User Manual

Mineral Tenure Map Viewer – User Manual

Version 1.0

For:

Government of Northwest Territories - Lands

Bv

Government of Northwest Territories Centre for Geomatics

and

Caslys Consulting Ltd.

Unit 102A, 6683 Oldfield Road Saanichton, B.C., V8M 2A1

TABLE OF CONTENTS

1.0	INTRODUCTION	3
1.1	Overview	
1.2	Getting Started	3
1.3	Quick Reference Guide	
1.4	Common tasks	
1.5	Map Navigation	7
1.6	Common Tools	
1.7	Map Mark-up Tools	10
1.8	Coal Exploration Licenses	10
1.9	Mineral Claims	11
1.10	Mineral Leases	13
1.11	Prospecting Permits	14
1.12	Advanced Search by Map Layer	15
1.13	Global Search	
1.14	Managing Search Results and Tabular Information	18
2.0	CONTACT INFORMATION	19

1.0 INTRODUCTION

1.1 Overview

The Mineral Tenure Map Viewer allows users to browse online map information and real-time data maintained by the GNWT MITS (expand acronym) database. This help document provides an introduction to the components of the Map Viewer and how to use them.

The Map Viewer is designed to be used with minimal technical support through intuitive and standard web mapping functions. The easiest way to familiarize yourself with the Map Viewer is to review the *Quick Reference Guide* (on the next page) and then explore the website by trying out each tool. If further information is required, It is recommended to use the full User Manual as a reference with details outlining each specific map function.

The Map Viewer *Home (About)* page is found on the left side of the map. It provides basic information about the website and an introduction to the functions and support documentation for the *Mineral Tenure Map Viewer* application.



Pay attention to these symbols for important guidance.

1.2 Getting Started

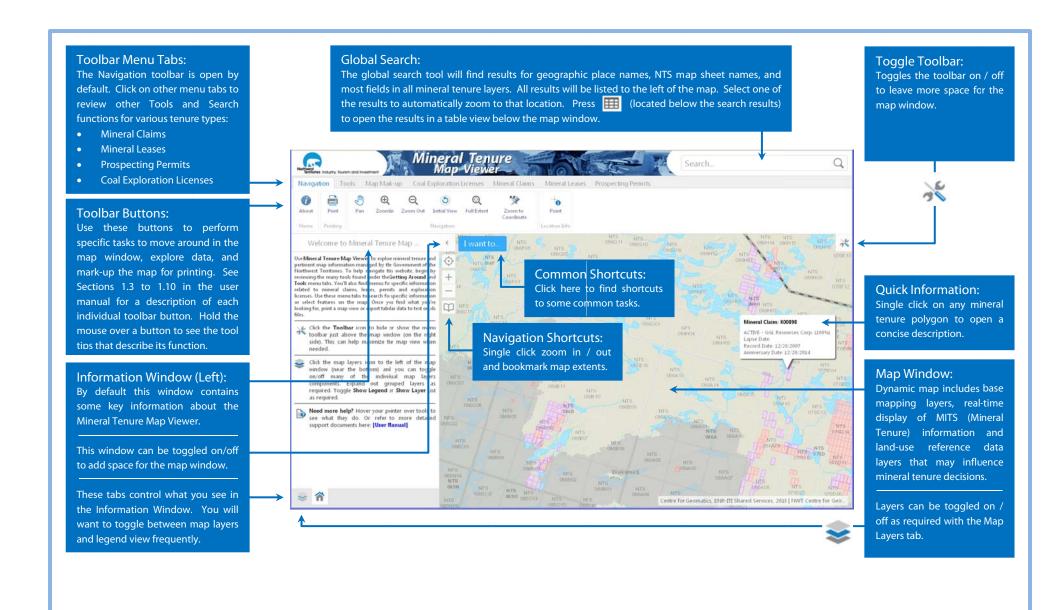
While using the Map Viewer, explore information in the map window while also opening dialog windows with search results and tables related to the mapped information. View maps and tables online or export tabular data and maps to common formats for use in spreadsheets, e-mail, or documents. For GIS users, functions exist to clip data to a desired extent and export map data for use in your desktop applications.

Keep in mind these common characteristics of the application to help you get started quickly:

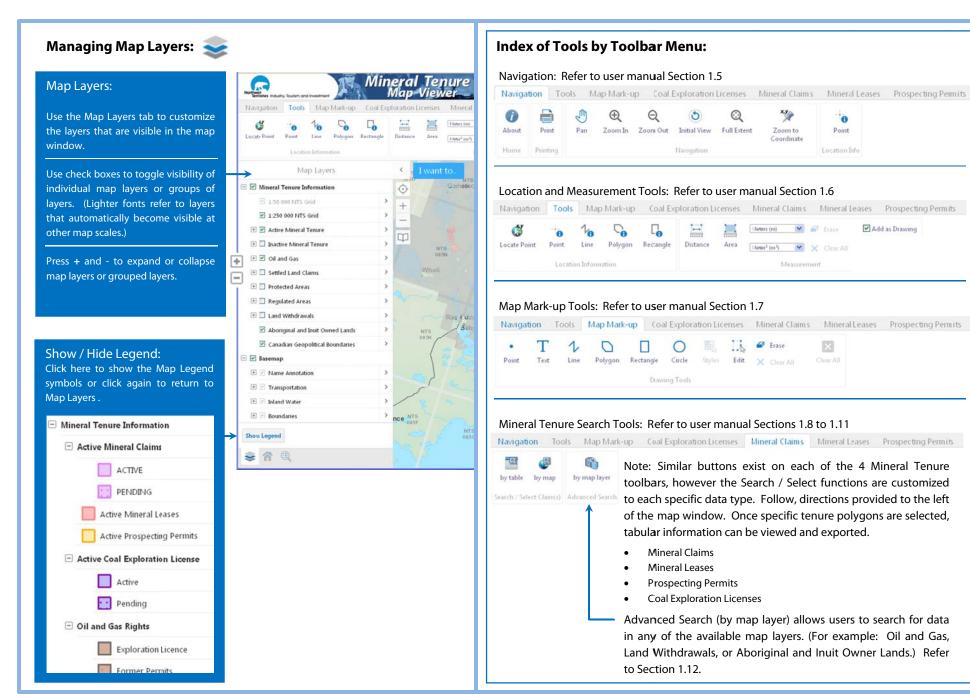
- Read the welcome message left of the map to get a quick introduction to Mineral Tenure Map Viewer.
- Use the **Toolbars** and *I want to...* shortcuts to complete most tasks.
- Maximize the **Map Window** when needed by collapsing the **Information Window** left of the map window and/or the toolbar above the map window.
- Use the tabs on the bottom-left of the Information Window to view map layers or to show the map legend and also to see various tool dialog messages or search results.
- This User Manual is accessible from the **About** page.
- Hover the mouse over the tools to view **Tool Tips** that provide a description of each button.

Review the Quick Reference Guide on the following pages.

Quick Reference Guide



Quick Reference Guide

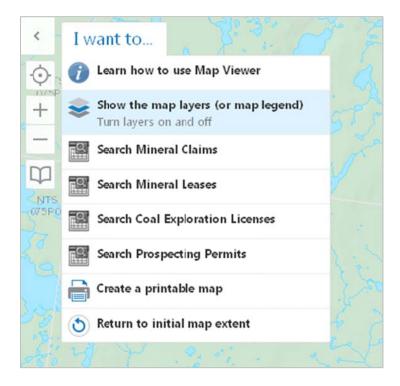


1.4 Common tasks

The information contained within this section outlines key ways to complete common tasks using the Mineral Tenure Map Viewer.

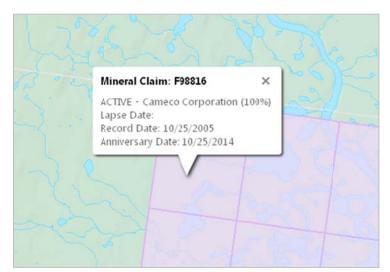
I Want To...

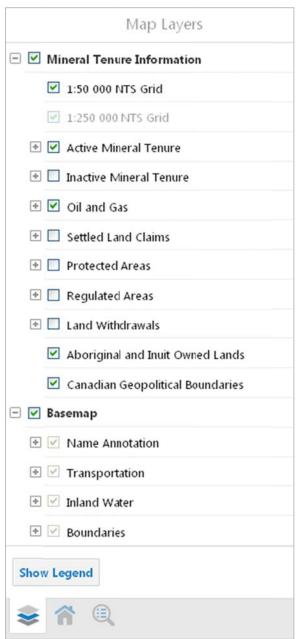
Use this menu located inside the map window to quickly find and launch common tasks.



To find basic information about any mineral tenure polygon, click on it to open a *Map Tip* containing the key information specific to a Mineral Lease, Mineral Claim, Prospecting Permit, or Coal Exploration Lease. Use the Search tools for these layers found on each associated toolbar tab or the *Global Search* located in the top right-hand corner of the window to find more information.

Tenure polygons and many other data layers have labels that become visible as the map is zoomed in.

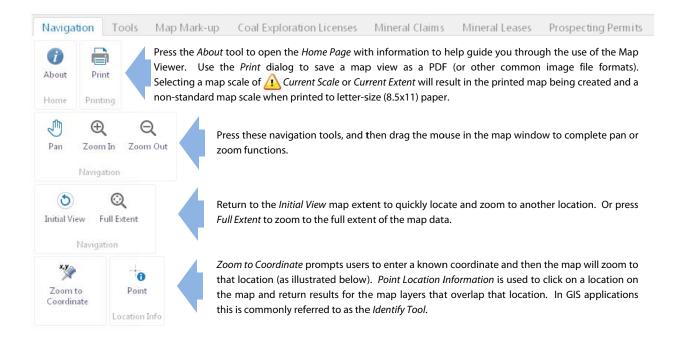




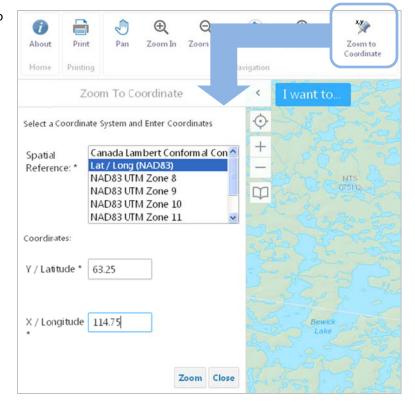
Press the *Map Layers* tab (bottom left corner) to customize the map by turning on/off individual map layers or grouped layers. Layers are grouped primarily as 'Basemap' layers (below) with 'Mineral Tenure Information' above. Several map layers are turned off by default but may prove to be valuable for mineral tenure planning. Toggle on/off the *Map Legend* to see cartographic symbols.

1.5 Map Navigation

The *Navigation Toolbar* includes several tools to help zoom to an area of interest or browse the mineral tenure landscape cartographically. Review the following section to learn about key ways to move around in the map view and find more information concerning particular layers at the selected location.

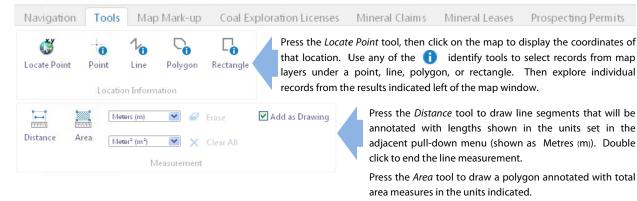


The Zoom to Coordinate tool is used to pan the map directly to a specific coordinate that users enter. Be sure to select the appropriate Spatial Reference (Coordinate System) from the available choices. Then enter the pair of coordinate values and press Zoom to complete the task.



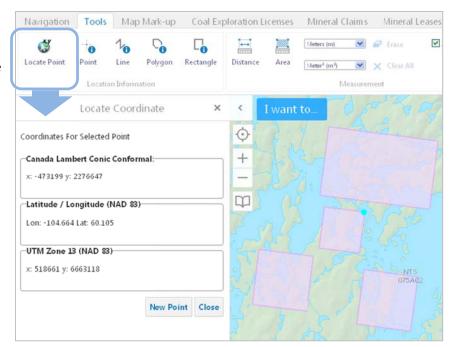
1.6 Common Tools

The *Tools* Toolbar includes tools to measure distances or areas, and view the information of map features at any point location or larger area of interest on the map.



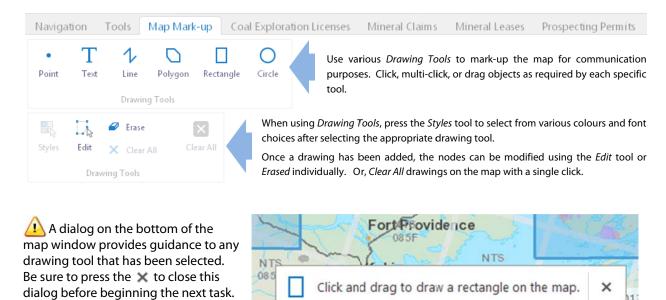
Erase individual measurements or *Clear All* measurements from the map. Unclick the *Add as Drawing* dialog to make measurements without map mark-up.

When using the Locate Point
Tool, click on a location within
the map and coordinates are
displayed in common coordinate
systems as illustrated below.
UTM (North American Datum
1983) coordinates are
automatically assigned to the
correct UTM zone. Press New
Point to display another location
or Close to continue with
another task.



1.7 Map Mark-up Tools

The Map Mark-up toolbar includes drawing tools to add points, lines, polygons and text annotation to the dynamic map. This can be useful document ideas prior to printing (.PDF) or exporting the map view as an image (.GIF, .JPG, .PNG). Graphics can be added, symbolized, altered, labeled, or erased prior to printing. Due to the nature of web mapping, these graphics are only intended to be temporary and can only be saved as an image or PDF map output using the *Print* tool. Often, mark-up tools can serve to mark an area of interest to a map that can be shared with colleagues or other stakeholders.



1.8 Coal Exploration Licenses

The Coal Exploration Licenses toolbar includes specific tools to search for information pertaining to the coal tenure system. Unlike other Mineral Tenure map layers, Coal Exploration Licenses are not connected through the MITS database but through regular updates managed by the NWT Centre for Geomatics. In addition this toolbar includes an Advanced Search wizard that allows users to develop custom queries to search for information specific to any map layer in the map legend (Refer to Section 1.12 for detailed guidance to use the Advanced Search by map layer).



Press the Search / Select License(s) by table button to open the search dialog. Alternatively use by map and follow the guidance to the left of the map window to interactively select tenure information on the map.

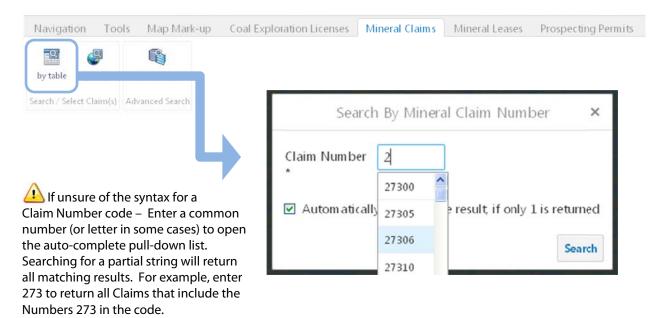


If you are unsure of the syntax for a Coal Exploration Lease code – Enter a common number (or letter in some cases) to open the auto-complete pull-down list.

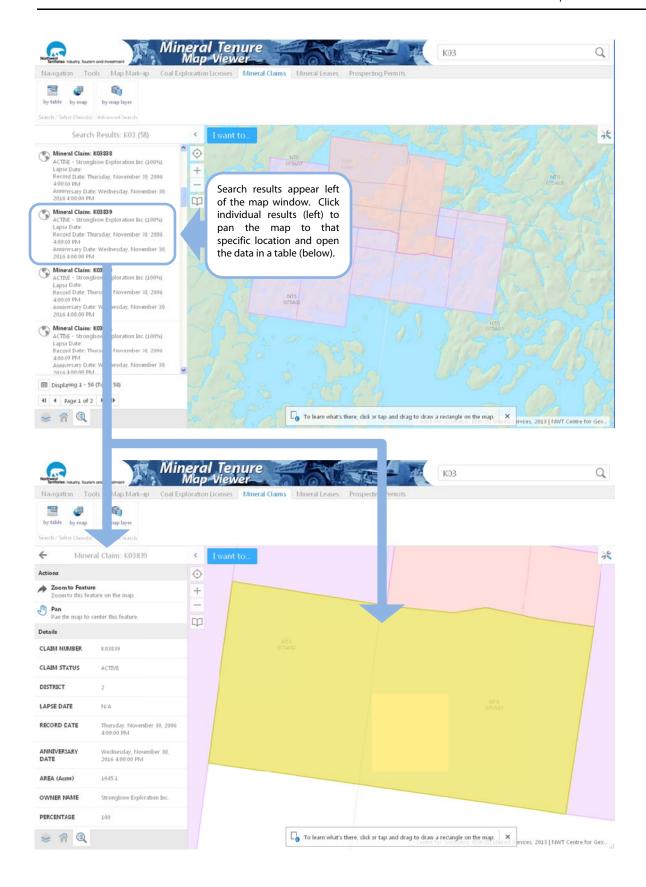
1.9 Mineral Claims

The *Mineral Claims* toolbar has specific tools to search for real-time information pertaining to the claims data managed in the MITS database. In addition, this toolbar includes an Advanced Search wizard that allows users to develop custom queries to search for information specific to any map layer in the map legend (Refer to Section 1.12 for detailed guidance to use the *Advanced Search* by map layer).

Press the Search / Select Claim(s) by table button to open the search dialog. Alternatively use by map and follow the guidance to the left of the map window to interactively select tenure information on the map.

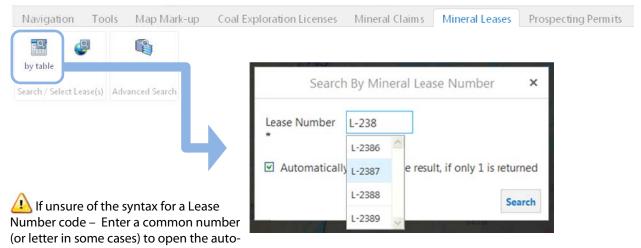


Use the Global Search dialog on the top right of the map window to search for mineral claims, however using the tools on the Mineral Claims Toolbar will simplify search results by not including search results from other map layers. The Global Search approach is illustrated on the following page. Note the K03 value entered in the top right search field and the 58 Search results that match K03 in the window to the left of the map. These results may also include items that are not mineral claim codes. These results will remain on a tab to the left of the map window until another search is completed. Click a specific result to open the database information pertaining to that location and automatically zoom the map to that location. Press the left arrow on the information panel to return back to the list of search results.



1.10 Mineral Leases

The *Mineral Leases* toolbar has specific tools to search for real-time information pertaining to the license data managed in the MITS database. In addition, this toolbar includes an *Advanced Search* wizard that allows users to develop custom queries to search for information specific to any map layer in the map legend (Refer to Section 1.12 for detailed guidance to use the Advanced Search by map layer).

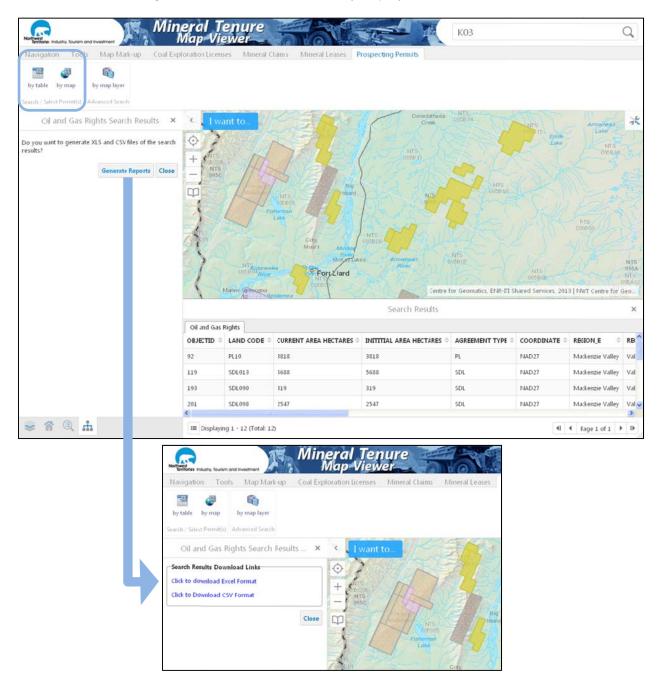


complete pull-down list. Searching for a partial string will return all matching results. For example, enter L-238 (or just 238) to return all Claims that include those numbers in the code.

Use the Global Search dialog on the top right of the map window to search for mineral claims, however using the tools on the Mineral Leases toolbar will simplify search results by not including search results from other map layers. The Global Search approach is illustrated on the previous page. Note the K03 value entered in the top right search field and the 58 Search results that match K03 in the window to the left of the map. These results may also include items that are not mineral lease codes (as illustrated by the example that has found mineral claims, not leases). These results will remain on a tab to the left of the map window until another search is completed. Press on a specific result to open the database information pertaining to that location and automatically zoom the map to that location. Press the left arrow on the information panel to return back to the list of search results.

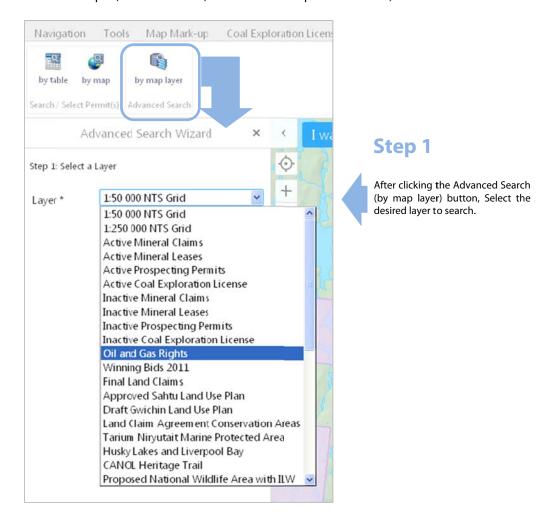
1.11 Prospecting Permits

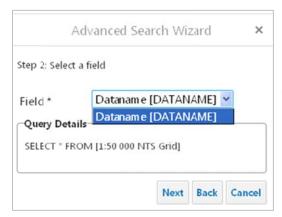
The Prospecting Permits toolbar has specific tools to search for real-time information pertaining to the permit data managed in the MITS database. In addition, this toolbar includes an *Advanced Search* wizard that allows users to develop custom queries to search for information specific to any map layer in the map legend (Refer to Section 1.12 for detailed guidance to the Advanced Search by map layer).



1.12 Advanced Search by Map Layer

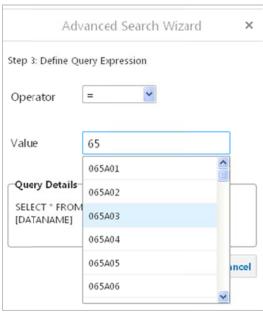
An Advanced Search (by map layer) tool is found on each of the four operational mineral tenure toolbars (Coal Exploration Licenses, Mineral Claims, Mineral Leases, and Prospecting Permits). Each of these four buttons launches the same Advanced Search Wizard which allows users to develop custom queries to search for information for any map layer in the map viewer. Common uses could include searching for oil and gas tenure information, specific land withdrawals, regulated areas, or to search mineral tenure files by a data field other than the unique (license number, claim number or permit number) codes.





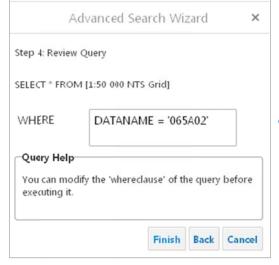
Step 2

Select the field from the map layer that contains the data that is to be searched. Notice that the Query Details window illustrates the SQL query string as it is developed by the query wizard.



Step 3

Select the operator and search value for the query. The value can include a selection of a specific name (eg. 065A03) or just use the entered text (eg. 65) to return all results with those values contained in the field. Notice that the Query Details window now illustrates the revised SQL query string as it is developed by the query wizard.



Step 4

Click Finish if satisfied with the query statement or modify the WHERE clause of the SQL statement to develop more complex queries.

1.13 Global Search

The search window on the top right of the application banner is designed to search many key map layers to quickly locate information when the search string is known. Specifically, place names, NTS map sheet codes, land withdrawals and protected areas can be entered to quickly find an area of interest. Partial names or codes can be entered to return a list of suitable results.



The following map layers are searchable using the Global Search.

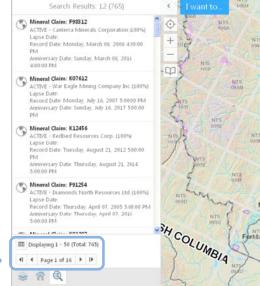
- Place Names (Including communities, lakes and rivers, geographic features)
- NTS Mapsheets (Including 1:50,000 and 1:250,000)
- Mineral Tenure polygons (Including Claims, Leases, Licenses and Permits)
- Oil and Gas
- Settled Land Claims
- Protected Areas
- Regulated Areas
- Land Withdrawals
- Aboriginal and Inuit Owned Lands

Global Search can act as a simple way to find mineral tenure results as well. The search example shown right demonstrates this process.

Keep in mind that Global Search does not link to the Generate Reports tools (see Section 1.11) that export result to .XLS and .CSV formats. Users must carefully highlight the table, copy, and paste into applications like MS Excel. (Be sure to include the headings as well.)

In this example the user entered 12 in the global search field and has returned 765 results with 50 results shown per page over 16 pages. Clicking any single result record will jump to that individual result, however users can also open the full set of results in table views by clicking on the open tables icon.

Click to open Global Search results in table view with each map layer shown on an individual table tab.





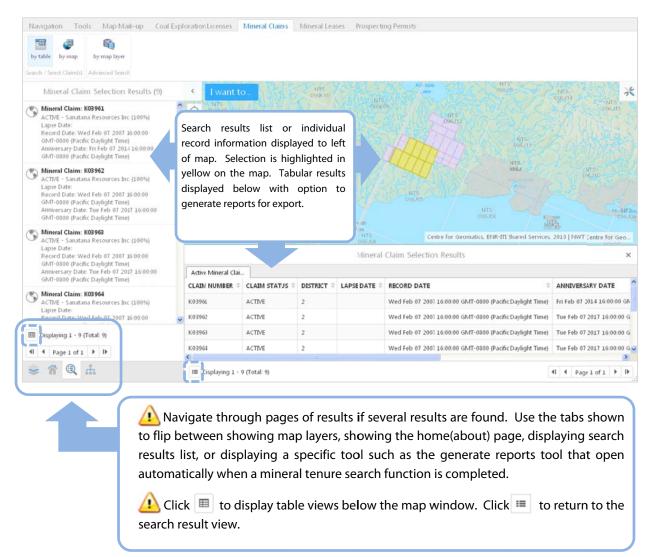


Highlight results in the table shown above to copy and paste information into other applications.

1.14 Managing Search Results and Tabular Information

Searching for mineral tenure information will display a list of matching results that are displayed in the information window to the left of the map window (as shown below). The global search function will return any number of matched results and you can click individual results to select and view the information for that record. Global search is currently not designed to generate tables or results for export, although tabular information can be copy and pasted into MS Excel or similar applications (Review Section 1.13 for further instructions). Use the specific searches or selection tools on each of the tabs for Licenses, Claims, Lease, or Permits to select multiple results (or multiple polygons) and then view tabular data which can then be exported to your desktop. The image below illustrates how a Mineral Claim search displays data in 3 places:

- 1. Search results listed to the left of the map window. Click these results to zoom to individual polygons on the map.
- 2. Search results are formatted as a single table below the map window. You can scroll through the data to locate specific information of interest or click the Generate Reports button that automatically opens to the left of the map window. The reports that are generated can be exported to XLS or CSV formats for use in application such as MS Excel.
- 3. Search results are also highlighted in yellow on the map.



2.0 CONTACT INFORMATION

For more information related to the Mineral Tenure Map Viewer contact:

NWT Centre for Geomatics

Shared Services Centre for Environment and Natural Resources, Industry, Tourism and Investment 5102 – 50th Avenue, 7th floor Yellowknife, NT X1A 3S8

www.geomatics.gov.nt.ca

The map viewer has been developed with the assistance of Caslys Consulting Ltd.

Caslys Consulting Ltd.

Unit 102A, 6683 Oldfield Road Saanichton, B.C., V8M 2A1

Contact: Justin McPherson

Tel: (250) 652-9268; Fax: (250) 652-9269

Email: jmcpherson@caslys.ca