

Redbank Exploration Project NT
25k Geological Map Series
SCP-Spring Creek Prospect
Geographic Information Systems

A geographic information system (GIS) is a computer system for capturing, storing, checking, and displaying data related to positions on Earth's surface.

SCP-Spring Creek Prospect 2,523 km²

Geological mapping is fundamental to any exploration project.

Effective mineral exploration requires an in-depth understanding of the lithological and structural controls of mineralisation.

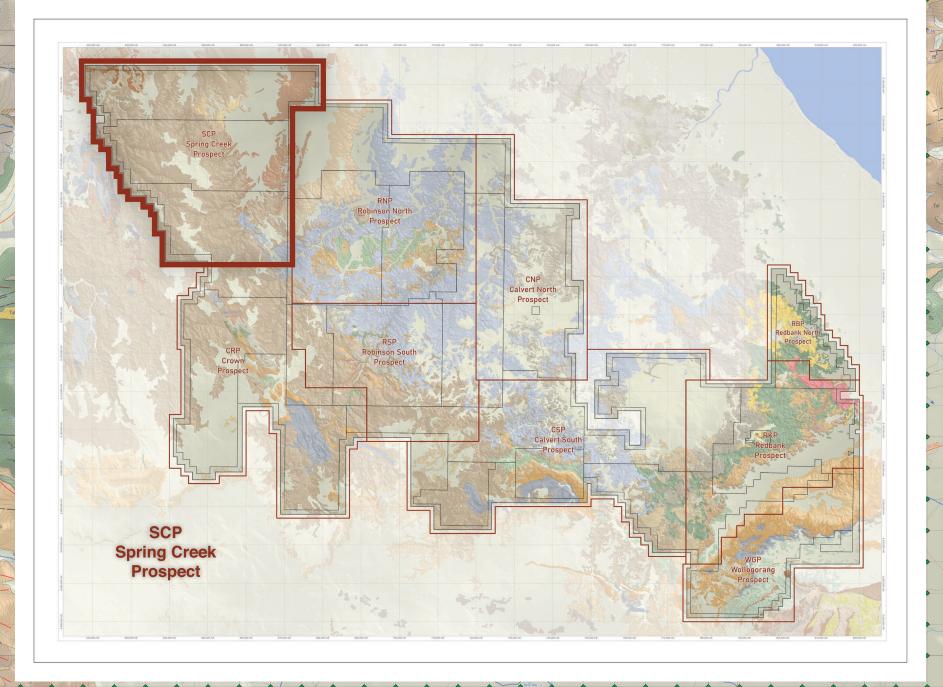
These insights must be gained through geological mapping at the early stages of the exploration program. Mapping is a cost-effective exploration tool and a project-generative process that delivers tangible benefits to all exploration programs.

A good geological map not only provides focus to an exploration program, it also clearly communicates the economic potential of a project to stake holders. Geologists strive to know the composition and structure of Earth matter and depict information in GIS format. This provides basis for comparisons and facilitates analysis to offer results that can benefit our future.

The Redbank GIS team are currently focused around the area of Digital Mapping.

We understand that at the heart of any Geographical Information System (GIS) is the map database. The efficiency of the GIS is therefore related to the accuracy and reliability of the related map data.







Redbank Exploration Project NT 25k Geological Map Series **SCP-Spring Creek Prospect** Contents - GIS Layers & Images

- SCP-Spring Creek Prospect Regional location SCP-Spring Creek Prospect 2,523 km2
- Contents
- SCP-Spring Creek Prospect Map Book content.
- **Exploration Licences**
 - The SCP-Spring Creek Prospect covers several exploration licences, the mapping has included a 2km buffer zone around the CSP-Exploration Licence area
- - SCP-Spring Creek Prospect digitisation and attribution of Geological layers available in the exploration folder.
- Hydrocarbons Map
 - Hydrocarbon classifications have been completed by John Beeson, these layers are fully attributed and available on our server for further investigations
- - The highest quality satellite imagery for the SCP, pix50cm World Imagery tiles have merged and then clipped to the SCP prospect boundary
- Digital Elevation Model (DEM)
 - This DEM is available in the workspace, there has been a contour layer extracted at 5m intervals, this DEM is also available for the "Discover 3D" module within MapInfo
- Hydrology and 2021 Stream Sediments
 - Detailed hydrology, Rivers, Creeks and Catchment layers are fully attributed and these layers have been supplied as individual catchment areas, as well as a combined hydrology
- 2021-Stream Sediments Heatmap Cu-ppm
 71 Stream Sample locations., A MapInfo Heatmap layer has been extracted for the Cu-ppm layer.
- NTGS-Stream Sediments (Heat Map)
 - 337 Stream Sediment sample locations, NTGS Database
- Drillholes (Historical)
 - 2 Historical drillholes with Attribution table
- Geophysics Image (TMIRTP-Tilt)
 - Total magnetic intensity (TMI) -reduced to pole Tilt filter
- Geophysics Image (TMIRTP)
 - Total magnetic intensity (TMI) -reduced to pole
- Geophysics Image (TMIRTP-1VD)
 - Total magnetic intensity (TMI) -reduced to pole First vertical derivative
- Geophysics Image (KThUr-Ternary)
 - Ternary radioelement potassium(K)-thorium(Th)-uranium(U) channel data. The image is a red-green-blue (RGB) composite using a histogram-equalised colour-stretch for each of the three channel
- - Detailed Areas of Interest from John Beeson, Mat Cooper, 2021 stream sediments, NTGS and the digitising process (David Hantke).
- Areas of Interest (AEM-ET)
 - Regional Government and Historical Open File Airborne Electromagnetic (AEM) Early Time Channel AEM Composite (ET) Time Domain Surveys Only
- Areas of Interest (AEM-MT)
 - Regional Government and Historical Open File Airborne Electromagnetic (AEM) Middle Time Channel AEM Composite (MT) Time Domain Surveys Only
- Areas of Interest (AEM-LT)
 - Regional Government and Historical Open File Airborne Electromagnetic (AEM) Late Time Channel AEM Composite (LT) Time Domain Surveys Only
- - The SCP Mapinfo Workspace has been set-up and available in the RBK-Exploration Folder, this workspace is our Exploration Database Master for the Spring Creek Prospect



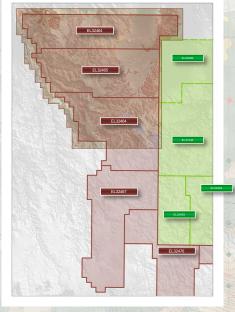




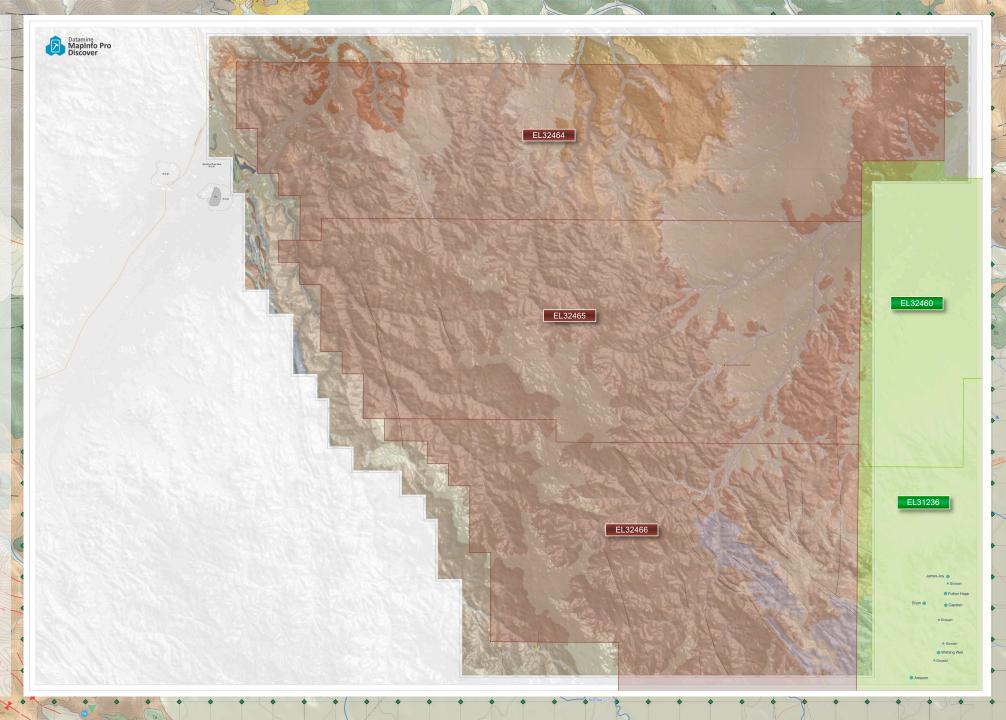
Redbank Exploration Project NT
25k Geological Map Series
SCP-Spring Creek Prospect
Exploration Licences

The SCP-Prospect covers several exploration licences, the mapping has included a 2km buffer zone around the SCP-Exploration Licence area

Granted
Application



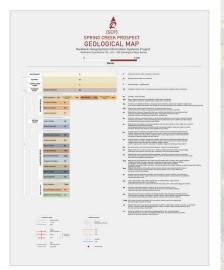






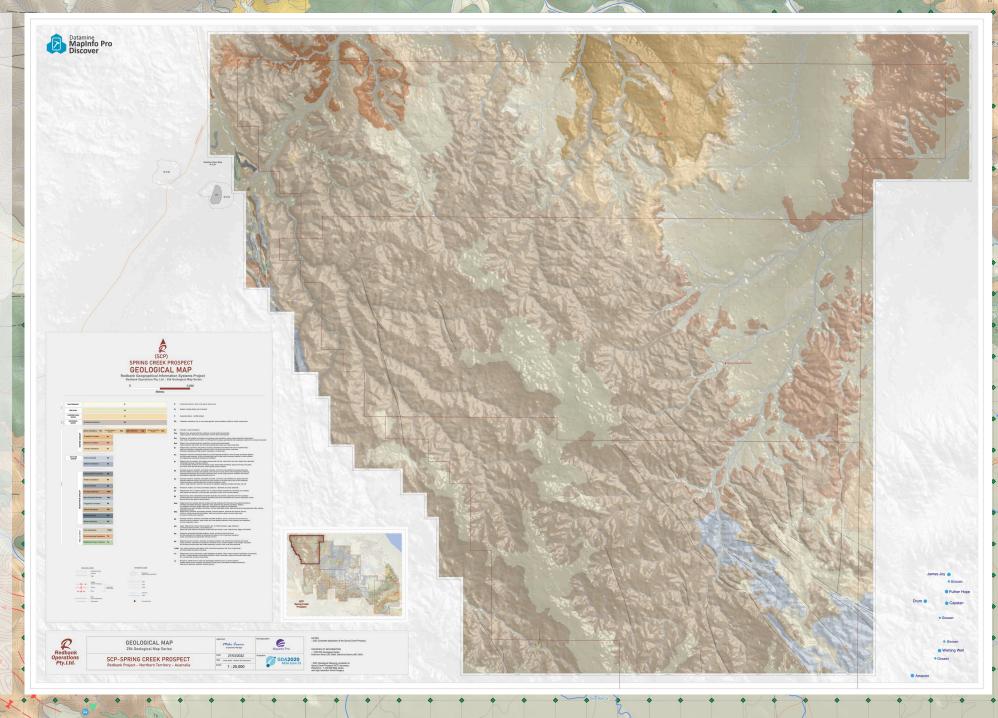
Redbank Exploration Project NT
25k Geological Map Series
SCP-Spring Creek Prospect
Geological Map

The SCP-Spring Creek Prospect has now been totally digitised and has been placed on our server. This map has a very high level of detail including Geology, Geo Physics, Satellite Imagery, Hydrology, Topography and DEM.



Geological units have been fully attributed in all individual layers, there is also a combined Geology layer with our Redbank codes and hydrocarbon classifications
Contact boundaries are approximate
and will be updated as field data becomes available.







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25k Geological Map Series
SCP-Spring Creek Prospect
Hydrocarbon Map

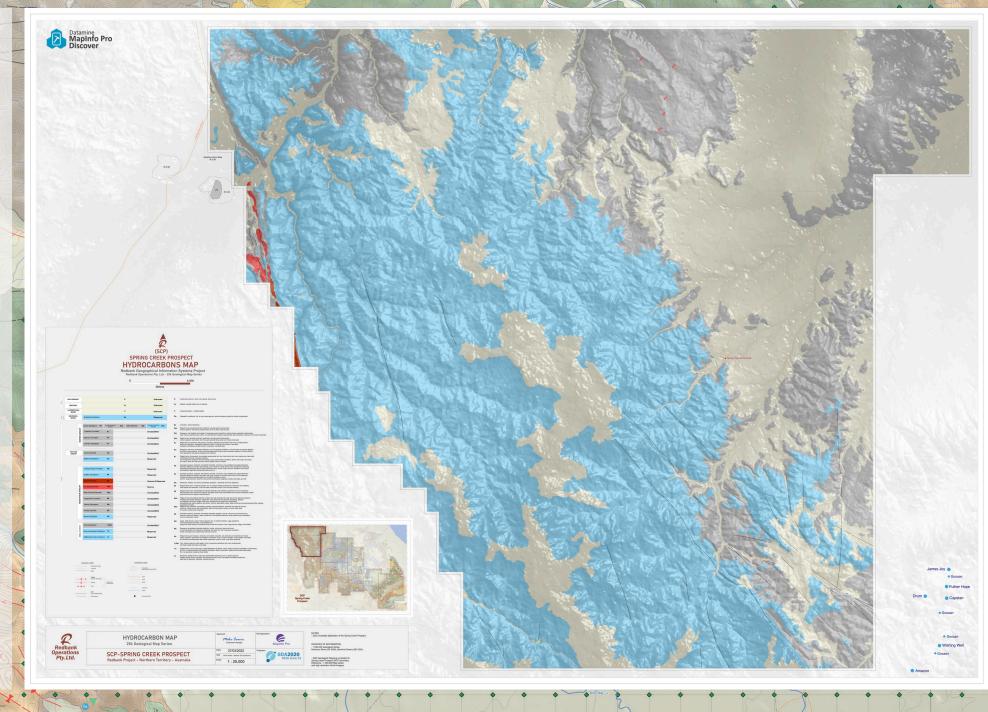
Hydrocarbon classifications have been completed by John Beeson, these layers are fully attributed and available on our server for further investigations.



Hydrocarbons have been fully attributed in the map database.

Contact boundaries are approximate and will be updated as field data becomes available







Redbank Exploration Project NT 25k Geological Map Series SCP-Spring Creek Prospect **Satellite Imagery**

The highest quality satellite imagery has been clipped to SCP boundary and available on our







Satellite Imagery



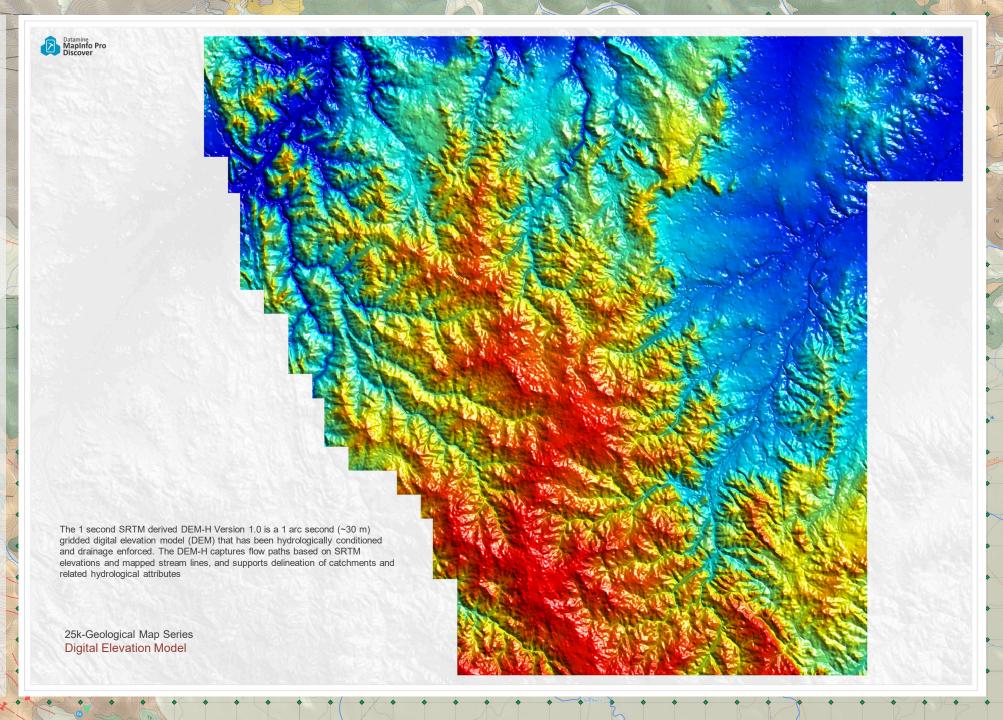


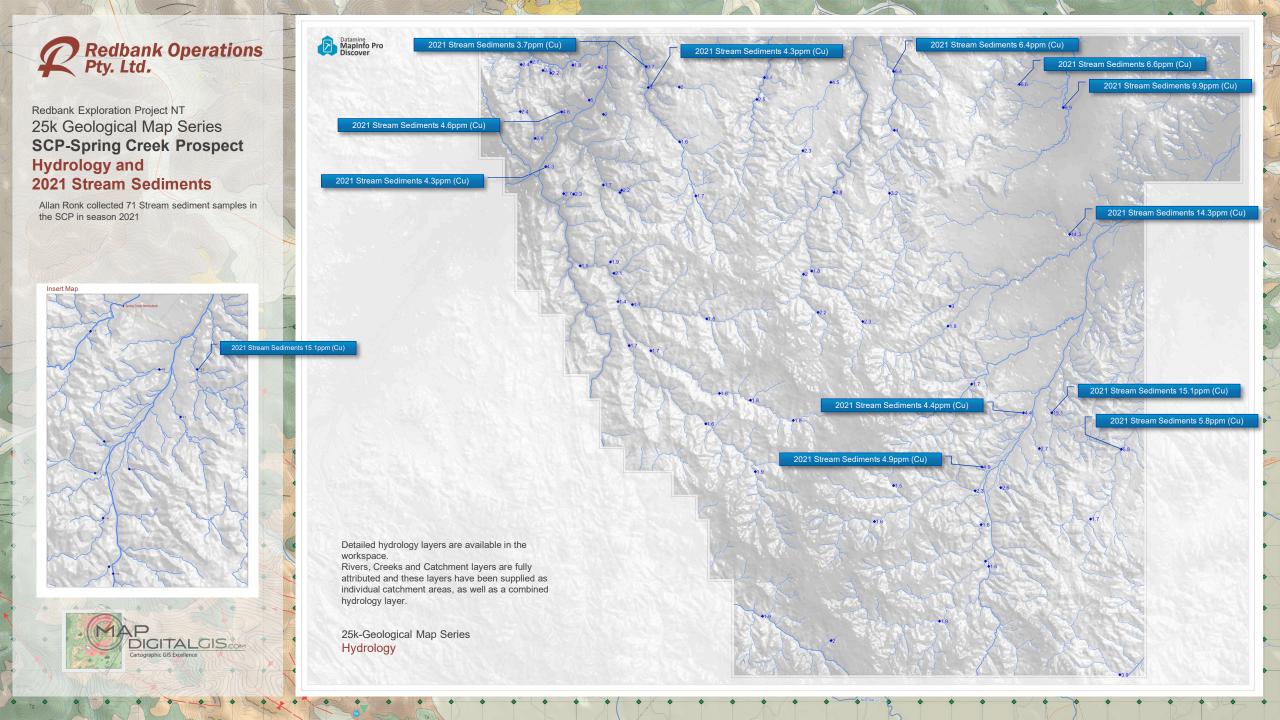
Redbank Exploration Project NT
25k Geological Map Series
SCP-Spring Creek Prospect
Digital Elevation Model

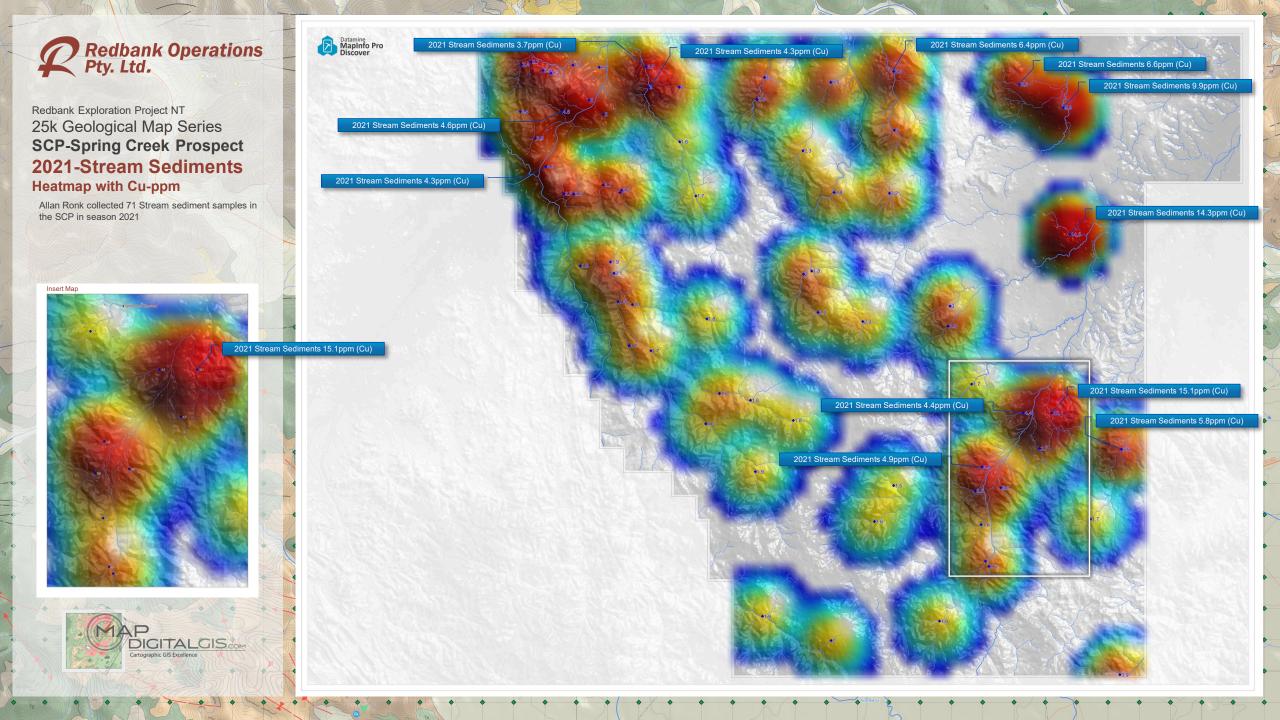
This DEM is available in the workspace, there has been a contour layer extracted at 5m intervals, this DEM is also available for the "Discover 3D" module within MapInfo.







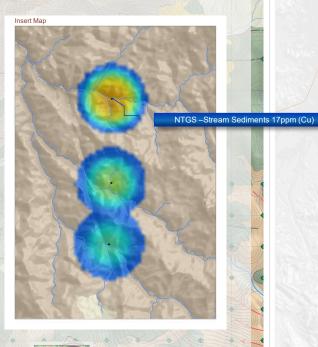




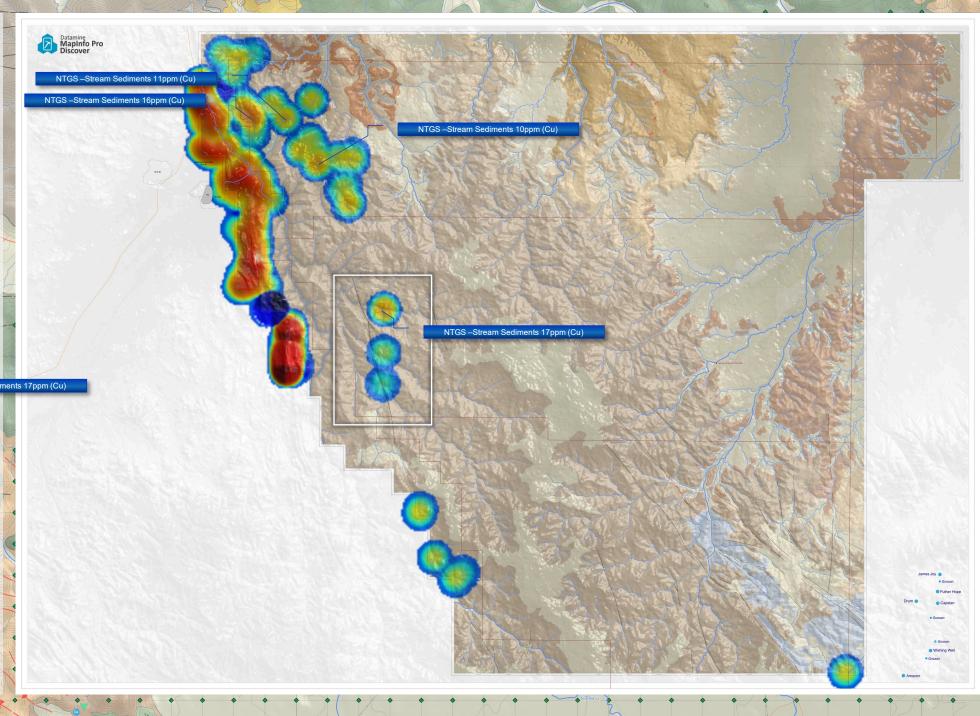


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SCP-Spring Creek Prospect
NTGS-Stream Sediments

337 Stream Sediment samples available in the SCP from the NTGS database



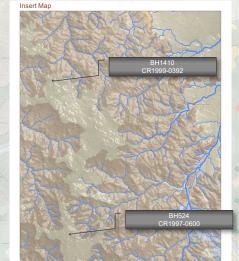




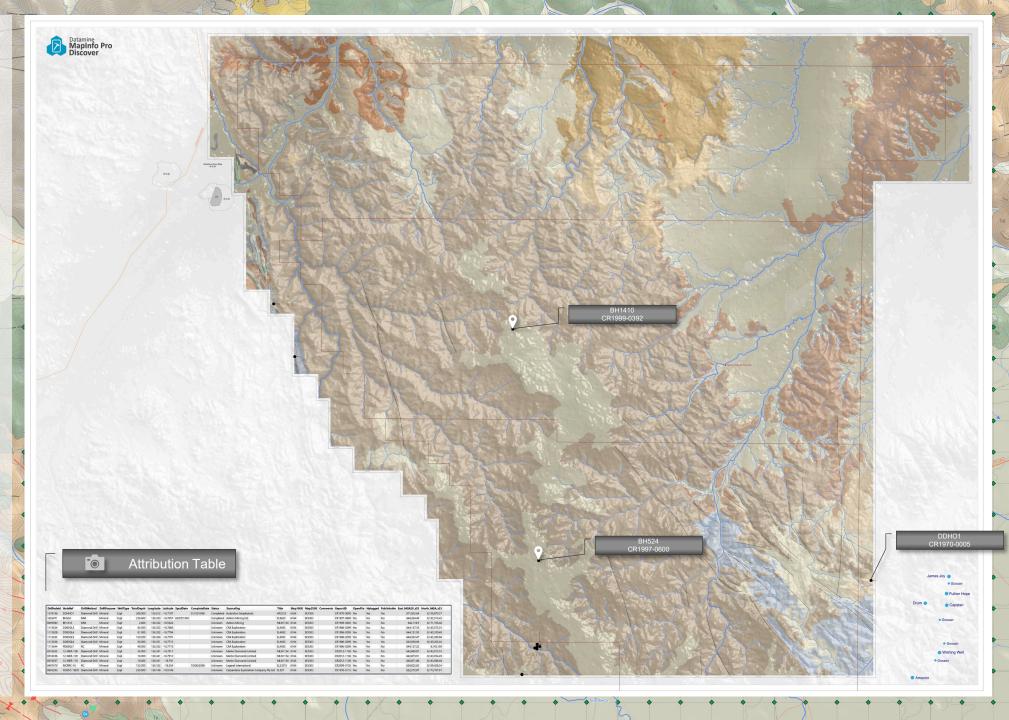


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Drillholes (Historical)

There are 2 historical drillholes in the SCP exploration licence area (Please see table contents for details)



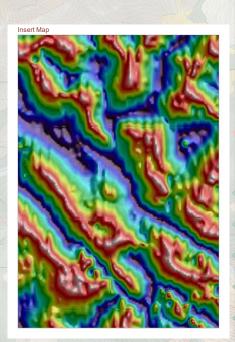




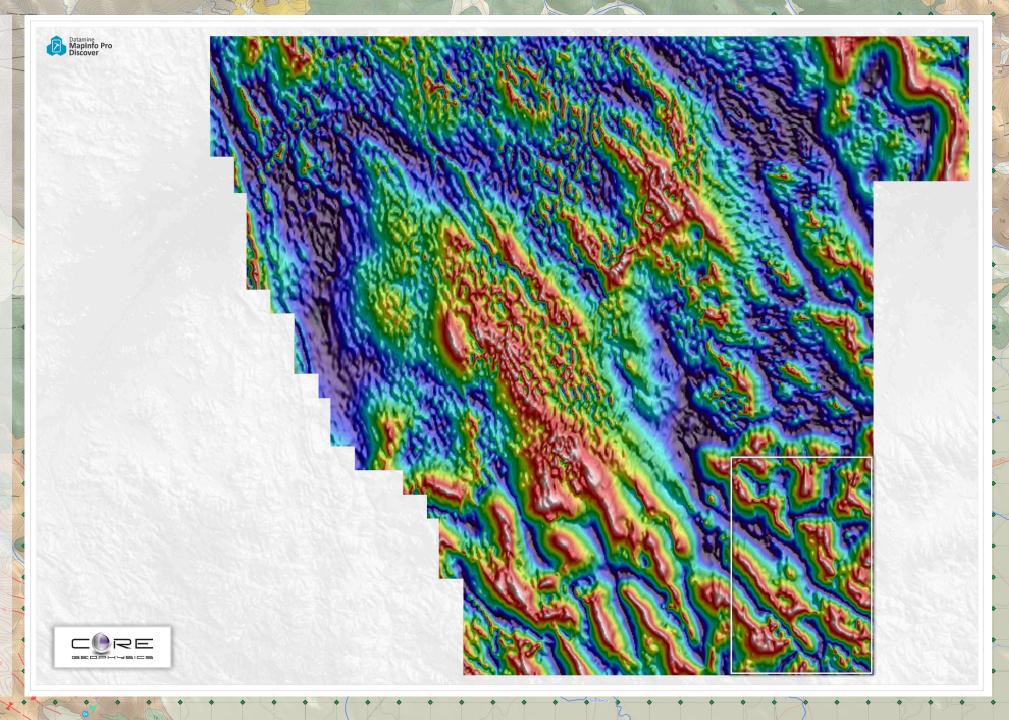


Redbank Exploration Project NT
25k Geological Map Series
SCP-Spring Creek Prospect
Geophysics Images

Geophysics Images
Derived from NTGS Government Aeromagnetic Surveys
Total magnetic intensity (TMI) - reduced to pole
Tilt filter





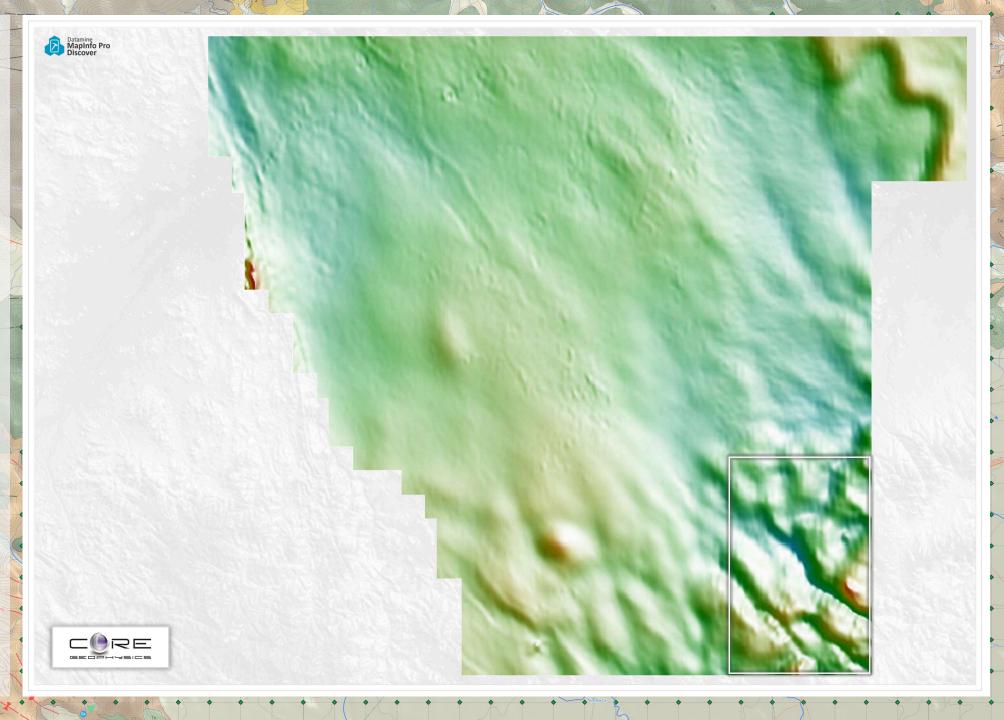




Redbank Exploration Project NT 25k Geological Map Series **SCP-Spring Creek Prospect** Geophysics Images
Derived from NTGS Government Aeromagnetic Surveys
Total magnetic intensity (TMI) - reduced to pole







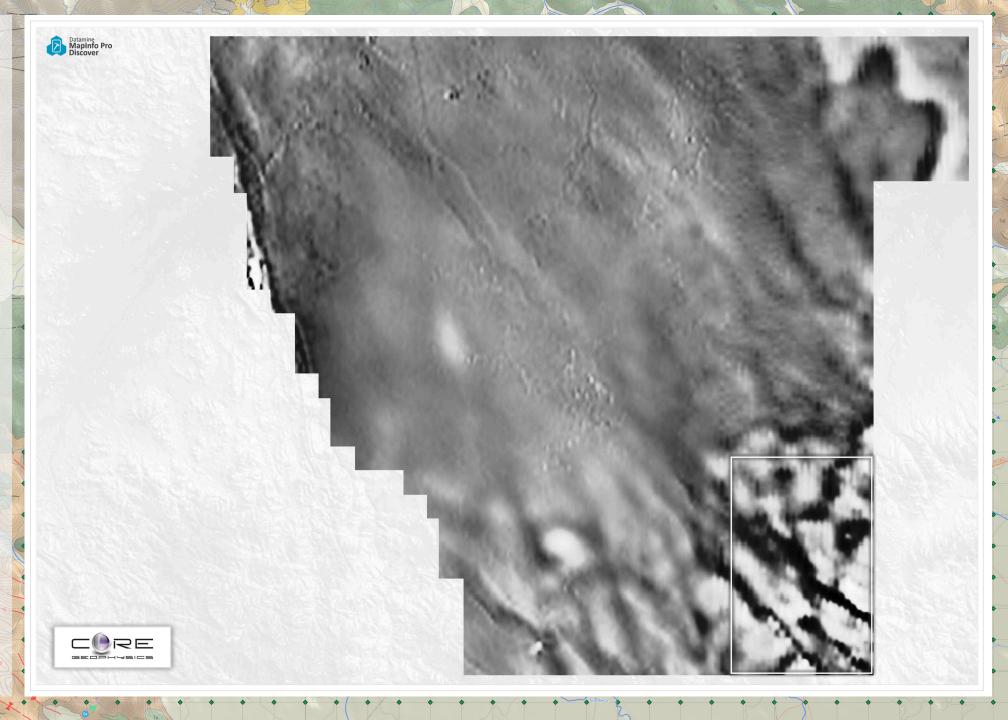


Redbank Exploration Project NT
25k Geological Map Series
SCP-Spring Creek Prospect
Geophysics Images

Geophysics Images
Derived from NTGS Government Aeromagnetic Surveys
Total magnetic intensity (TMI) - reduced to pole
First vertical derivative







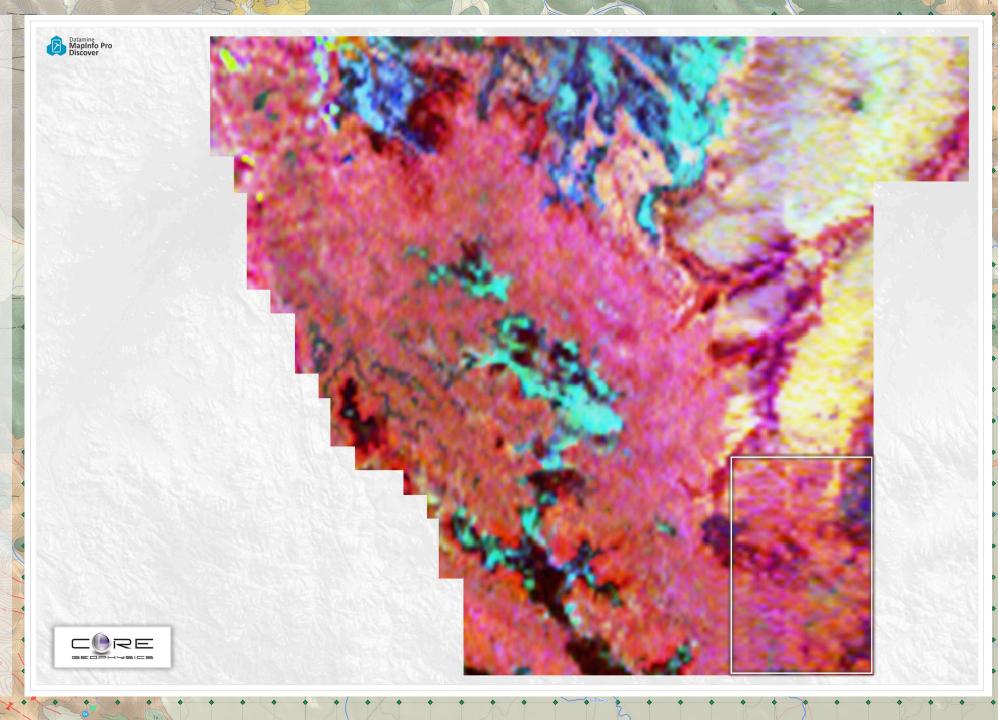


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Geophysics Images

Derived from NTGS Government Aeromagnetic Surveys Ternary radioelement potassium(K)-thorium(Th)-uranium(U) channel data. The image is a red-green-blue (RGB) composite using a histogram-equalised colour-stretch for each of the three channels.









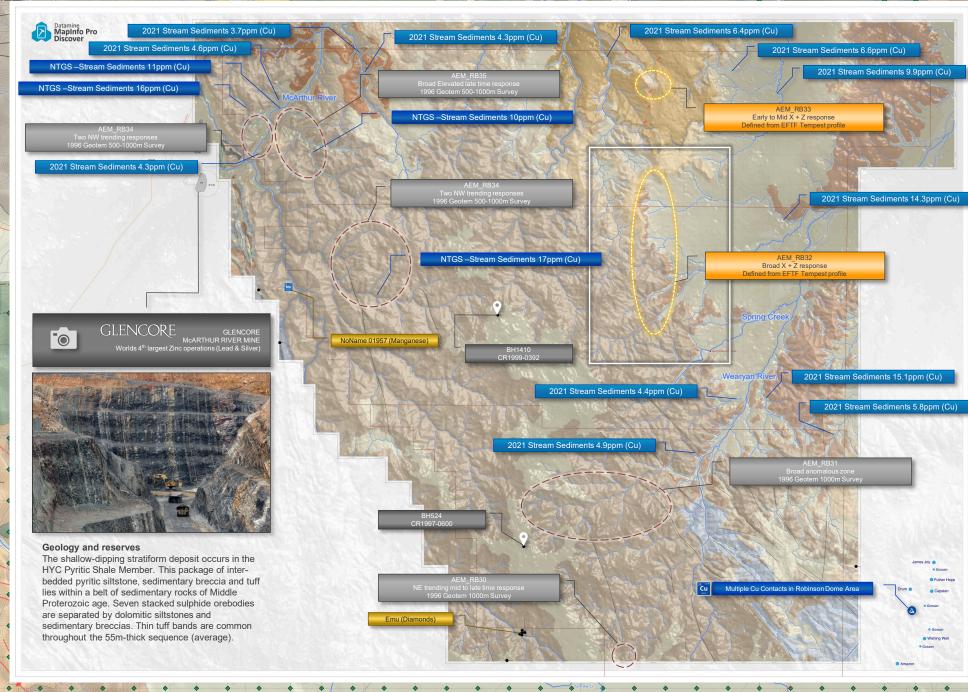
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Areas of Interest (AOI)

AOI's available in the workspace include

- Airborne Electromagnetics (Mat Cooper)
- 2021-Stream Sediments (top 12 -Cu-ppm)
- NTGS Stream Sediments
- NTGS Mineral Occurrences

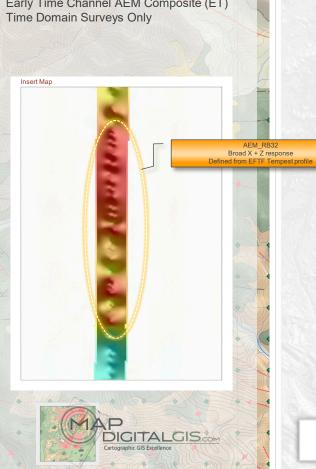


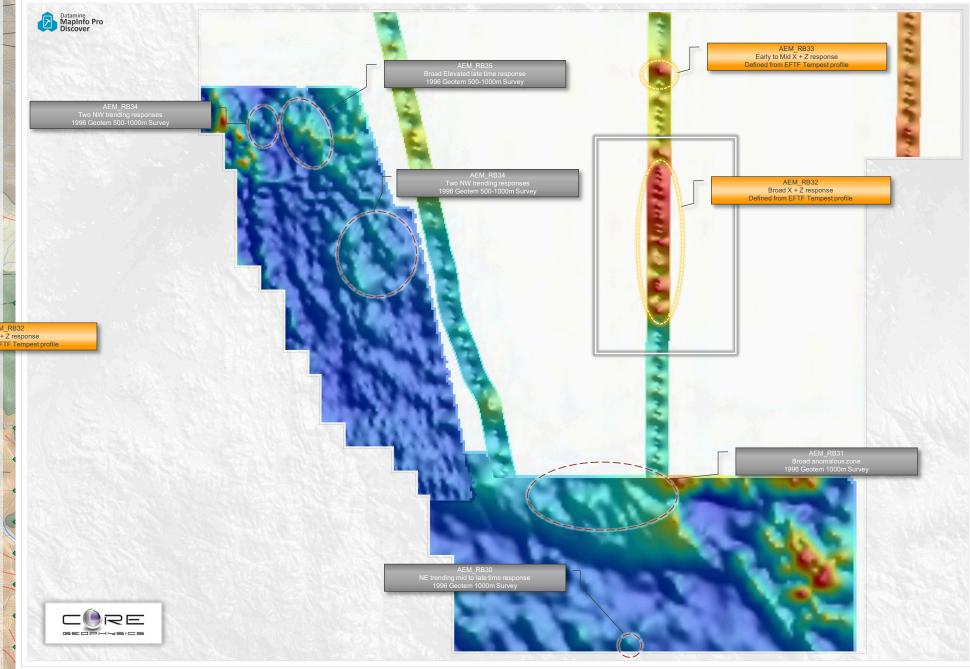


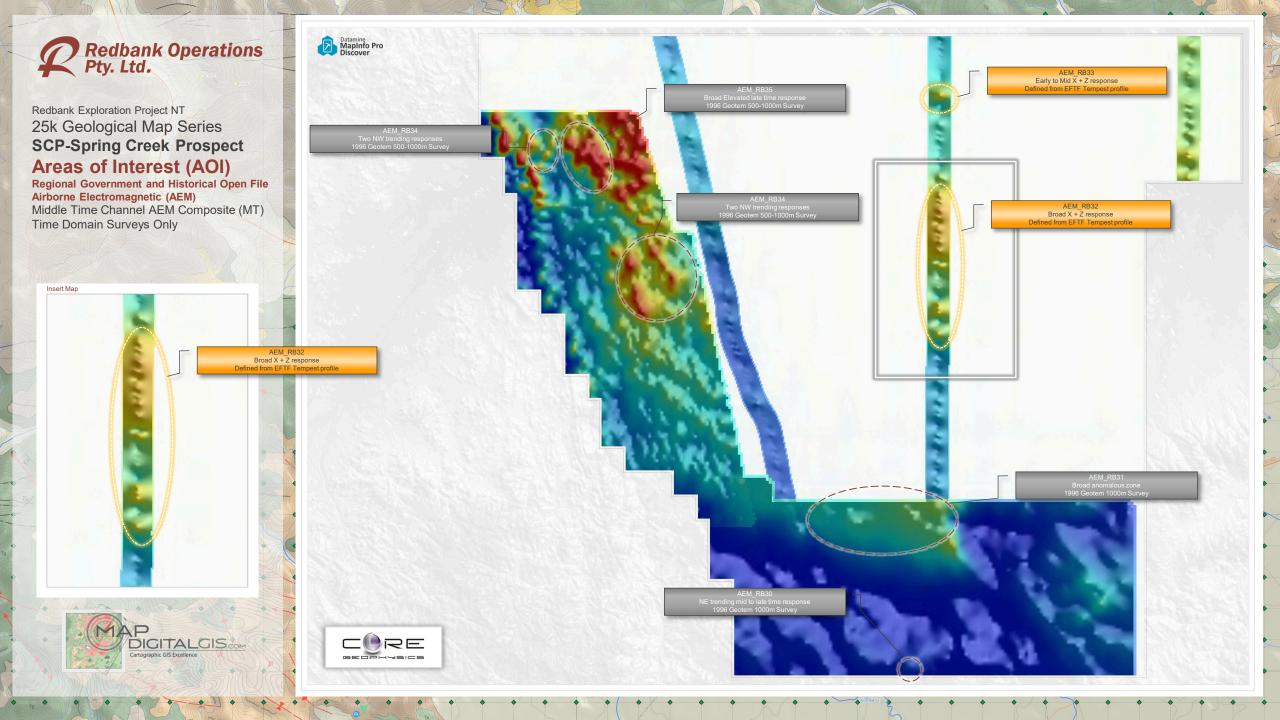




Regional Government and Historical Open File Airborne Electromagnetic (AEM) Early Time Channel AEM Composite (ET) Time Domain Surveys Only







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MapInfo Workspace

The SCP MapInfo Workspace has been set-up and available in the **RBK-Exploration** Folder, this workspace is our base dataset for the SCP

