples and field-based structural measurements, form an integral component of the new databases. Significant effort has been devoted to replicating the original publications with geological interpretation of assumed contacts and features required in GIS maps not found in the original maps.

Geochemical data generated during these mapping programs was generally not incorporated in the original publications, and are unavailable from GNWT archives or any other public source associated with the GNWT and Federal mapping program. However, some of the original project leaders have retained copies of all the historical data and have provided the geochemical dataset as a major enhancement to the revised mapping products.

CONTENTS

	- Contains a text and PDF readme file and MXD file. The MXD file will open the geodatabase compilation with pre- set colours and symbols NOTE: To correctly display the structural symbols, you will need to copy the True Type Fonts (.ttf) in the "StructuralSymbols" folder to your windows/fonts folder.
\Layers	- Contains LYR files that will symbolize the appropriate layer with the symbols consistent across map sheets.
\PDF_Plot_ Files	- Contains a full-colour digital representation of the original map produced in Adobe pdf format and is suitable for enhanced visualization and conventional printing as hard- copy maps.
\FileGeodatabase-NAD83Z12	- Contains all the principal components of the map in ESRI's File Geodatabase (projected into UTM Zone 12, NAD 83), including fully attributed linear, polygon and point elements, including geochemical analyses of rock samples and field-based structural measurements.
	Note: Any changes to these files through Windows Explorer will adversely affect the database.
\Shapefiles-NAD83Z12	- Contains editable ESRI's ShapeFiles exported from the File Geodatabase.
\Spreadsheets	- Contains geochemical and structural data generated during the mapping program in Excel spreadsheets (.xlsx).
\StructuralSymbols	- Contains the True Type Fonts (.ttf) that are used for structural symbols to be copied to your windows/fonts folder.

PROJECTION

NAD_1983_UTM_Zone_12N WKID: 26912 Authority: EPSG

Projection: Transverse_Mercator False_Easting: 500000.0 False_Northing: 0.0 Central_Meridian: -111.0 Scale_Factor: 0.9996 Latitude_Of_Origin: 0.0 Linear Unit: Meter (1.0)

Geographic Coordinate System: GCS_North_American_1983 Angular Unit: Degree (0.0174532925199433) Prime Meridian: Greenwich (0.0) Datum: D_North_American_1983 Spheroid: GRS_1980 Semimajor Axis: 6378137.0 Semiminor Axis: 6356752.314140356 Inverse Flattening: 298.257222101

REFERENCES

Stubley, M. 1989 Geology of the Spencer Lake area, parts of NTS 85 P/1, 2; Canada-NWT Mineral Development Agreement. EGS 1989-12.

TERMS OF USE

Information in this map is provided as a public service by the Government of the Northwest Territories. This information is made available "as is" and without warranty of any kind, either expressed or implied. The information may be used on the strict understanding that neither the Government nor its ministers, employees, agents shall be liable for losses or damages of any kind that may arise as a result of information provided by this compilation. This material, including copyright and marks under the Trademarks Act (Canada), unless otherwise indicated, is owned by the Government of Northwest Territories and protected by intellectual property law.

Material may not be used or reproduced for commercial purposes without the prior written consent arranged by the Manager, Public Affairs and Communications. If it is reproduced or redistributed for non-commercial purposes, Government of the Northwest Territories copyright is to be acknowledged.

The Northwest Territories Geological Survey welcomes corrections or additional information from users. See documentation accompanying the digital data. This publication is available for free download through Gateway (http://gateway.nwtgeoscience.ca/).

OPERATIONAL REQUIREMENTS

Contains files produced using the following software: ESRI® ArcGISTM 10.2.2 (shape files, File Geodatabase, MXD file) Microsoft Excel 2010 (.xlsx)

All PDF Files may be viewed using Adobe Reader. The most recent version of Adobe Reader and the correct version for your system may be downloaded from <u>http://www.adobe.com</u>.

TRADEMARKS

Adobe®, Acrobat®, and Reader® are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

ESRI®, ArcMapTM, ArcSDETM, ArcGISTM, and ArcReaderTM are trademarks, registered trademarks, or service marks of ESRI in the United States, the European Community, or certain other jurisdictions.

For more information please contact:

Contact for Scientific Content: Stubley Geoscience Ltd Michael Stubley, Ph.D., P.Geo. 158 Toki Rd. Cochrane, AB T4C 2A2 (403) 855-4042 Email: mike@stubley.ca

Doug Irwin Manager - Geomatics & IT Northwest Territories Geological Survey PO Box 1320 4601B 52 Avenue Yellowknife, NT X1A 2R3 (867) 765-6612 Email: <u>doug_irwin@gov.nt.ca</u>

Recommended Citation:

Stubley, M., Marklund, J., and Irwin, D., 2015: Geology of the Spencer Lake area, parts of NTS 085 P/1 & 2 (a digital re-release of EGS 1989-12 in ESRI® and Adobe® formats); Northwest Territories Geological Survey, Open Report 2015-006.