Welcome!

To the GeoView System Overview Online Training Course

The Alberta Department of Energy provides GeoView as a mapping system to enable users to find geographic information in Alberta.

GeoView retrieves the mineral specific profile to display the appropriate configuration of the map.

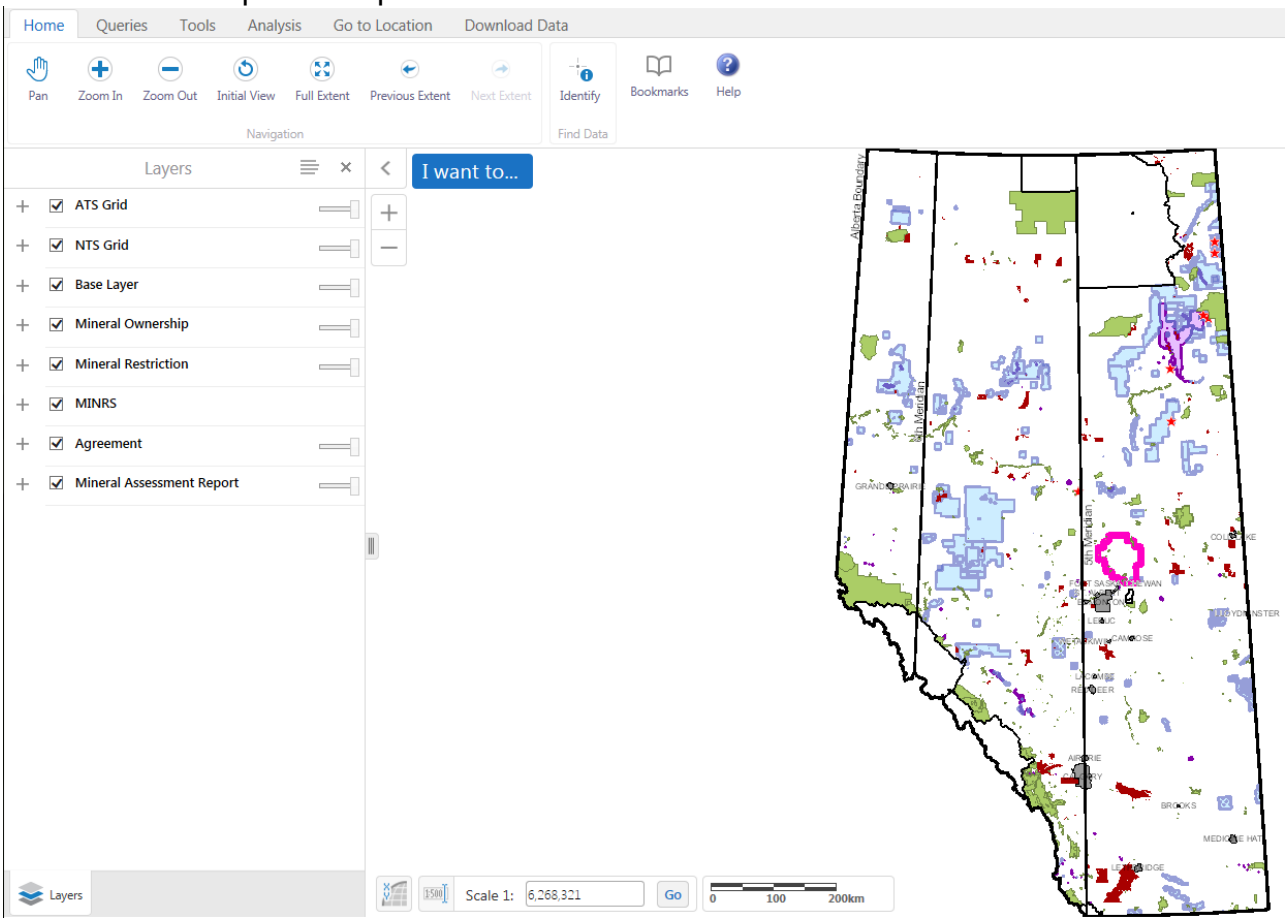
Revision

Date	Revisions Type	Page Number
May 3, 2016	Initial Creation	All
May 11, 2016	Updates	All

INTRODUCTION

In this module you will learn about Geoview's:

- Screen layout
- Information panel and map layers
- Toolbar
  - Home
  - Queries
  - Tools
  - Analysis
  - Go to Location
  - Download Data
- How to navigate the map
- How to use queries
- How to use identify
- How to use annotations
- How to create a printable map
- How to export a map

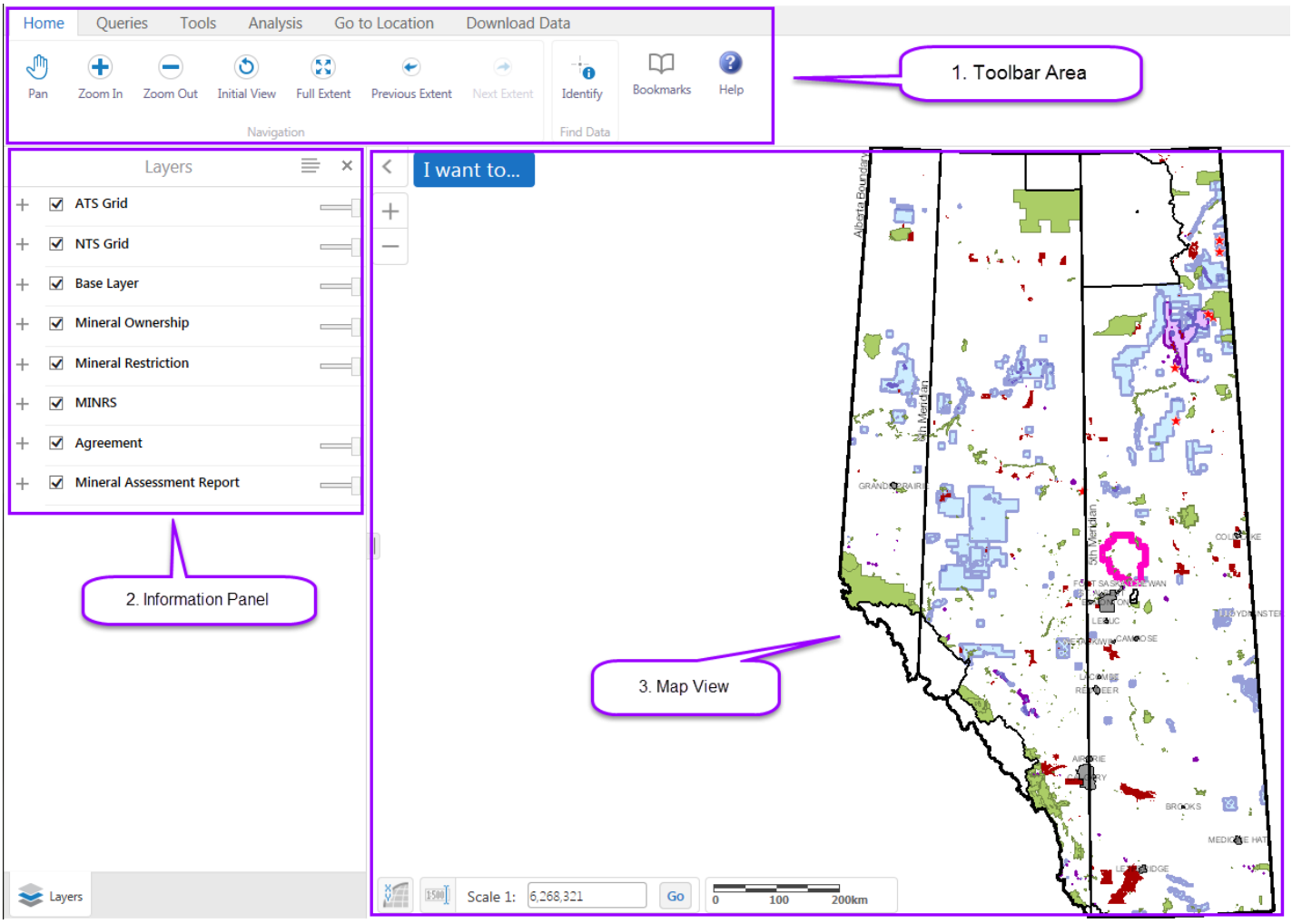


Note: *As this course demonstrates the use of the GeoView tool, the data in some instances may not portray the actual Crown or Freehold ownership and is not specific to a particular mineral type map.*

SCREEN LAYOUT

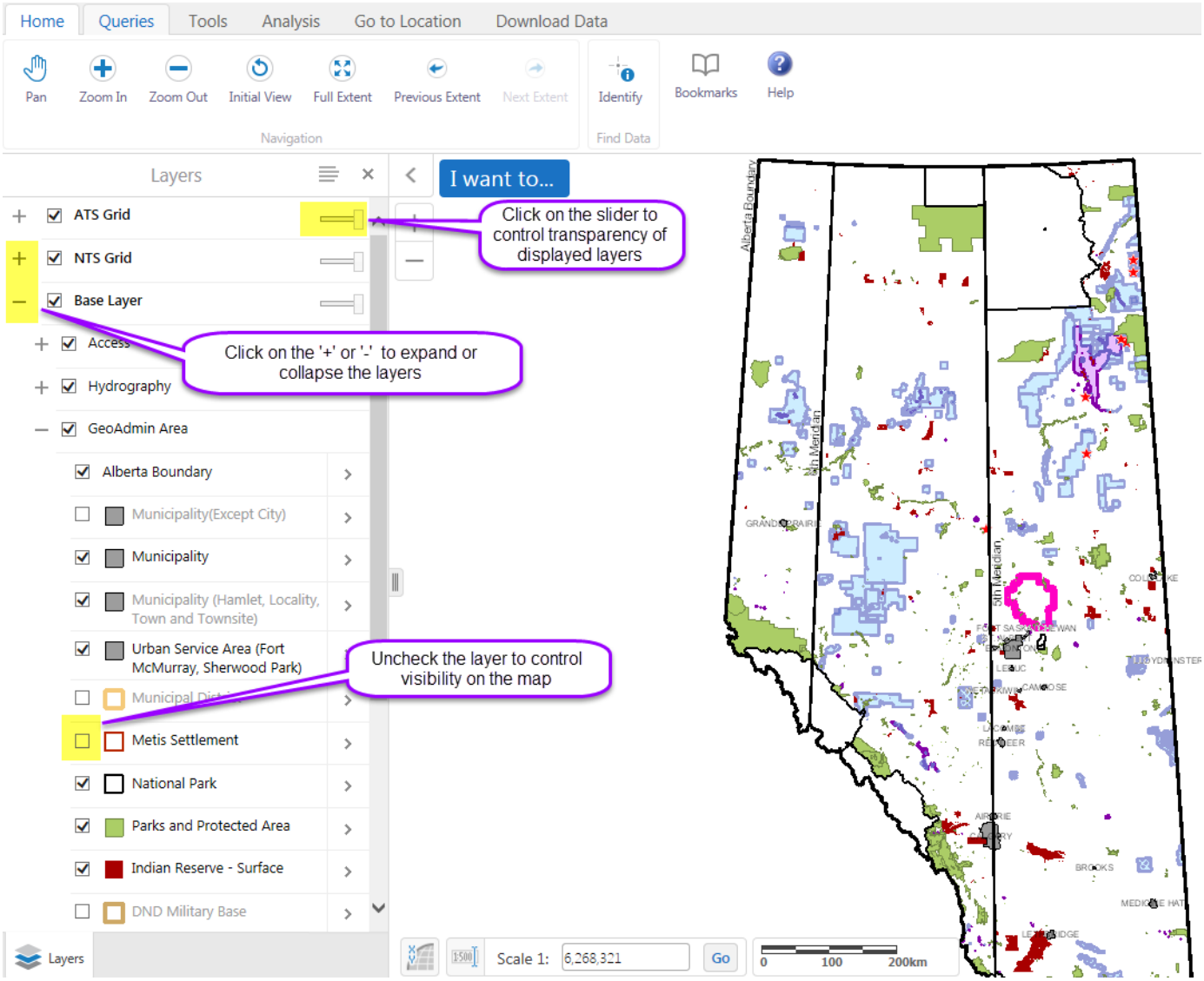
The GeoView screen display has three mains sections:

TOOLBAR AREA	INFORMATION PANEL	MAP VIEW
Contains numerous tools that are used to move around the map, find or search information on the map, print the map etc. These tools are categorized into high-level groups: Home, Queries, Analysis, Go to Location and Download Data	Shows different kinds of information/results when you interact with the map. For example, this panel displays the Map Layers where you can select different layers to hide or show on the map.	Shows the map window where you can interact with the map by zooming, panning, annotating.



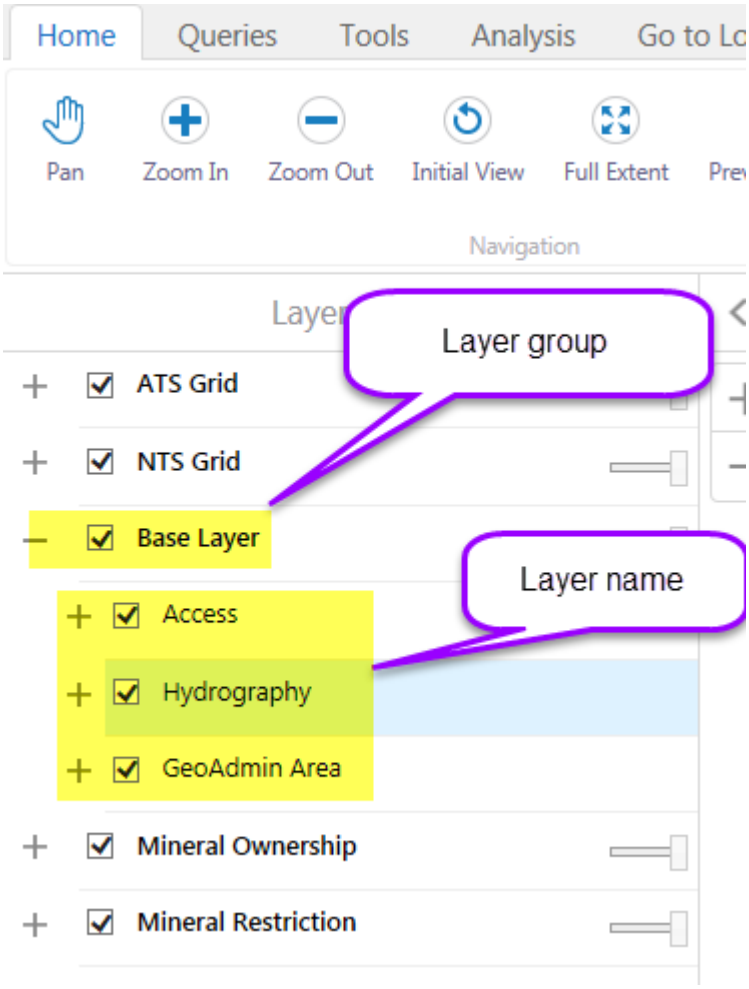
INFORMATION PANEL AND MAP LAYERS

Map layers control the display of the map layers list. You can check or uncheck the map layers according to your requirement. You can also control the visibility and transparency of the map using the sliders.



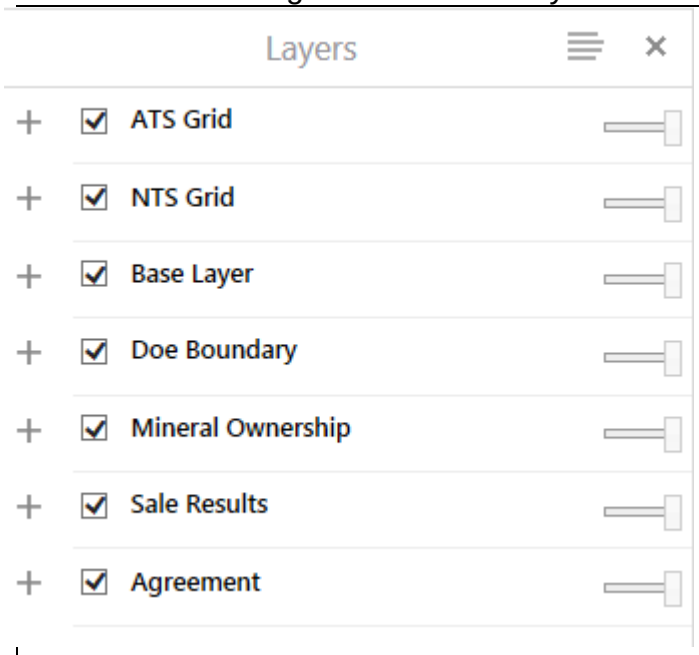
INFORMATION PANEL AND MAP LAYERS – LAYER GROUP AND LAYER NAME

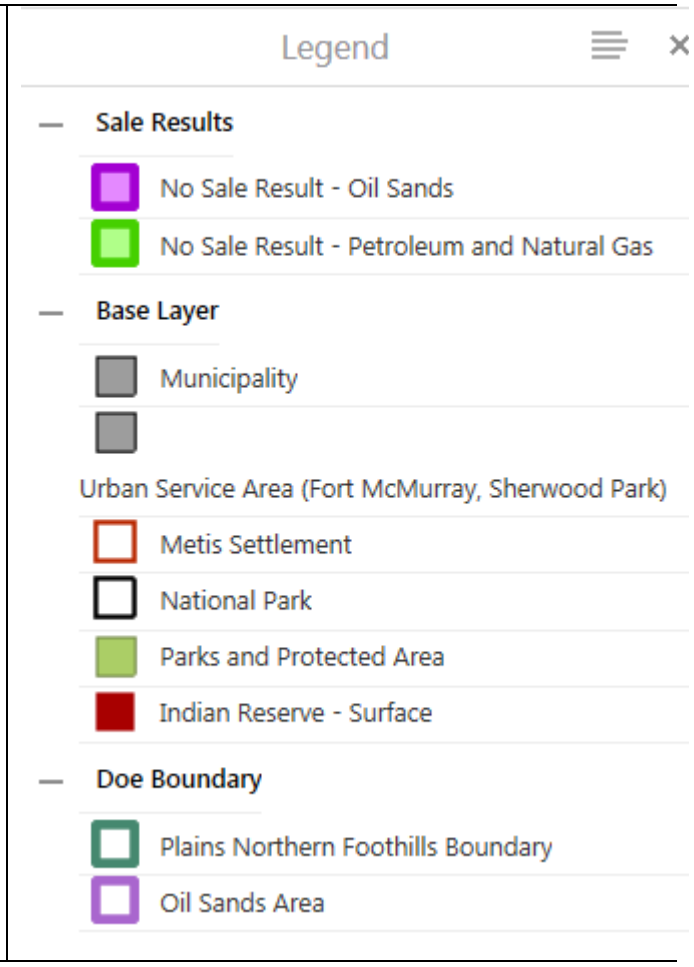
The Information Panel display consists of a Layer Group and Layer Names. When the Layer Group is expanded, the Layer Names will be visible. Y ou can check/uncheck the Layer Group and Layer Names to control visibility in the map. The display of the Layer Group will override the display of the Layer Names.

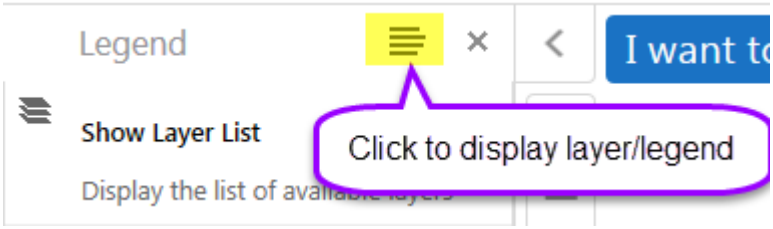


INFORMATION PANEL – MAP LEGEND

The Map legend shows the corresponding legend for the layers used in map. You can toggle between Show Legend and Show Layer.



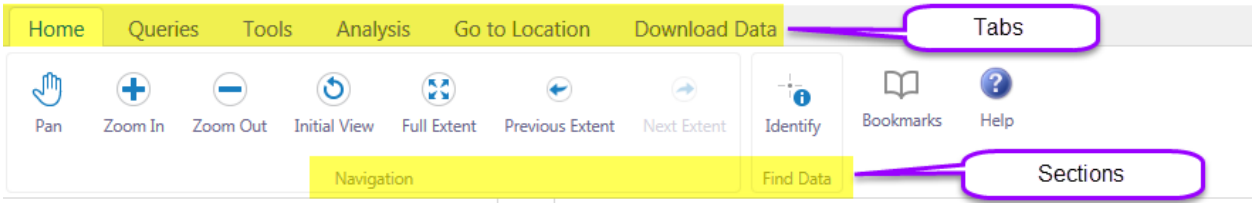




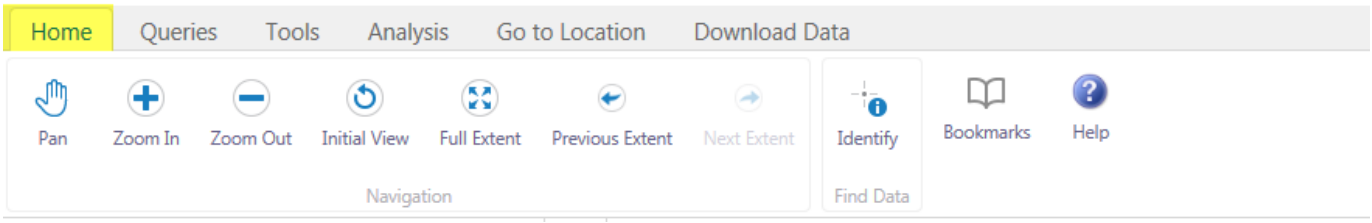
TOOLBAR

The toolbar contains many of the tools you use to pan (move around), zoom in and out, as well as to find and manipulate the information that is stored in the map.

The toolbar is divided into **Tabs** that group tools into high-level functions for example; Home, Queries, Tools, Analysis, Go to Location and Download Data. Each tab is divided into **Sections** by function for example, for the Home Tab; there are Navigation Tools and Find Data sections.



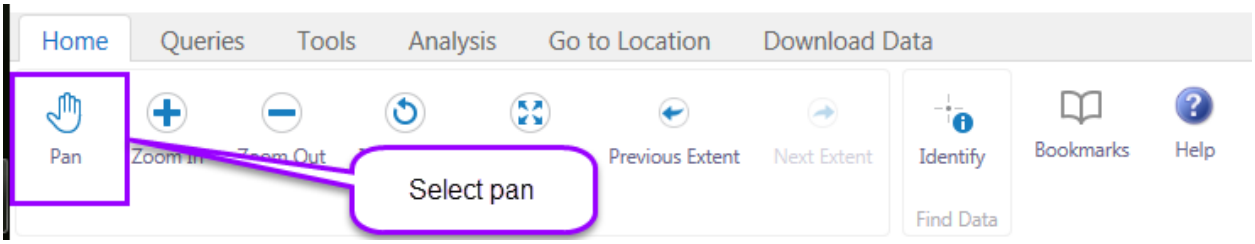
TOOLBAR TAB - HOME

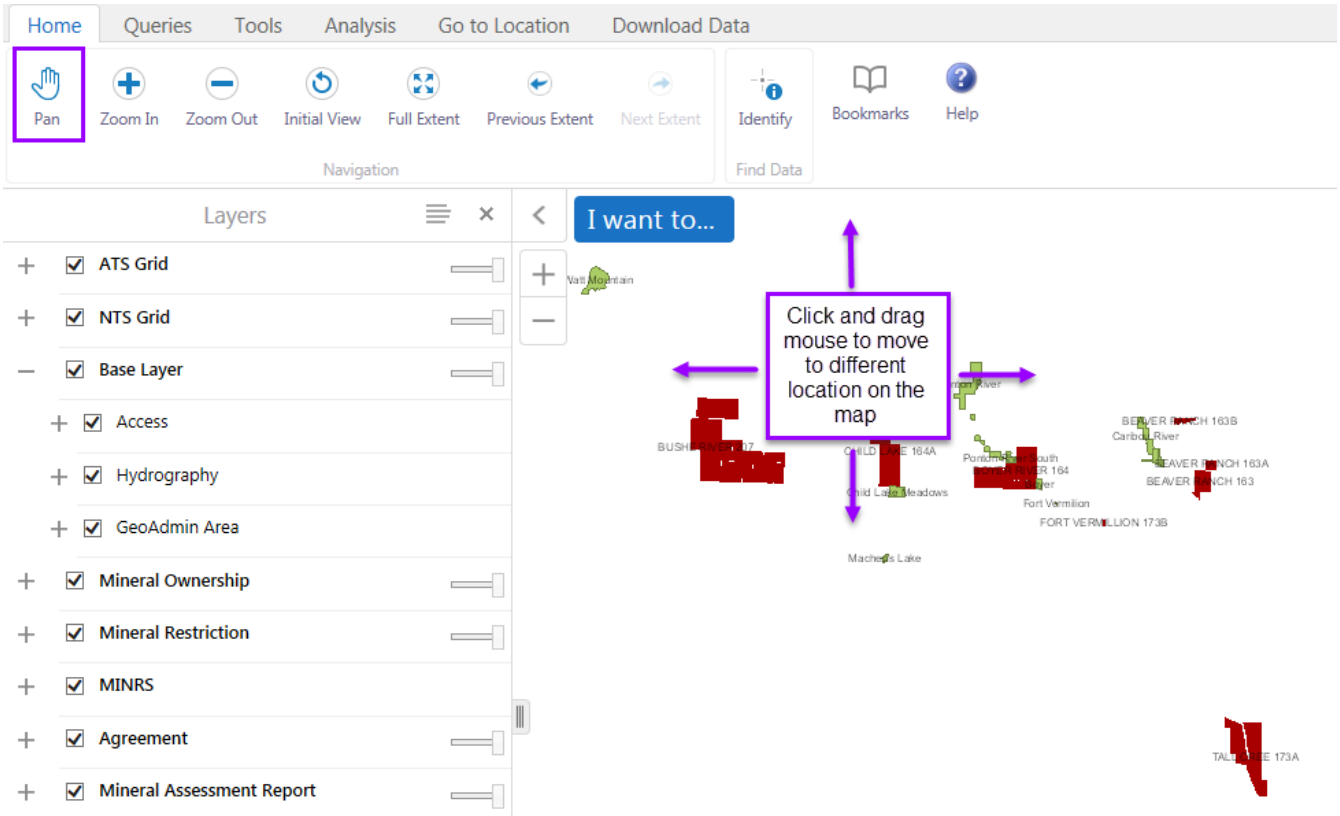


Use these tools:	To:
Pan	Pan (move) the map in any direction. To pan the map, click on it and drag in any direction. Use the Pan tool to return to panning when you have used other tools.
Zoom In	Zoom in click and drag an area on the map or use your roller on your mouse.
Zoom Out	Zoom out click and drag an area on the map or use your roller on your mouse.
Initial View	Return to the extent (scale) that the map was at when it opened.
Full Extent	Return to the extent (scale) that the map was at when it opened.

Previous Extent	The map is zoomed backward to the previous extent (previous view of the map).
Next Extent	If you have zoomed forward and back the map will zoom forward to the next extent.
Identify	Identify information at the point on the map that is clicked is available at the section level scale.
Bookmarks	Create and navigate to a previously created bookmark. To add a bookmark for the current extent, click the plus +, enter a name, and then click OK.
Help	Opens page that lists the Geoview Training Manuals related to the specific mineral map accessed.

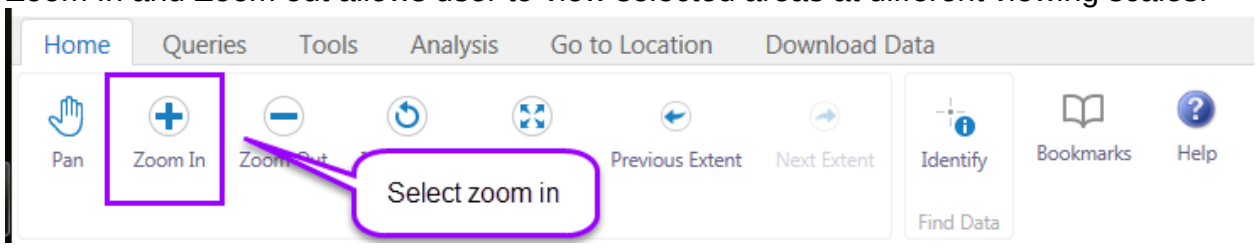
How to navigate the map – Pan

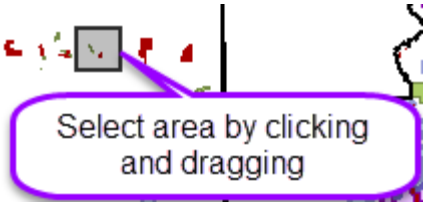


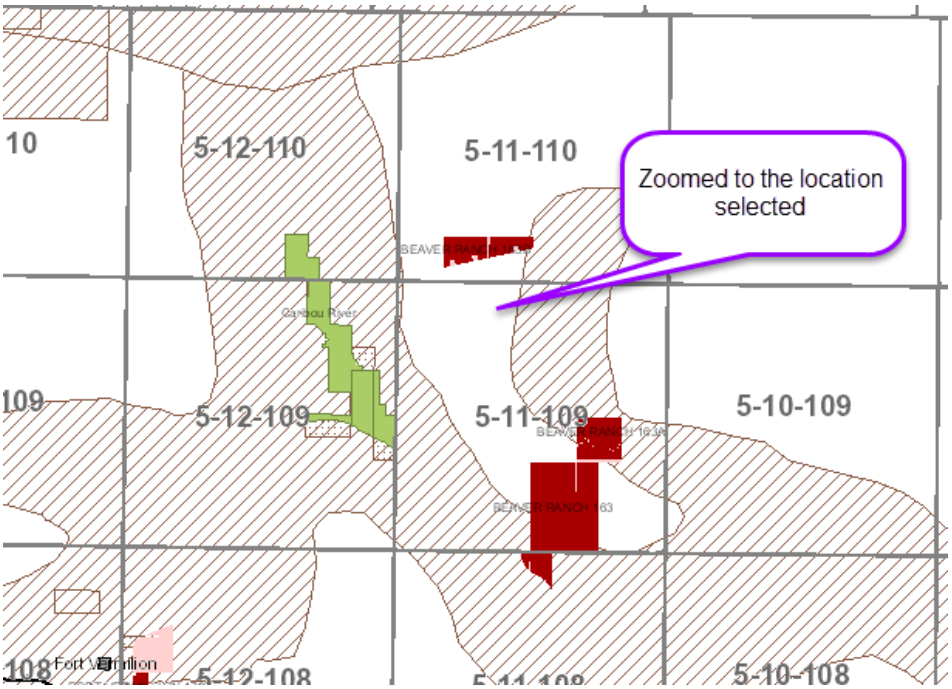


How to navigate the map – Zoom In / Zoom Out

Zoom In and Zoom out allows user to view selected areas at different viewing scales.





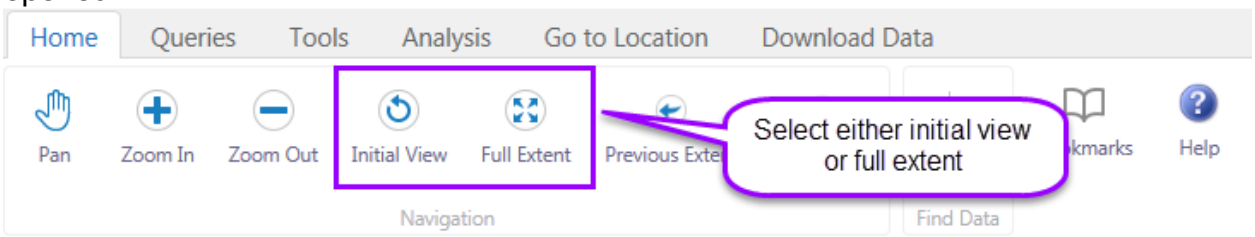


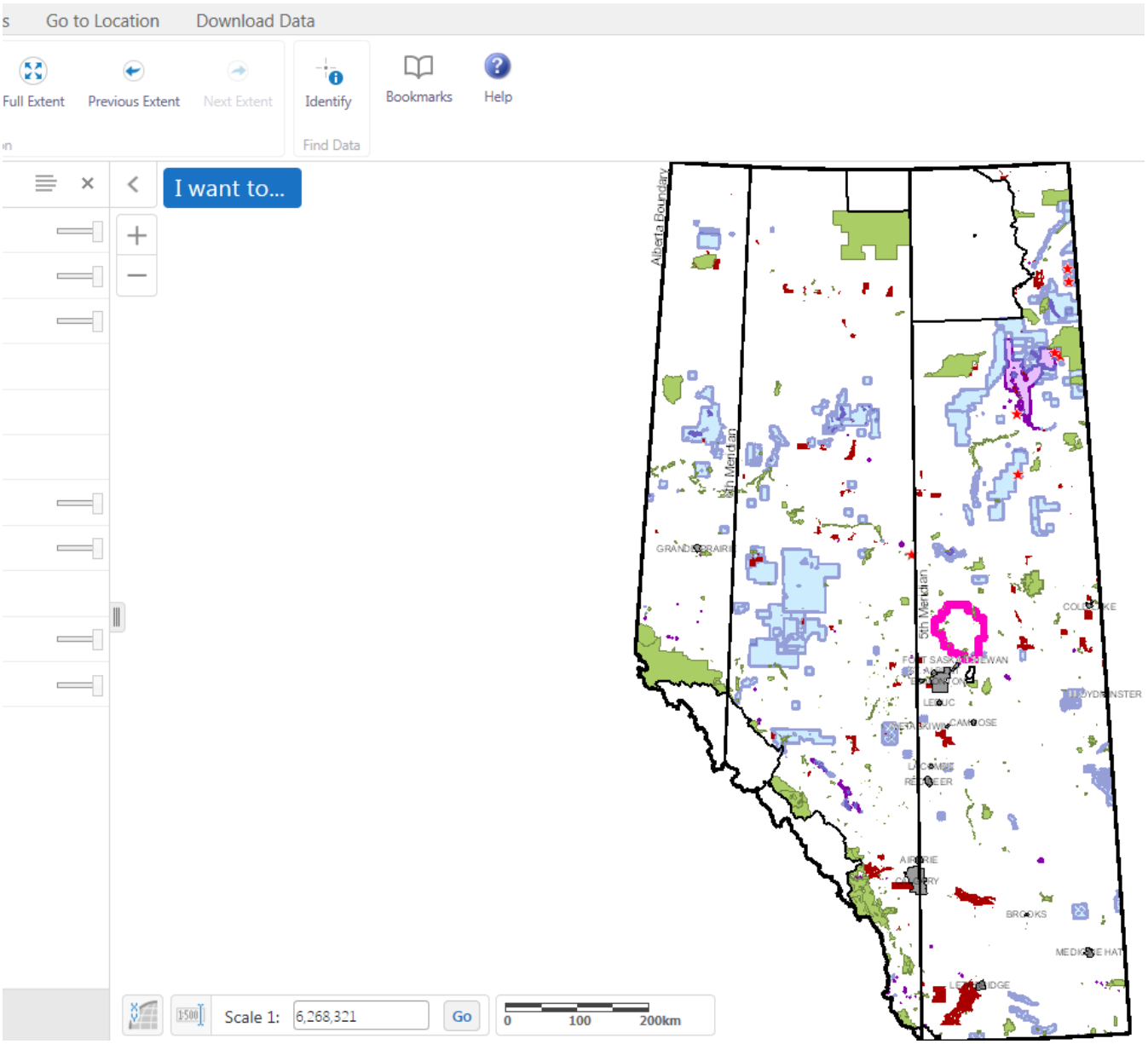
Selecting the 'zoom out' function works opposite of the 'zoom in' function.

***Note**: Once you are in the zoom mode you can also use the wheel on your mouse to zoom in and out.*

How to navigate the map – Initial View / Full Extent

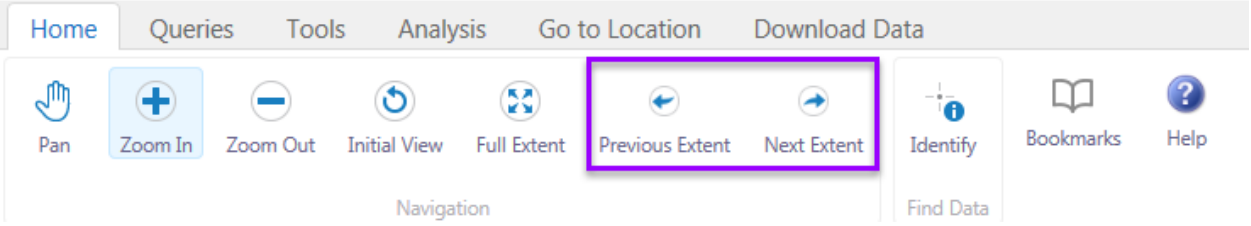
Initial View and Full Extent returns the map to the extent (scale) that the map was at when it opened.



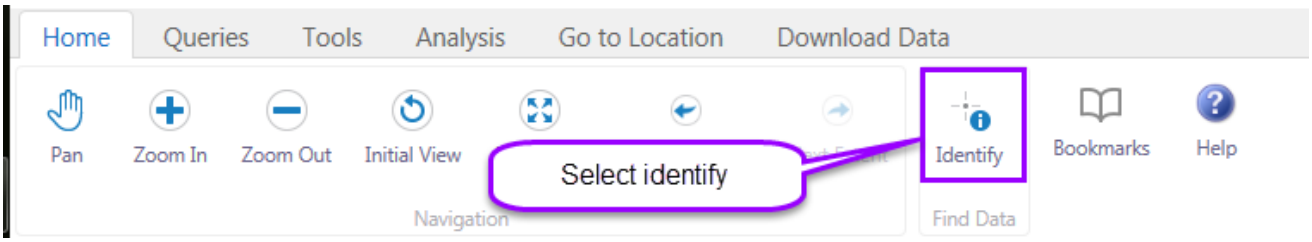


How to navigate the map – Previous Extent/Next Extent

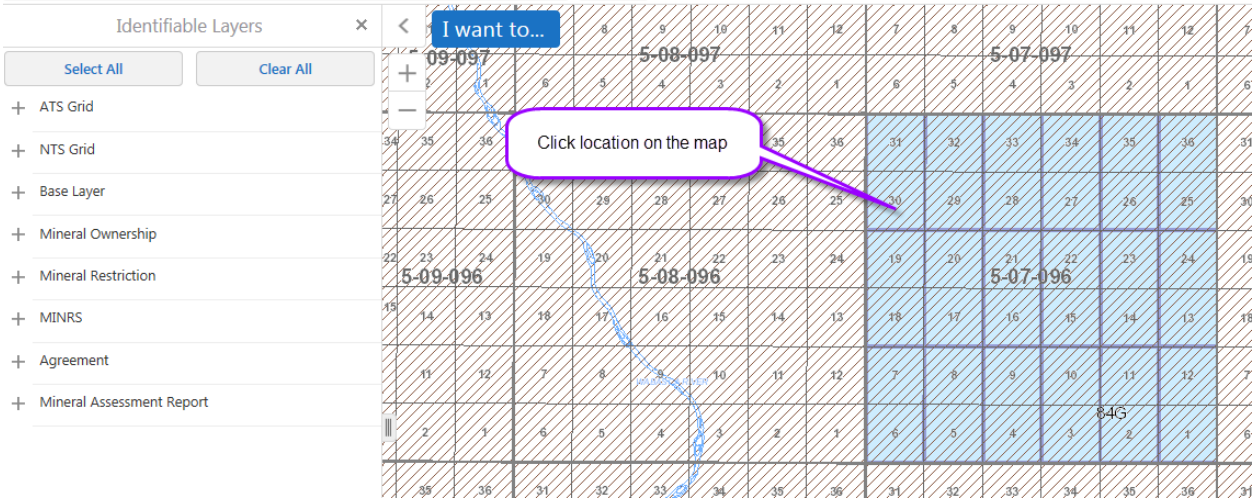
This allows user to navigate to go back to a previous extent the user has viewed and then the next extent will go forward.

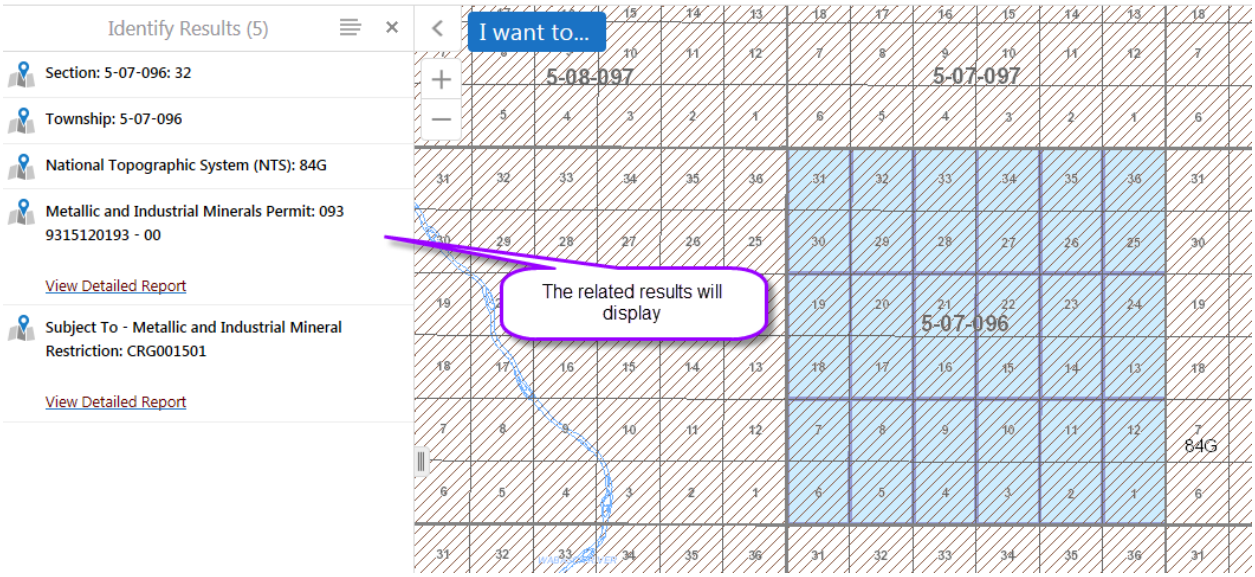


How to use – Identify

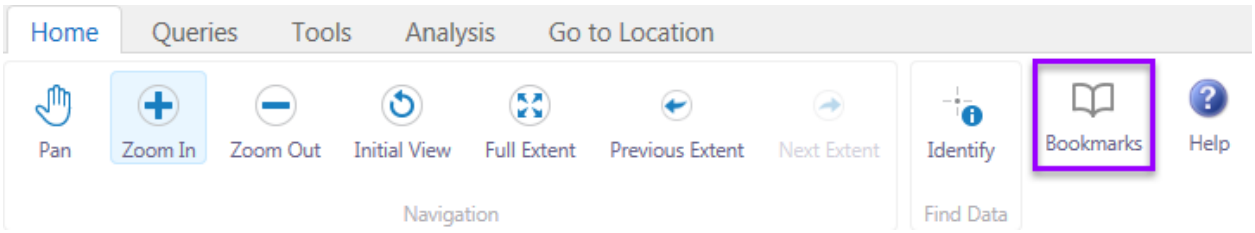


***Note**: When using the identify function you need to have the section scale visible.*

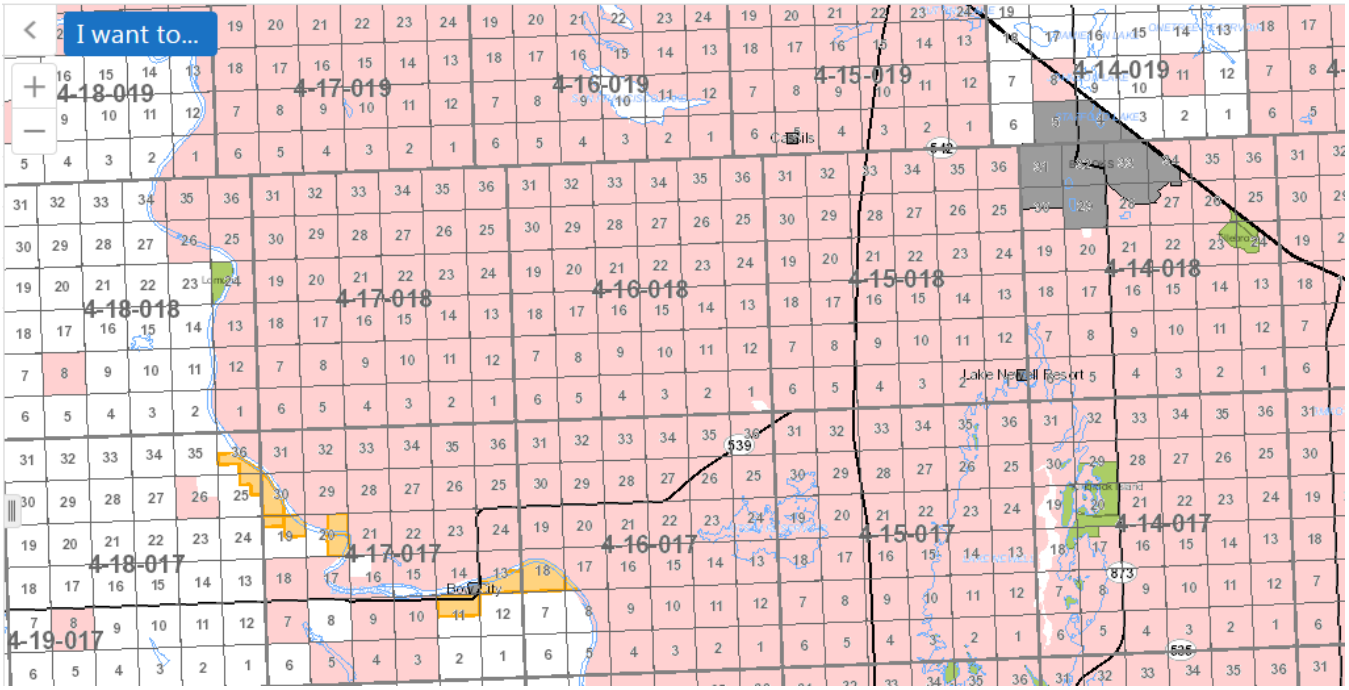


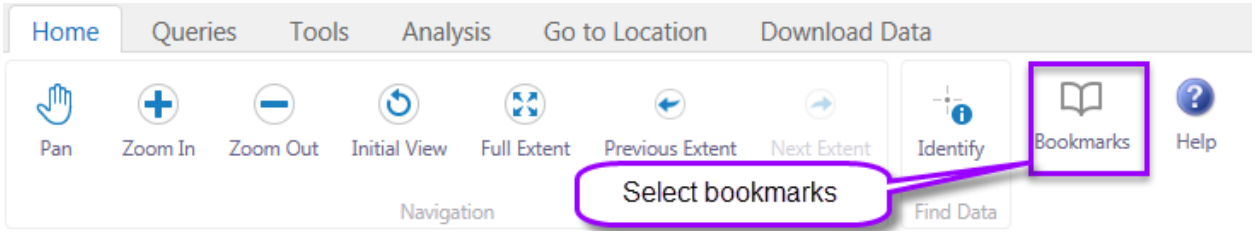


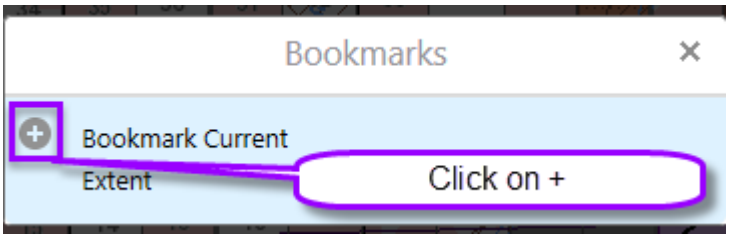
How to use – Bookmarks

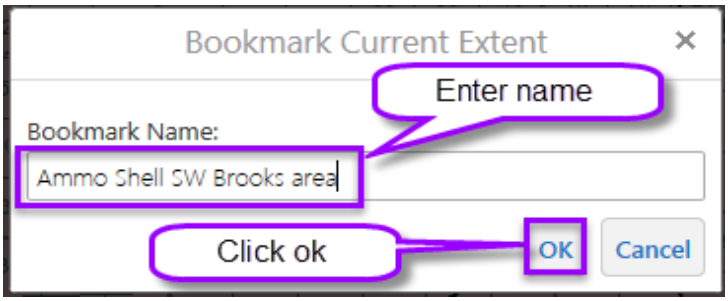


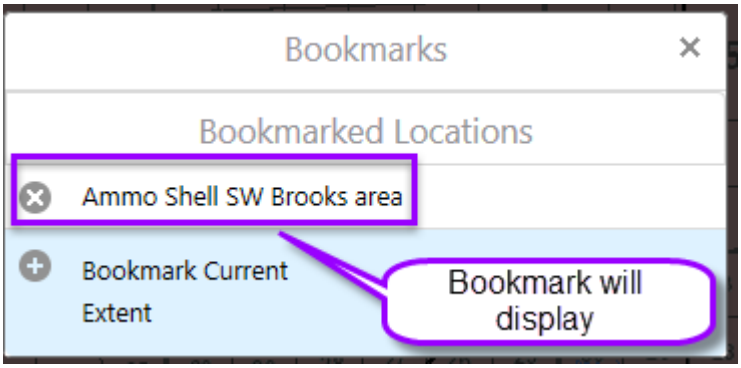
Open map
Find area of interest



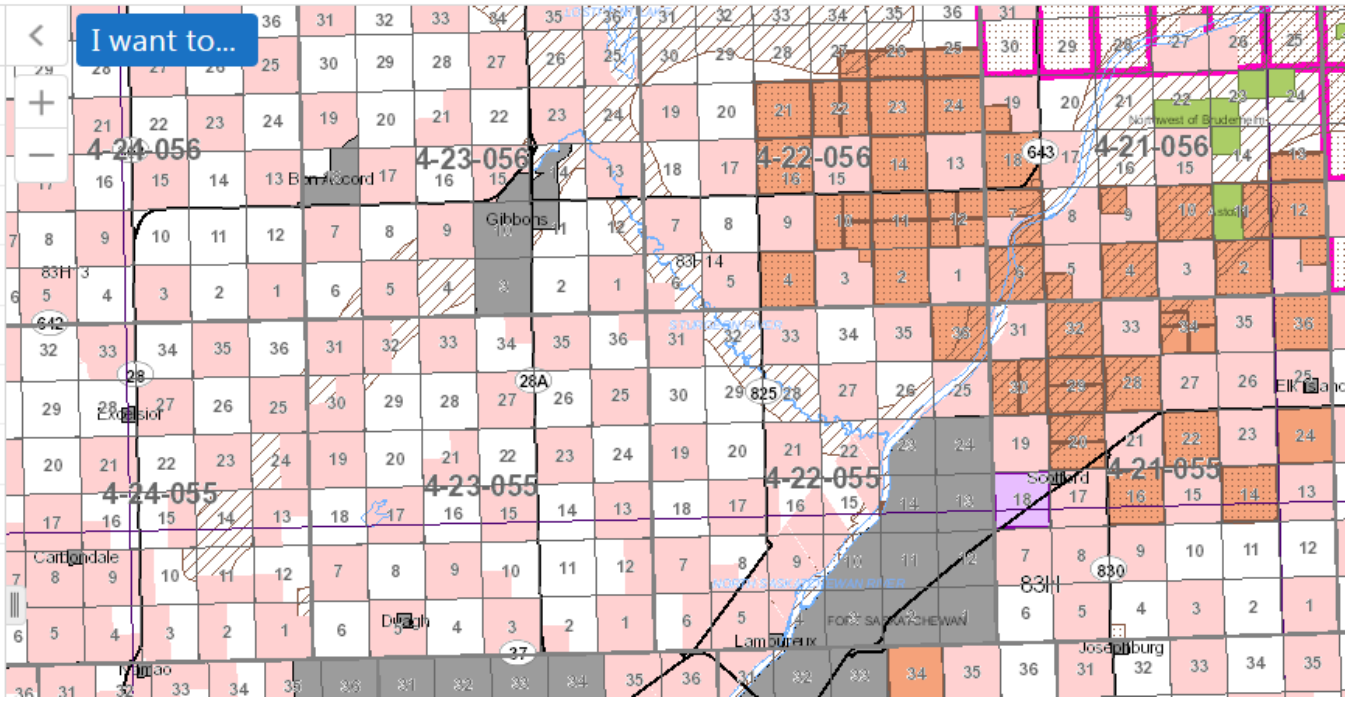




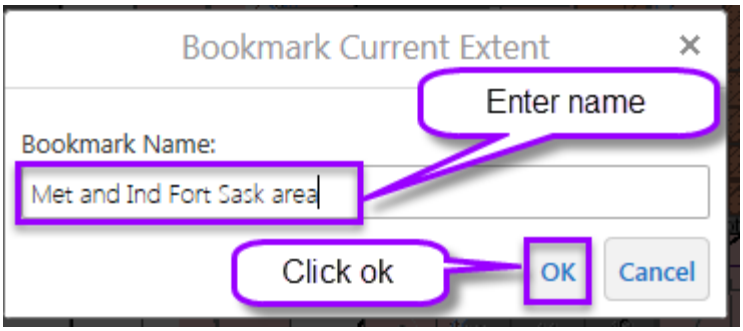


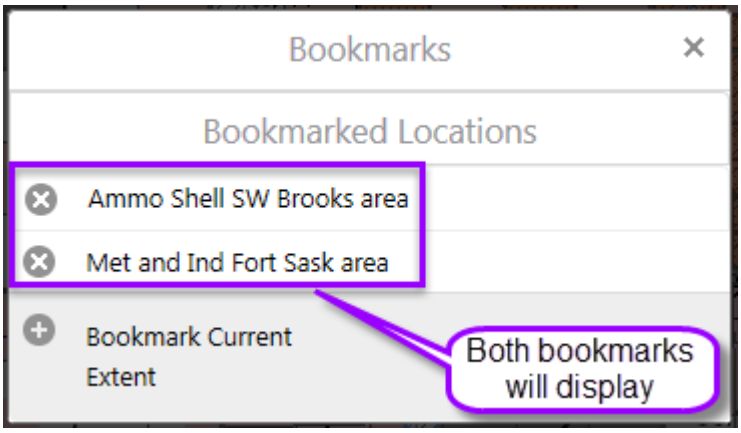


Open Metallic and Industrial map
Find area of interest

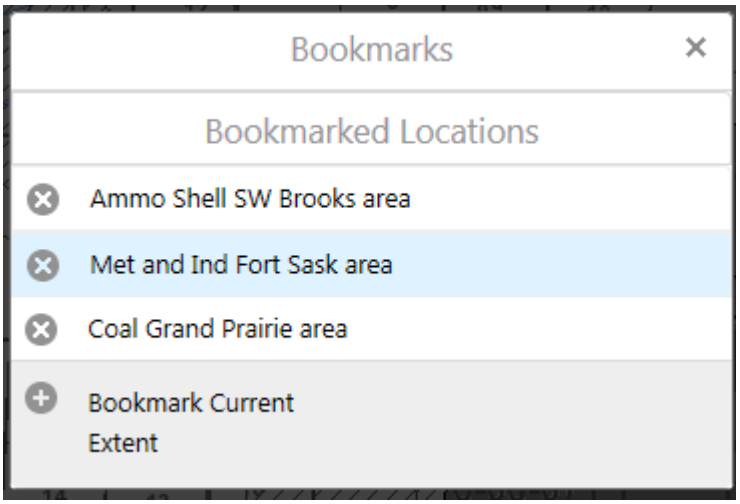


Repeat bookmark process.

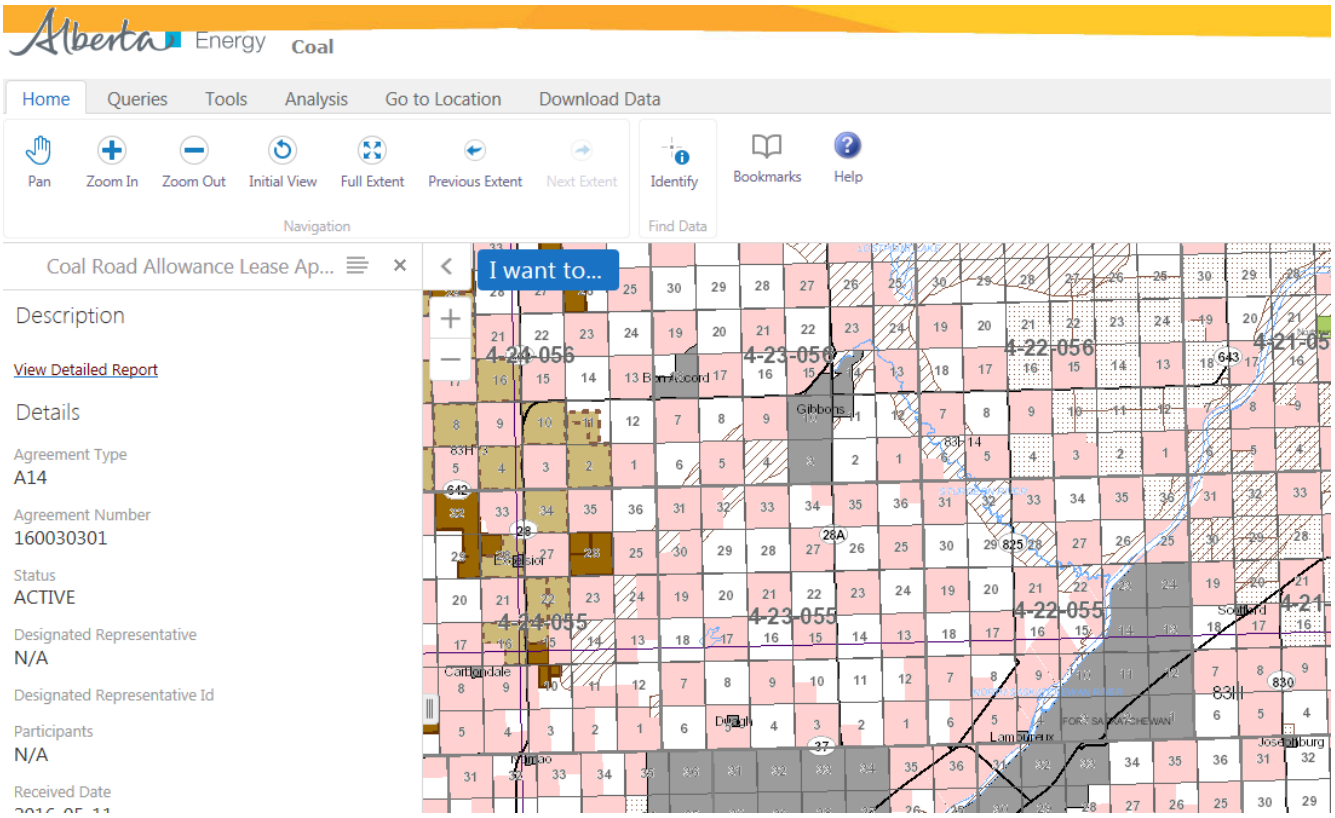




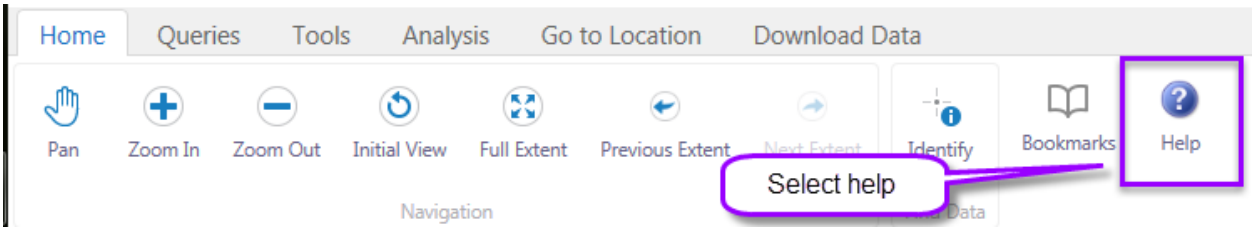
***Note**: Bookmarks are based on the user not on the different mineral type maps.*

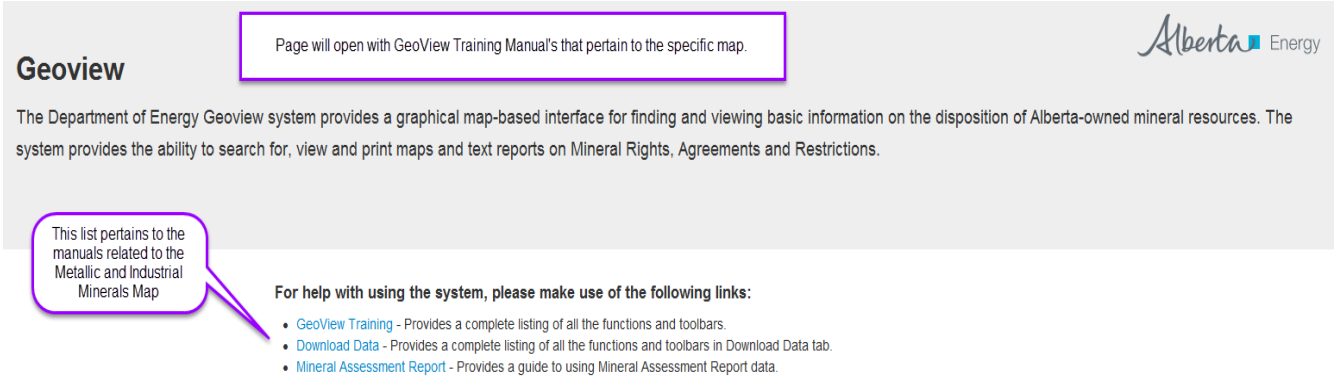


If you are in the Coal map and click on bookmarks and select the Metallic & Industrial bookmark it will display the Met & Ind bookmark area on the Coal map.

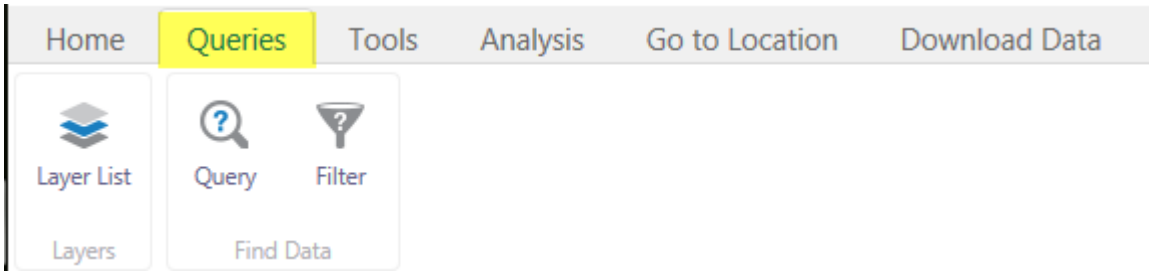


How to access manual - Help

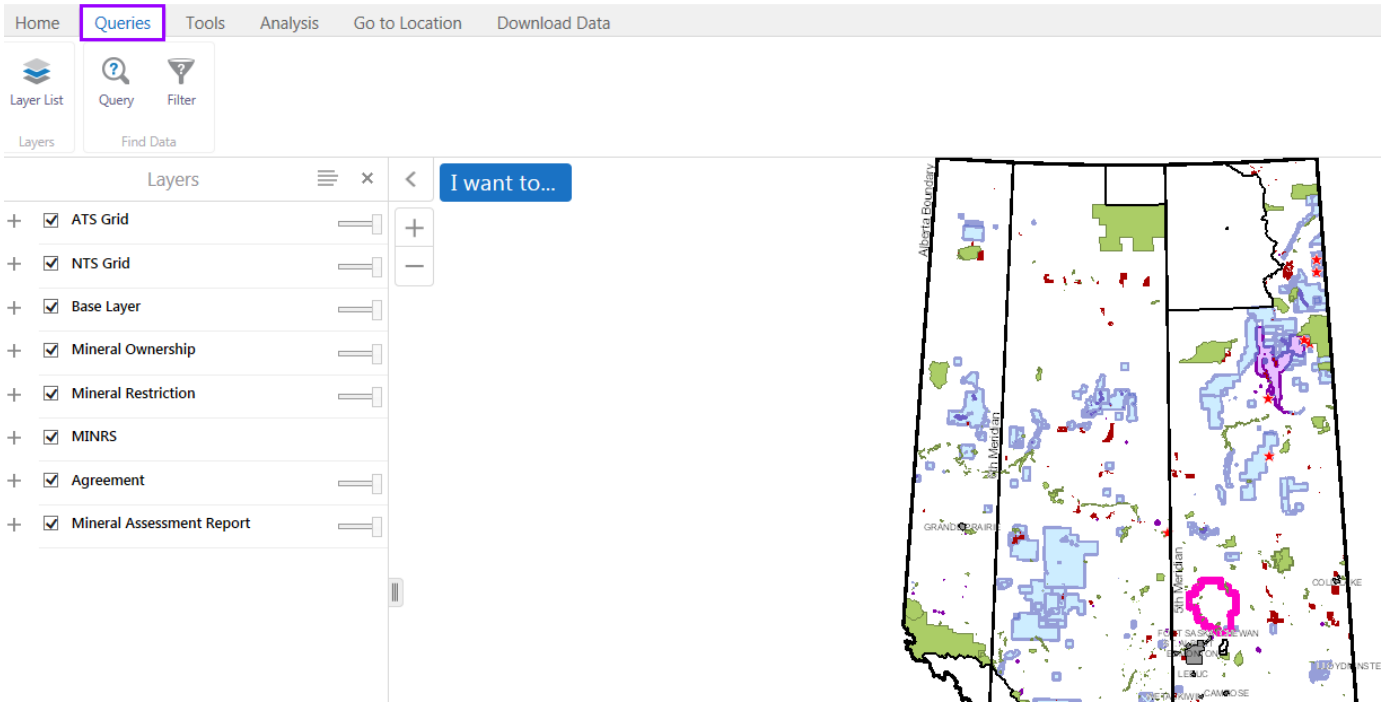




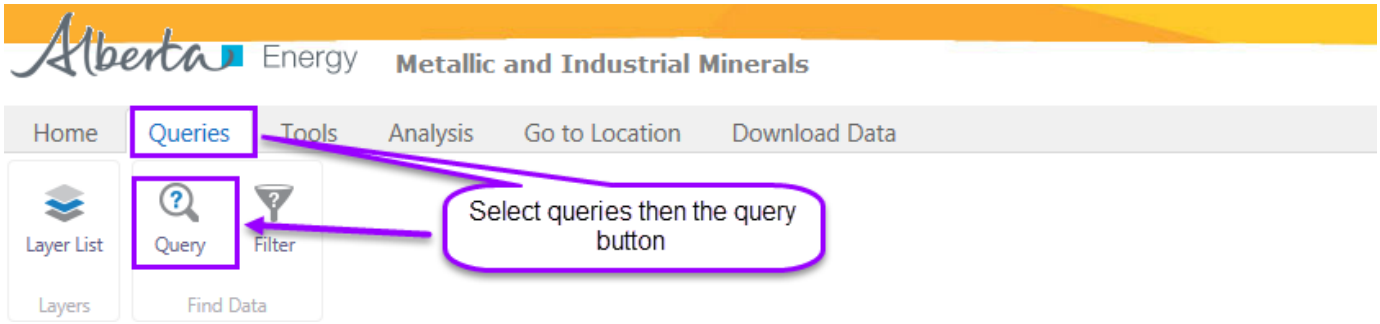
TOOLBAR TAB – QUERIES



Use these	To:
Layer List	Show the layer list in the Map Layers panel.
Query	Open the Query in the Information Pane. The Query makes it possible to specify a search by layer, field, and values. It is also possible to add multiple conditions to a search. Results will be returned.
Filter	Open Filter in the Information Pane. The Filter Builder enables end users to filter the features that show on the map. The Filter makes it possible to specify a definition expression to apply for a certain layer using its fields and specific values. The layer will be filtered to show only the results of the definition expression. Multiple conditions can be used to filter a certain layer.

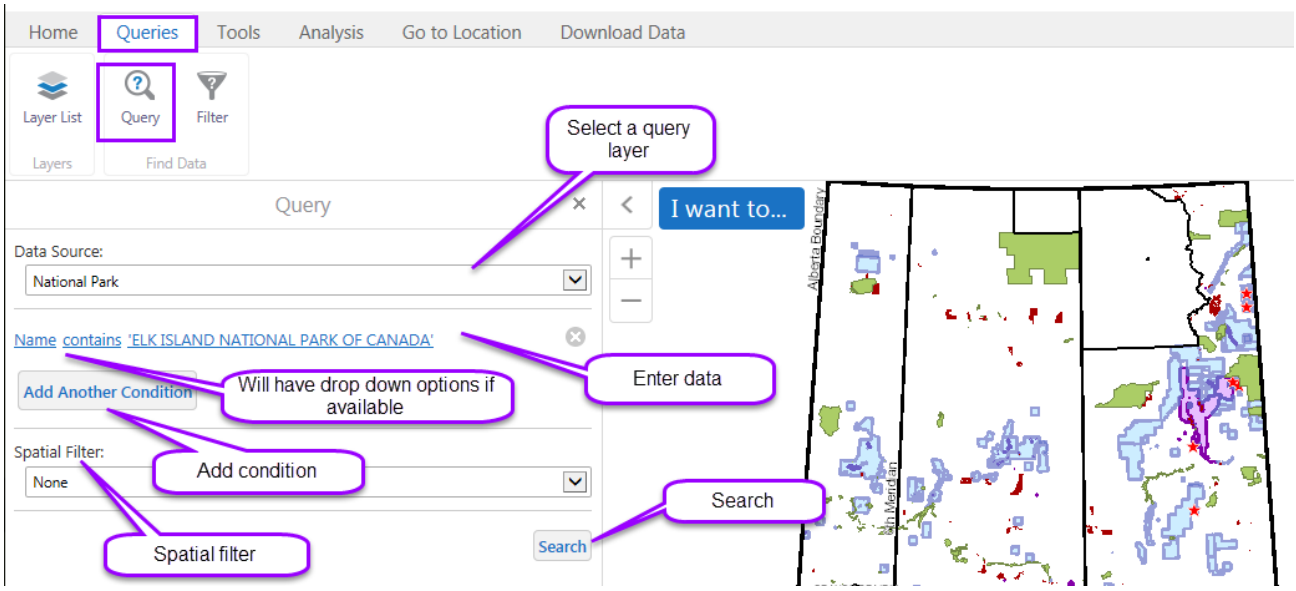


Note: *The different mineral maps display different layer information.*

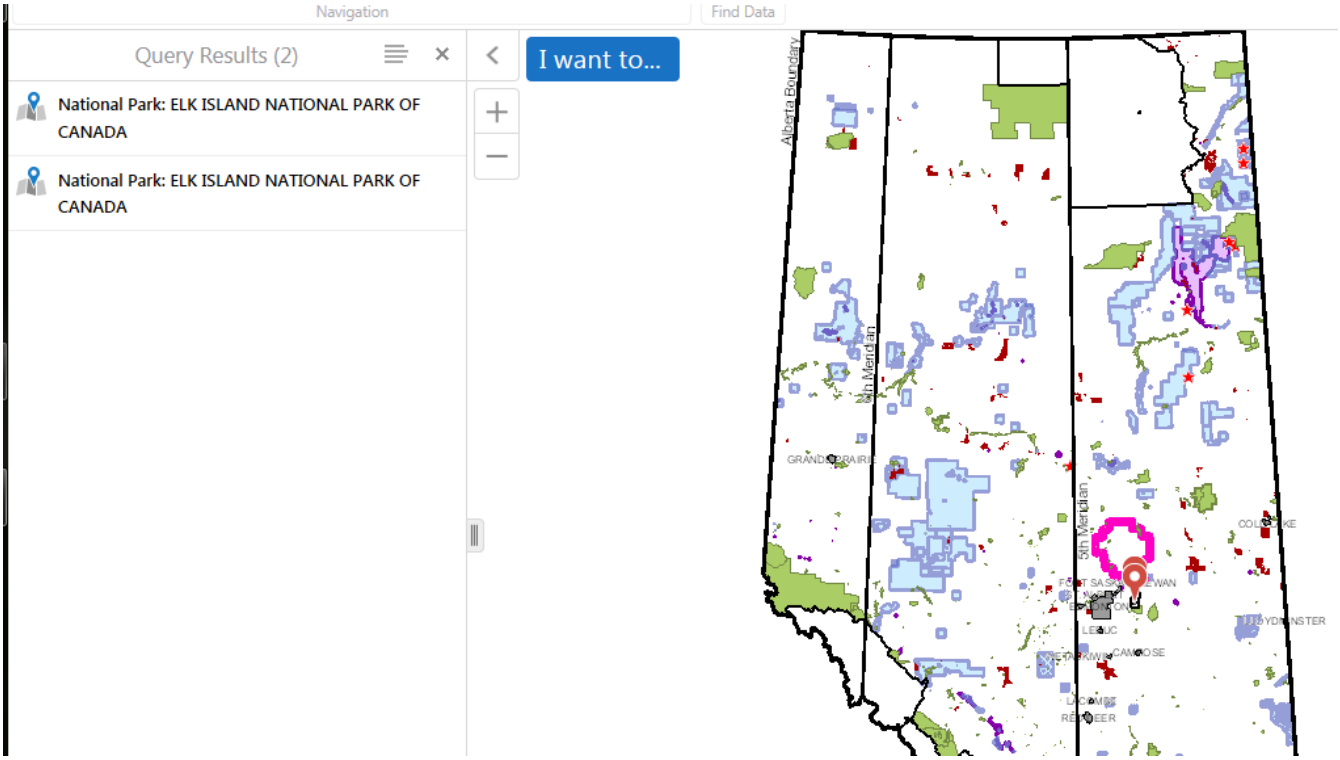


How to use Queries – Steps

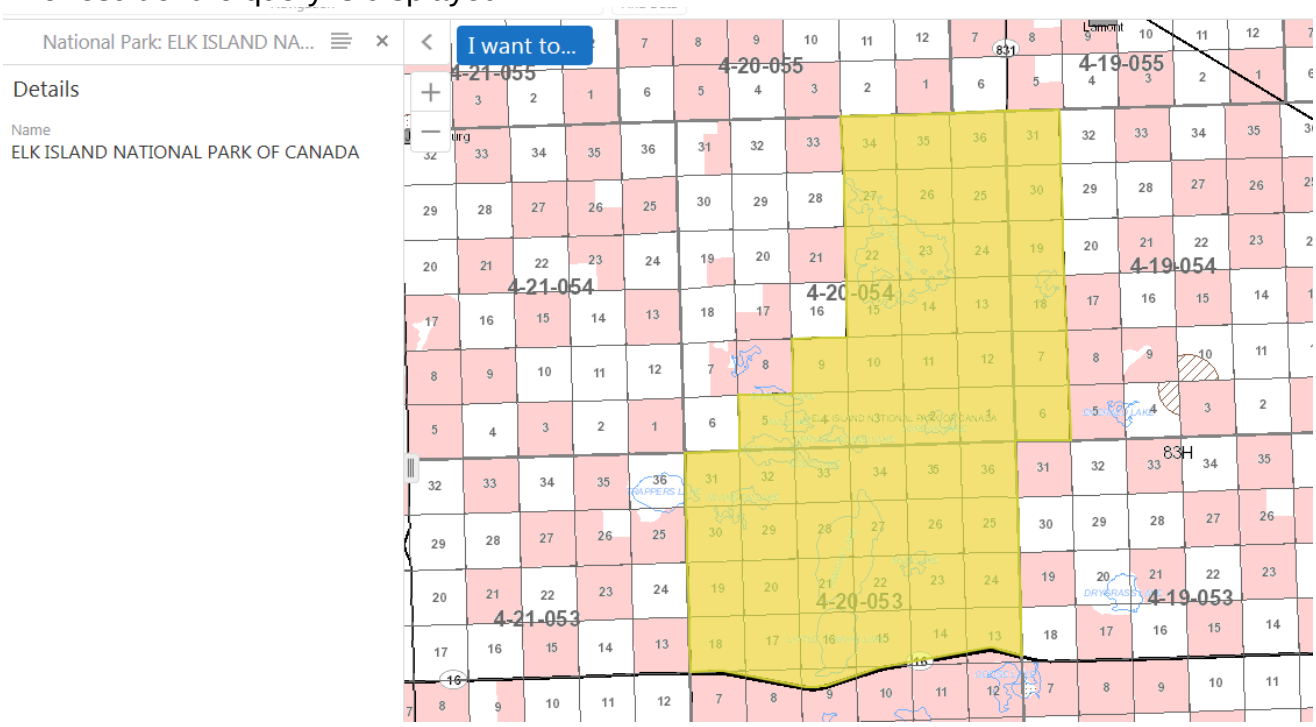
1. Select a query layer, layers available will display in a drop down
2. Enter data e.g. land key
3. Add another condition as required
4. Add spatial filters
5. Click search



When search is executed you may end up with more than one result, select the one that you require.

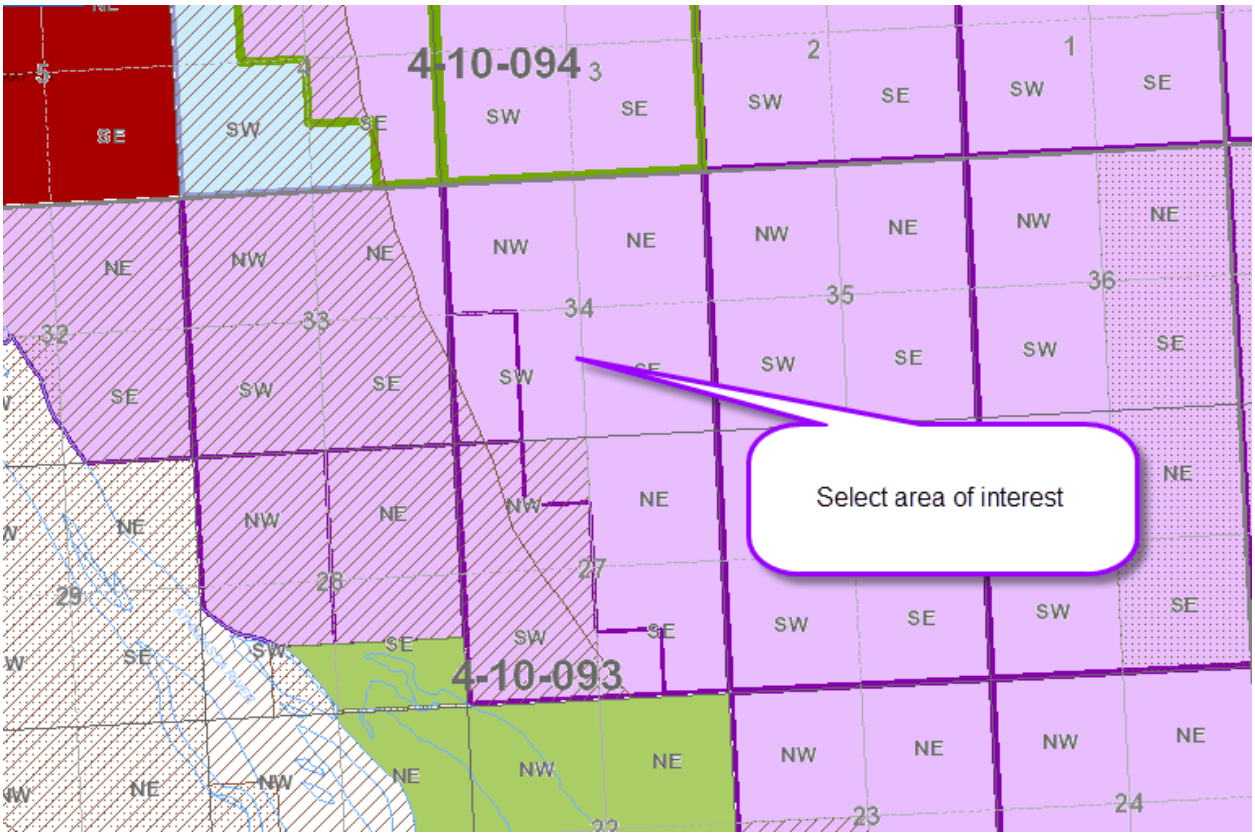

Navigation
Find Data
Query Results (2)
I want to...
National Park: ELK ISLAND NATIONAL PARK OF CANADA
National Park: ELK ISLAND NATIONAL PARK OF CANADA
Alberta Boundary
5th Meridian
5th Meridian
GRANDE PRAIRIE
LEDUC
CAMROSE

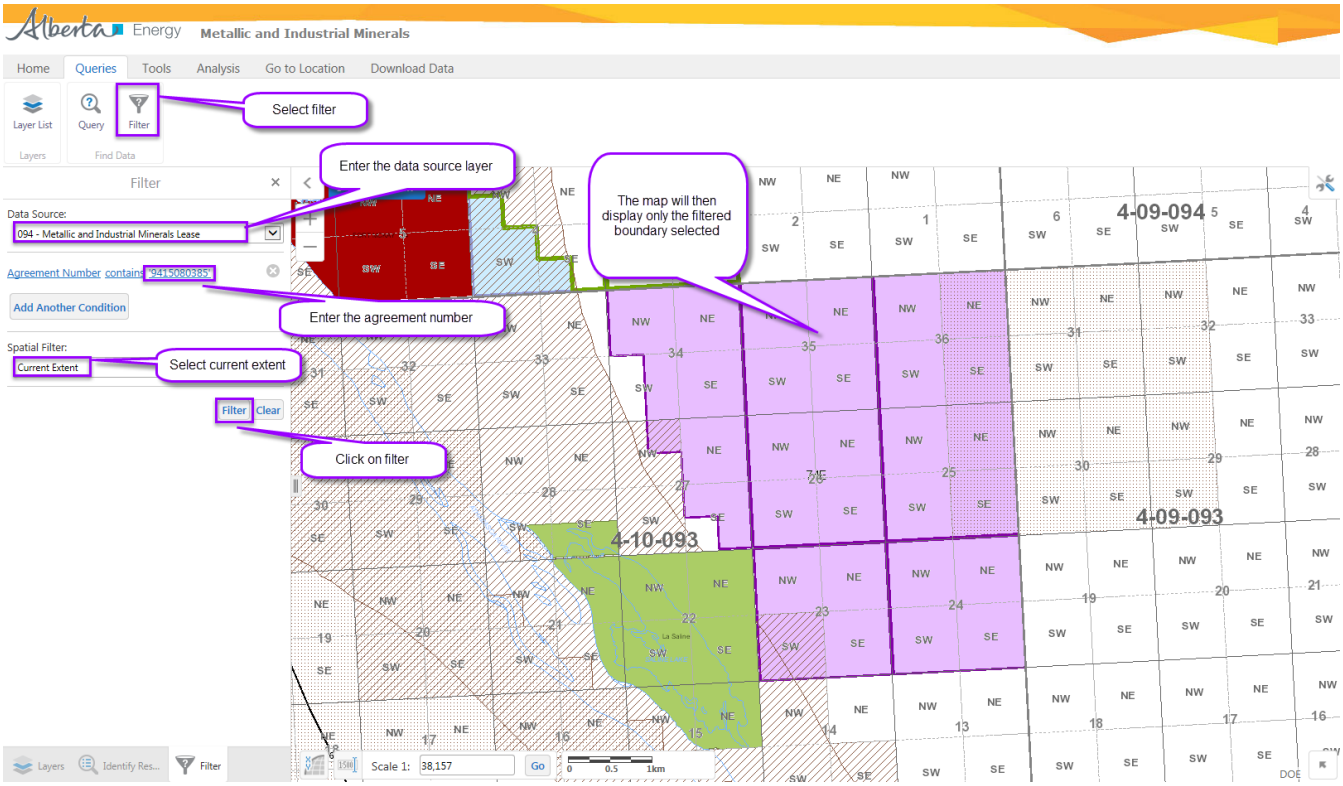
The result of the query is displayed.



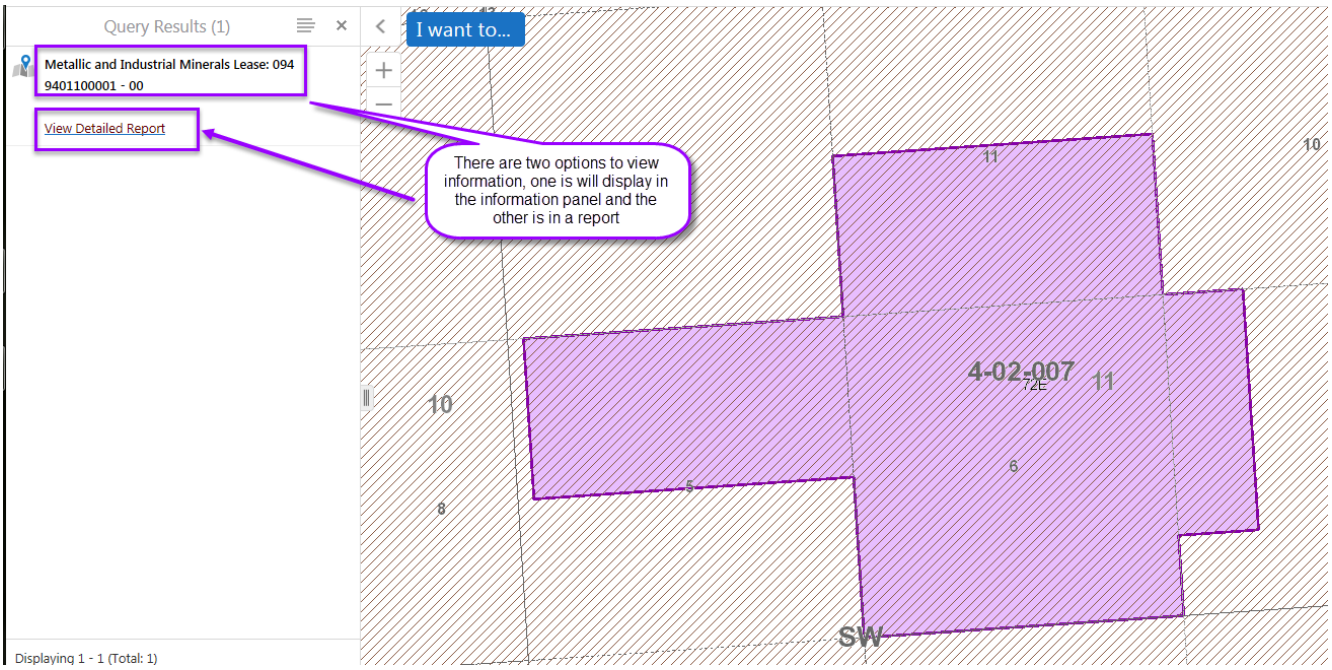
This is sample from prod I think issue has been raised with geocortex, waiting for this required function.

How to use - Filter

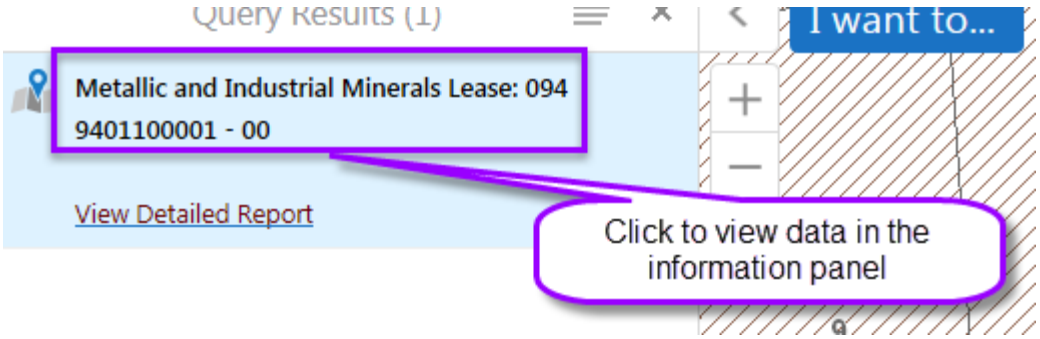


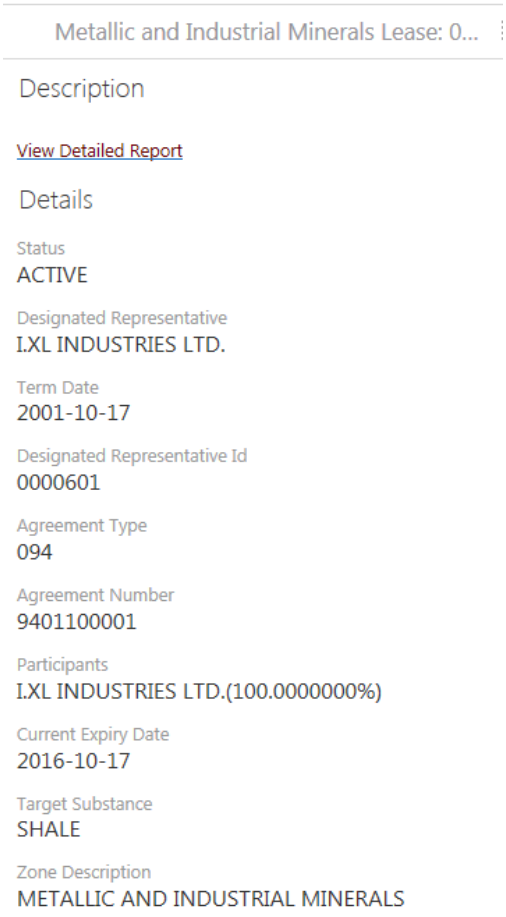


How to use Queries - Results - View Detailed Report



The first one displays data in the information panel and only limited data.





The second one, view detailed report, provides all public data in a report format.

MINERAL AGREEMENT DETAIL REPORT

Report Date: May-10-16 12:19:14 PM

Agreement Number: 093 9314070364

Status: ACTIVE	Term Date: 2014/07/08	Expiry Date: 2028/07/08
Agreement Area: 8192.0000	Continuation Date:	

DESIGNATED REPRESENTATIVE

Client Id: 8082389
Client Name: HEADWATER MINERAL EXPLORATION & DEVELOPMENT LTD.
Address: 14 RUTTAN CLOSE
RED DEER, AB
CANADA T4P 3T1

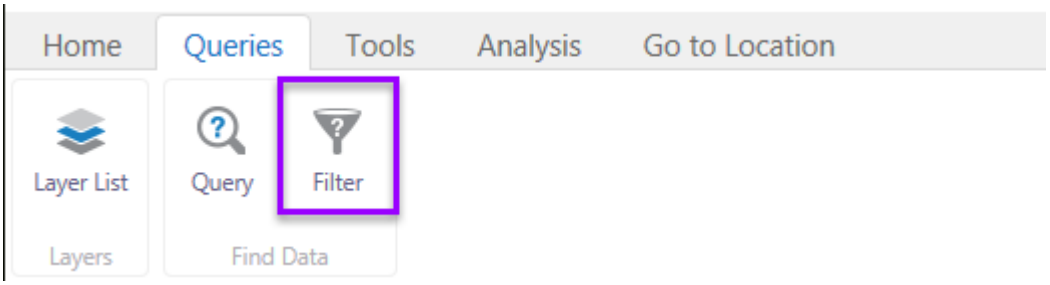
LAND / ZONE DESCRIPTION

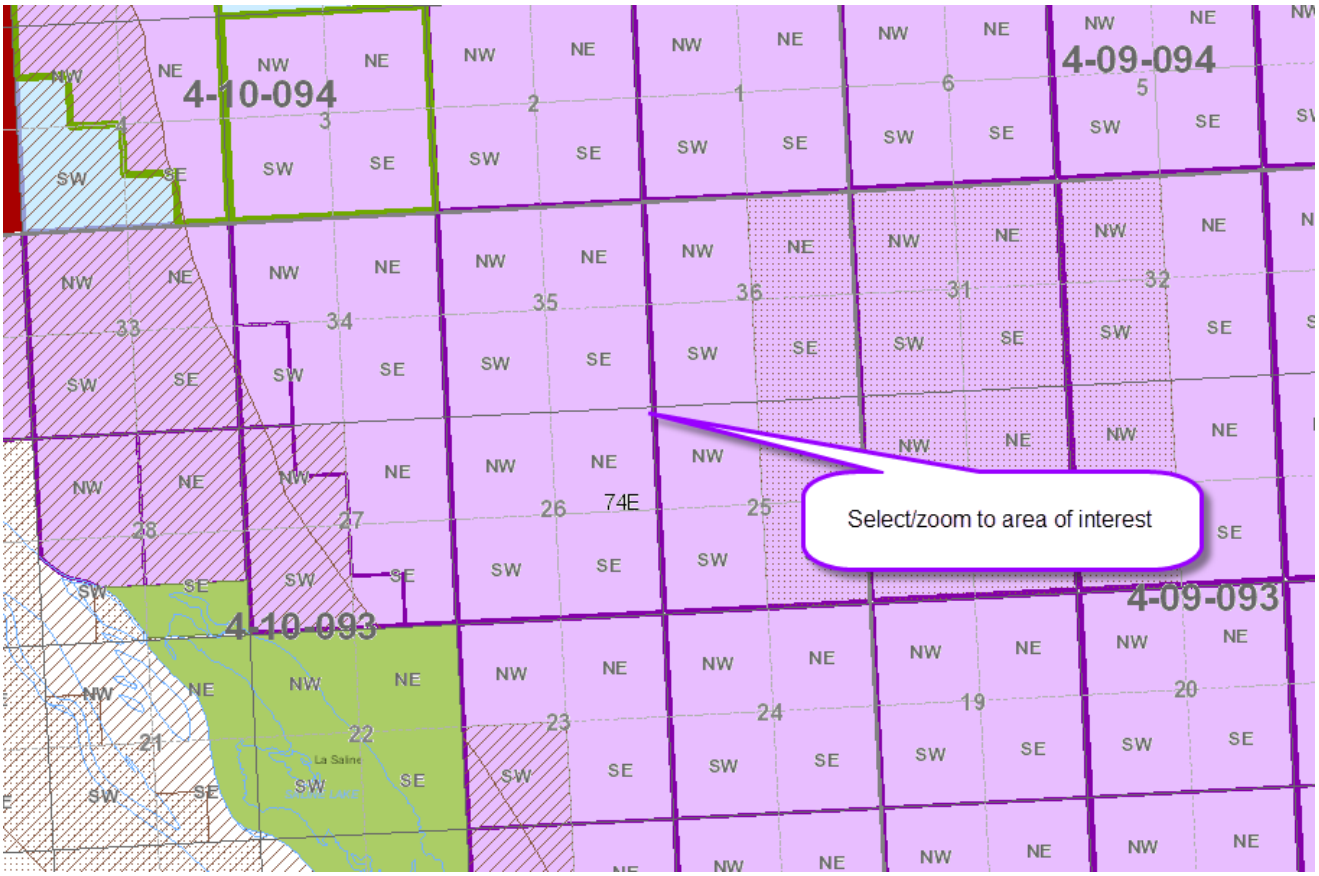
Tract: 00

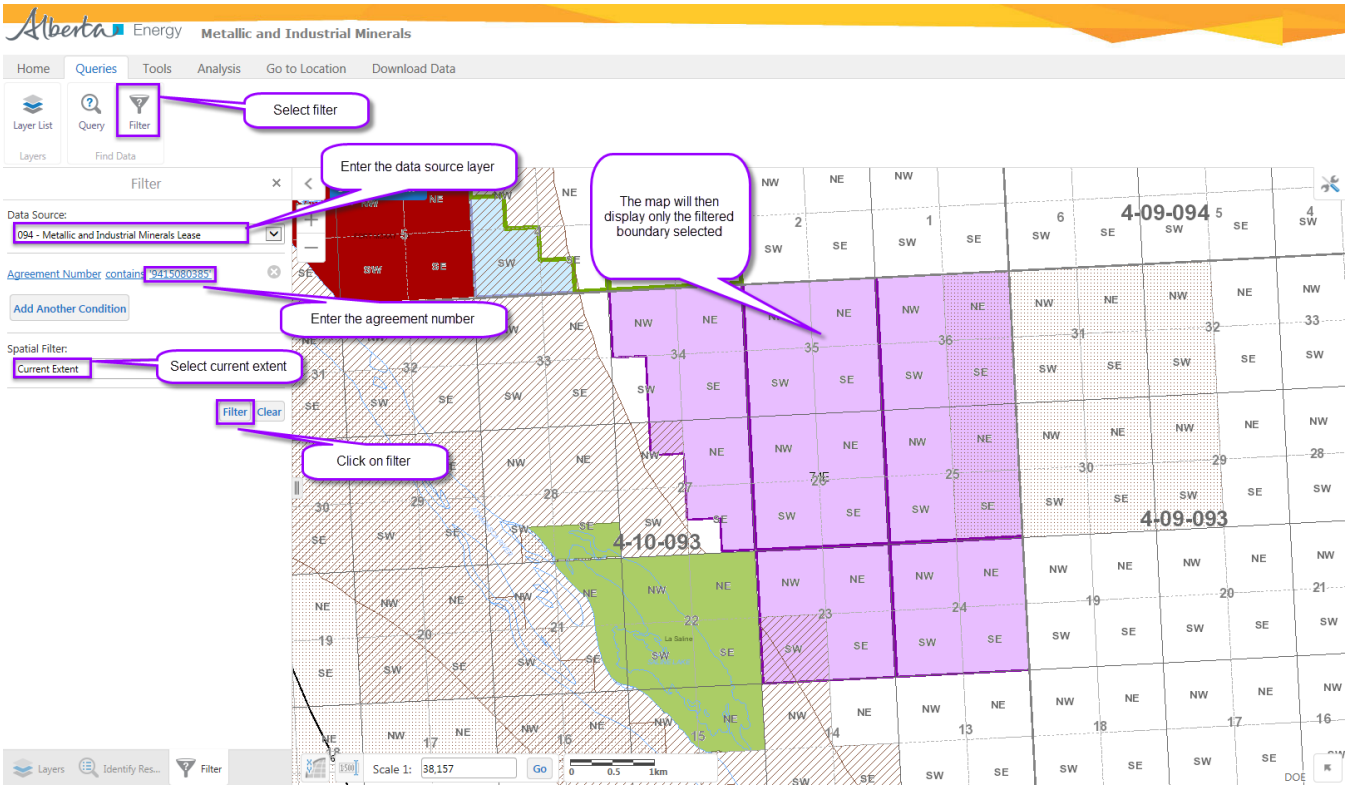
5-18-068: 1-15; 18; 19; 22-36

METALLIC AND INDUSTRIAL MINERALS

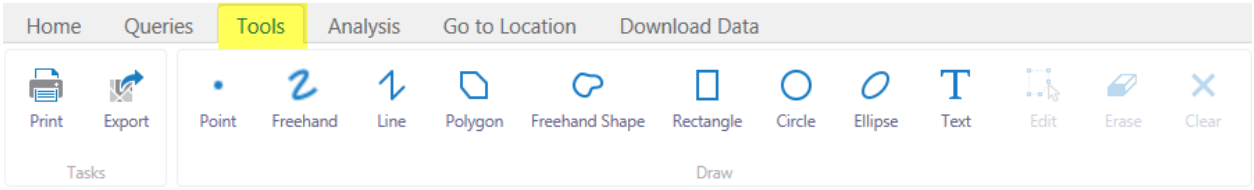
How to use – Filter







TOOLBAR TAB – TOOLS



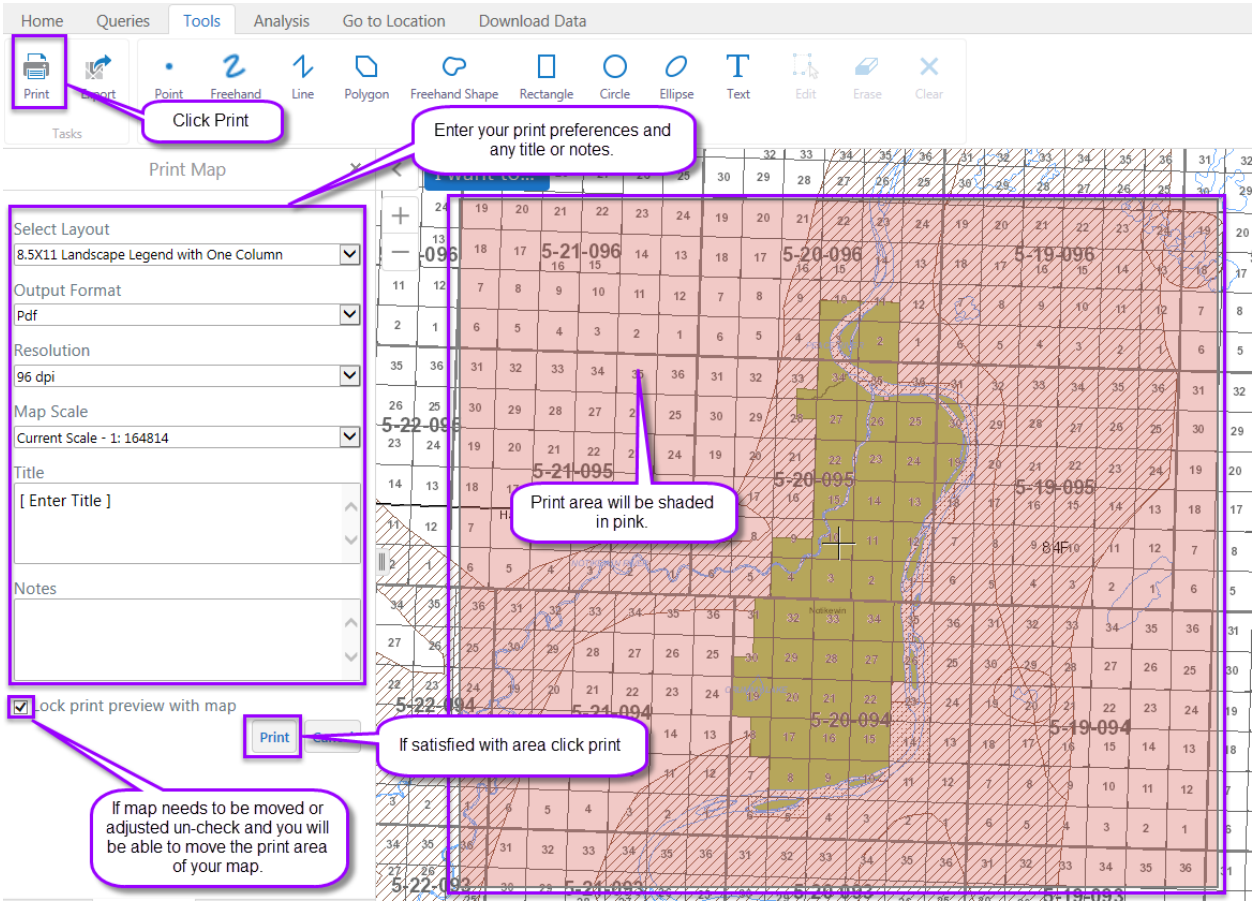
Use these	To:
Print	Open the Create a Printable Map dialog box where you can select the Layout, Output Format, Resolution, and Scale to print the map.
Export	Open the Export a Map Image dialog box and select the image format that you want to export the map into. You can export to BMP, JPEG, PNG, TIFF, GeoTiff and PDF Image formats.
Point	Draw a point on the map. The shape, size, colour and transparency of the point can be set using tools that appear on the toolbar when you select one of the drawing tools.
Freehand	Draw freely on the map in any direction. The style, thickness, colour, and transparency of the line can be set.

Line	Draw a straight line or click to change the line and draw in a new direction. The style, thickness, colour, and transparency of the line can be set.
Polygon	Draw a polygon on the map, clicking to change direction. Double-click to stop drawing. You can set the thickness, colour, and transparency of the border and the colour and transparency of the fill.
Freehand Shape	Drawing freely on the map for irregular shapes for such as portions of land. The style, thickness, colour, and transparency of the line can be set.
Rectangle	Draw a rectangle on the map. Click and drag across the map. You can set the thickness, colour, and transparency of the border and the colour and transparency of the fill.
Circle	Draw a circle on the map. Drag into the center or outwards to change the size of the circle. You can set the thickness, colour, and transparency of the border and the colour and transparency of the fill.
Ellipse	Draw an ellipse on the map. Drag in different directions to change the shape and size of the ellipse. You can set the thickness, colour, and transparency of the border and the colour and transparency of the fill.
Text	Add text to the map. When text is selected the snapping and style buttons will display. Click on the map and type the text. You can change the font, size, colour, transparency and angle of the text. You can add multiple lines of text and select layer and field information to add to the label.
Enable Snapping	Snapping tools are enabled when text button is selected. The user may enable or disable snapping by clicking the Enable Snapping button.
Select Snapping Layers	The user may choose which layers are affected by snapping by clicking the Select Snapping Layers button. When enabled, snapping allows the user to precisely draw shapes on the map by snapping to the nearest point, vertex or edge of an existing shape within a configurable radius around the mouse pointer
Styles	You can change the font, size, transparency. You can add multiple lines of text and select layer and field information to add to the label.
Edit	Edit the points of a drawing on the map. When you click on the drawing you want to edit, the points activate and you can then drag any of the points in any direction to change the shape of your drawing. You can also rotate the drawing by clicking and dragging the square above the marquee in the middle of the graphic.
Erase	Remove drawings from the map one at a time by clicking on each one.

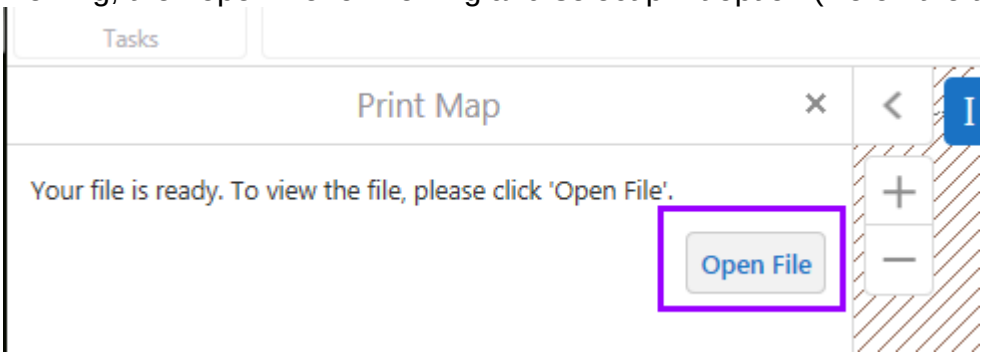
✕ Clear	Clear all the drawings on the map at the same time.

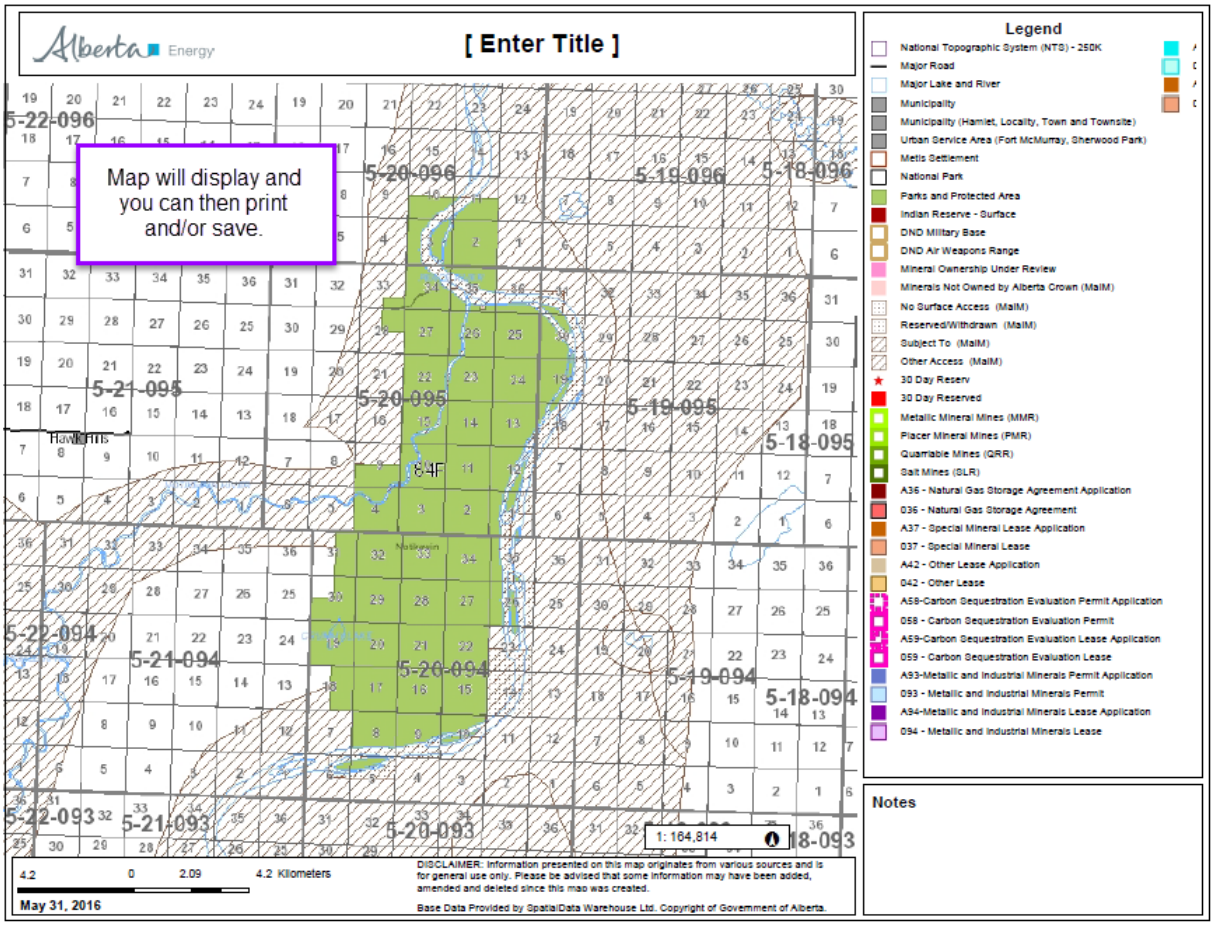
How to create a printable map – map in formatted style

You can change the title and add notes on the map. All the changes to the map can be printed to PDF. The visible area of the map is the area which will appear in the created PDF map.

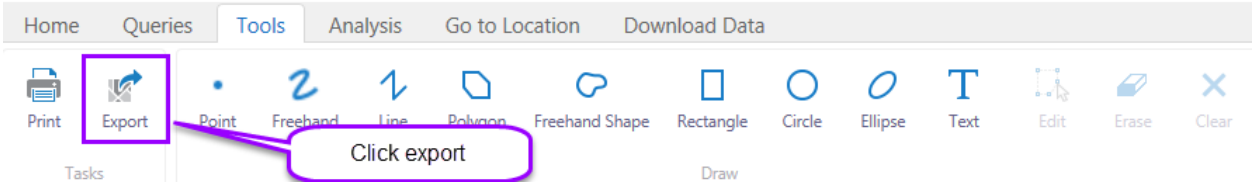


Your map will run in the background and notify you in the information panel that it is ready for viewing, then open file for viewing and select print option (file on the toolbar).

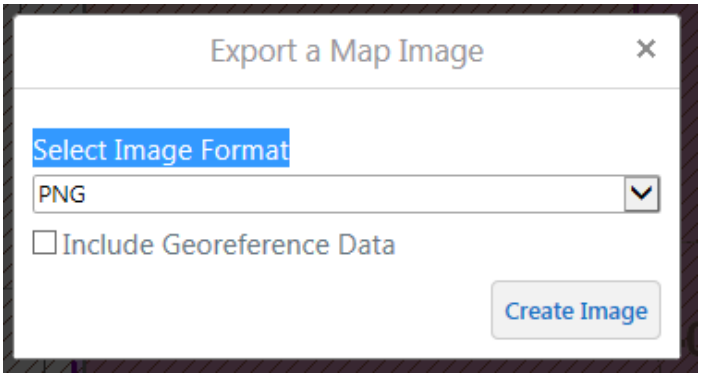


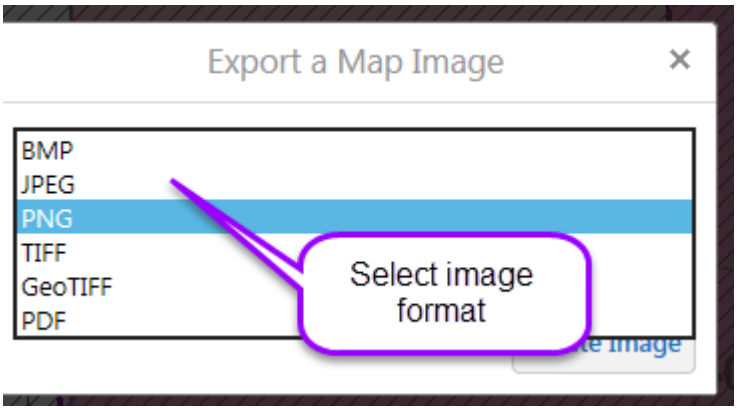


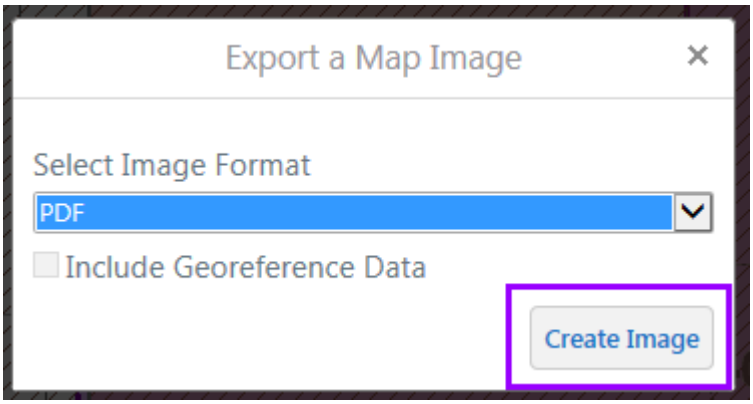
How to export a map – map in non-formatted style

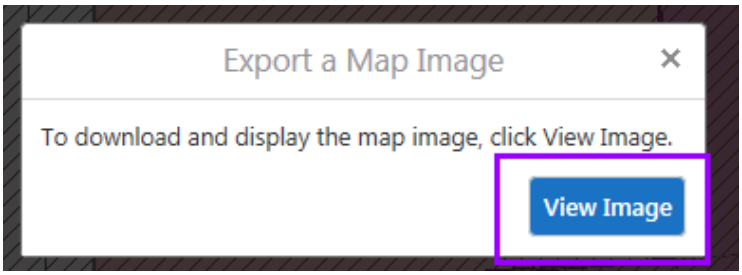


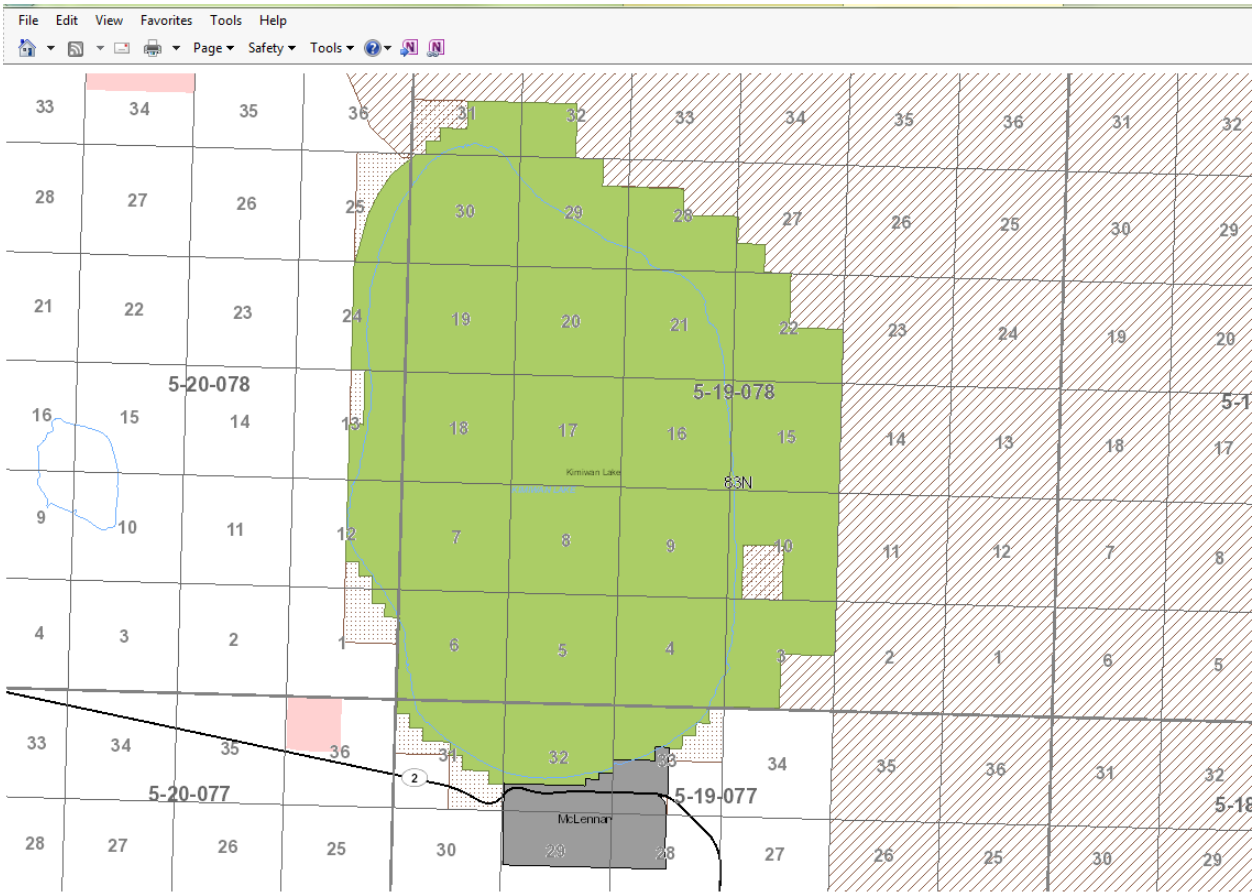
Export a map image pop up will display.


Export a Map Image
Select Image Format
PNG
Include Georeference Data
Create Image


Export a Map Image
BMP
JPEG
PNG
TIFF
GeoTIFF
PDF
Select image format


Export a Map Image
Select Image Format
PDF
Include Georeference Data
Create Image


Export a Map Image
To download and display the map image, click View Image.
View Image

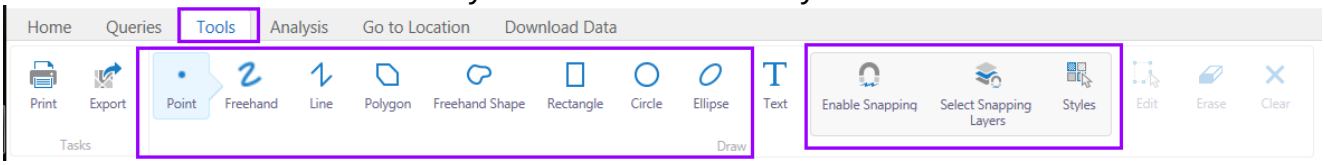


You can then print or save image.

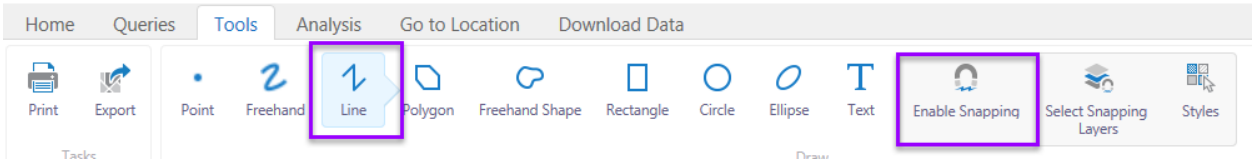
How to use draw tools – drawing and Text

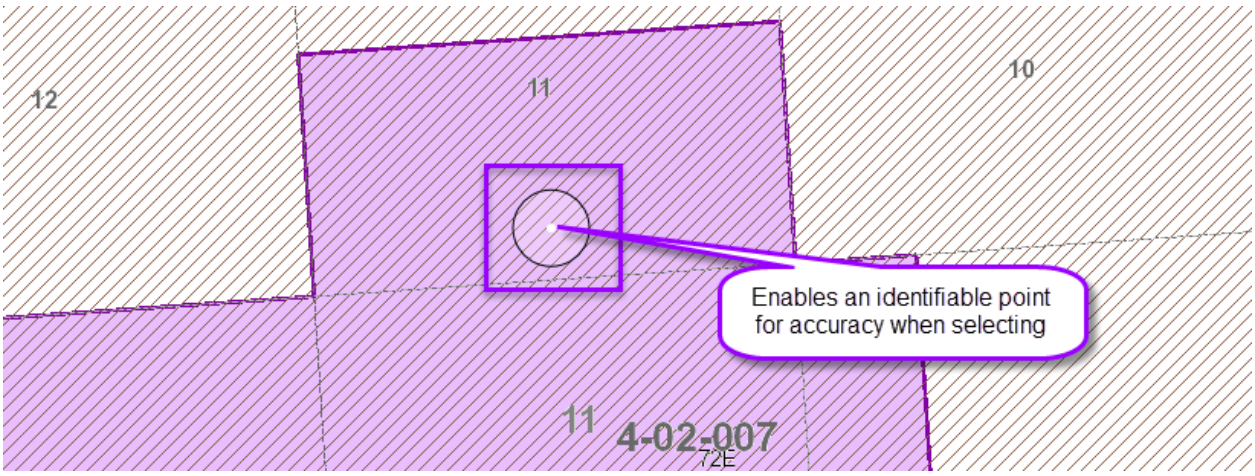
Different shapes and text can be added to the map but these are temporary. Leaving or refreshing the session will clear. These tools are used on the map for the purpose of printing.

Based on the draw tool selected you can also select a style.

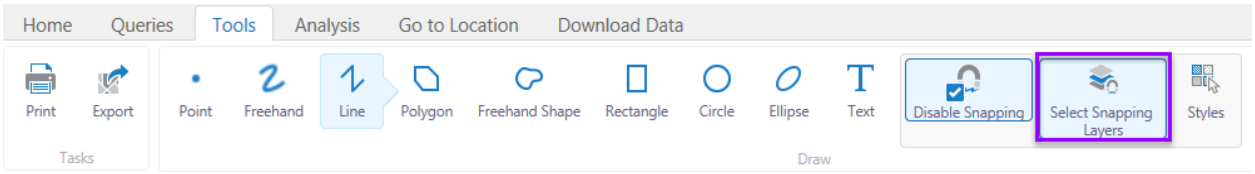


Enable Snapping
Snapping is useful when you are drawing a polygon and want it to follow the lines in another graphic, displays a point indicator.

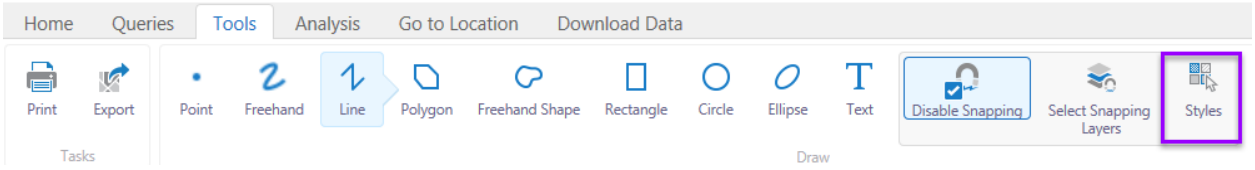




Select Snapping Layers



Styles

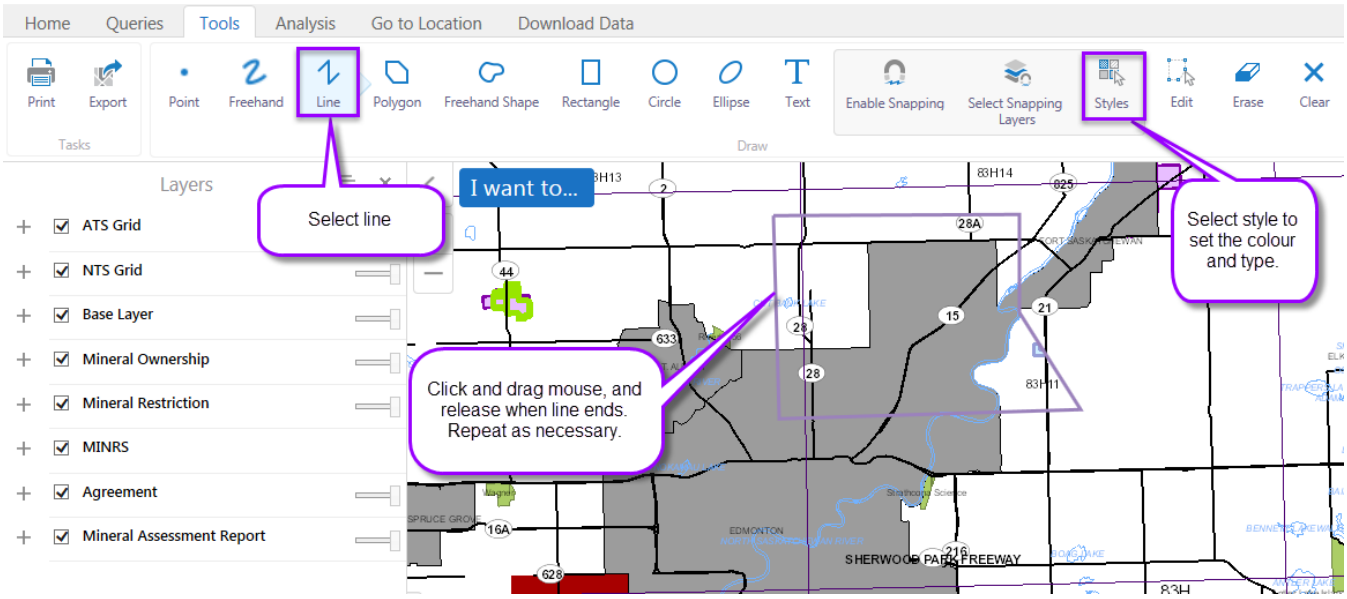


User must select the type of drawing tool for the style options to display.

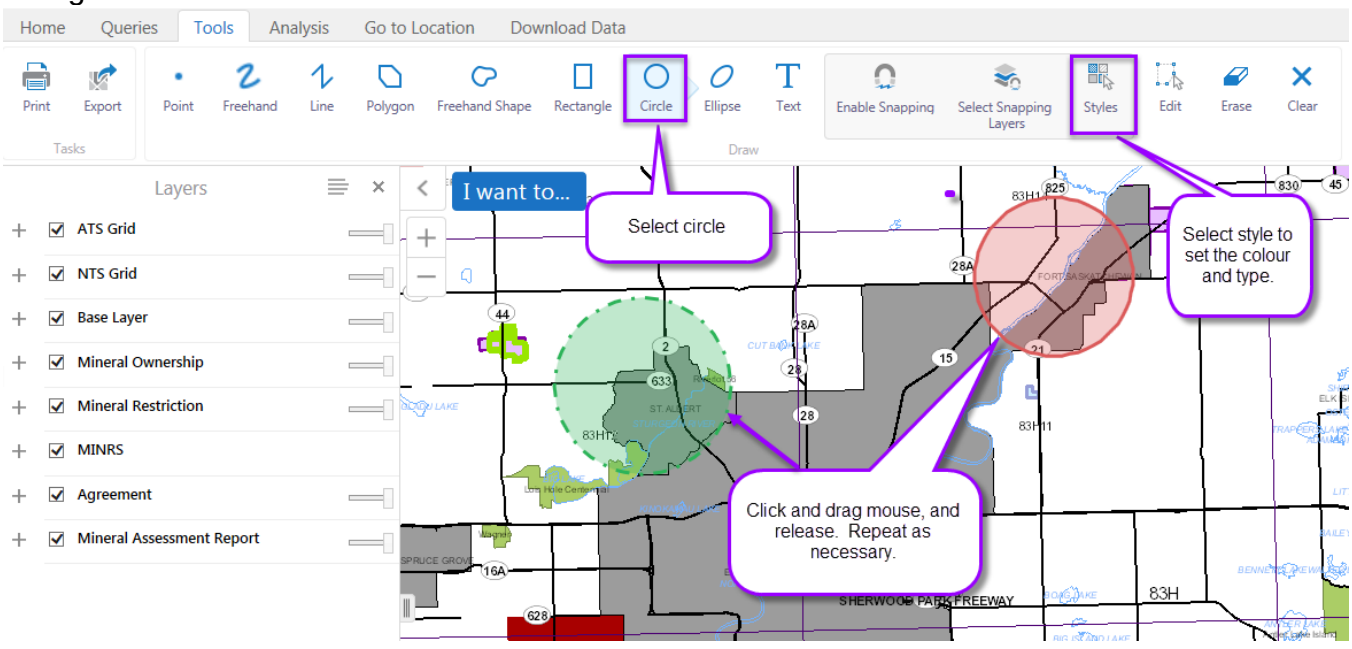
Example if draw tool selected is freehand the style options are.

Example if draw tool selected is rectangle the style options are.

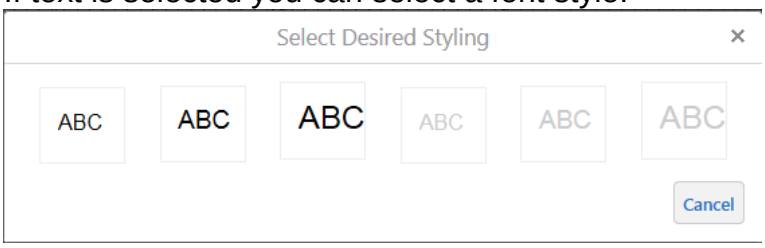
Using the line



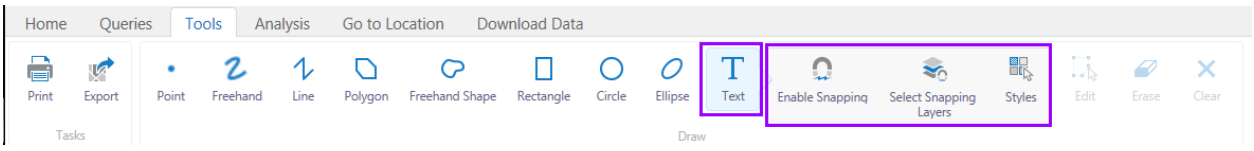
Using the circle

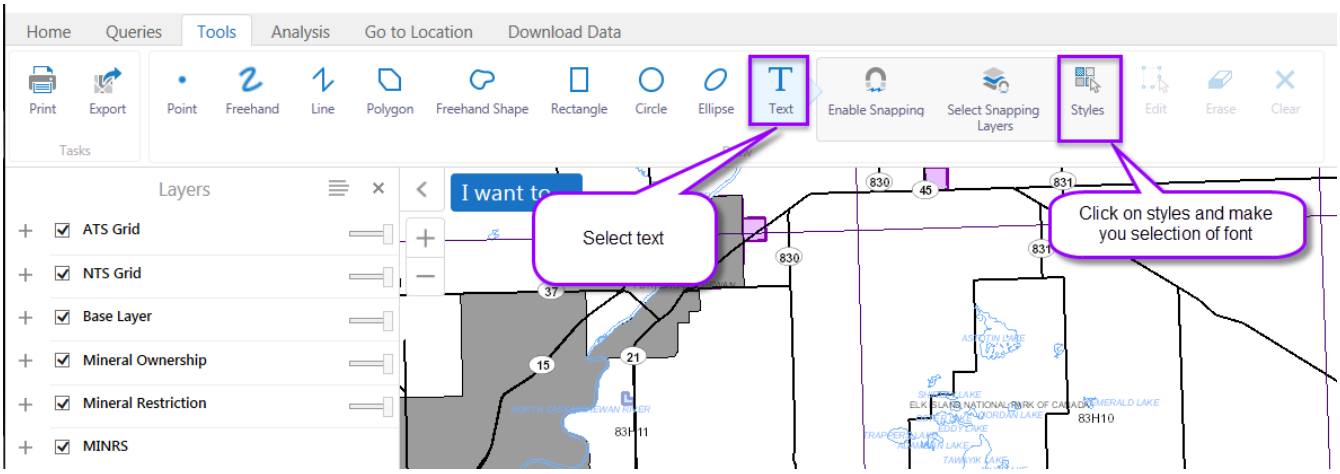


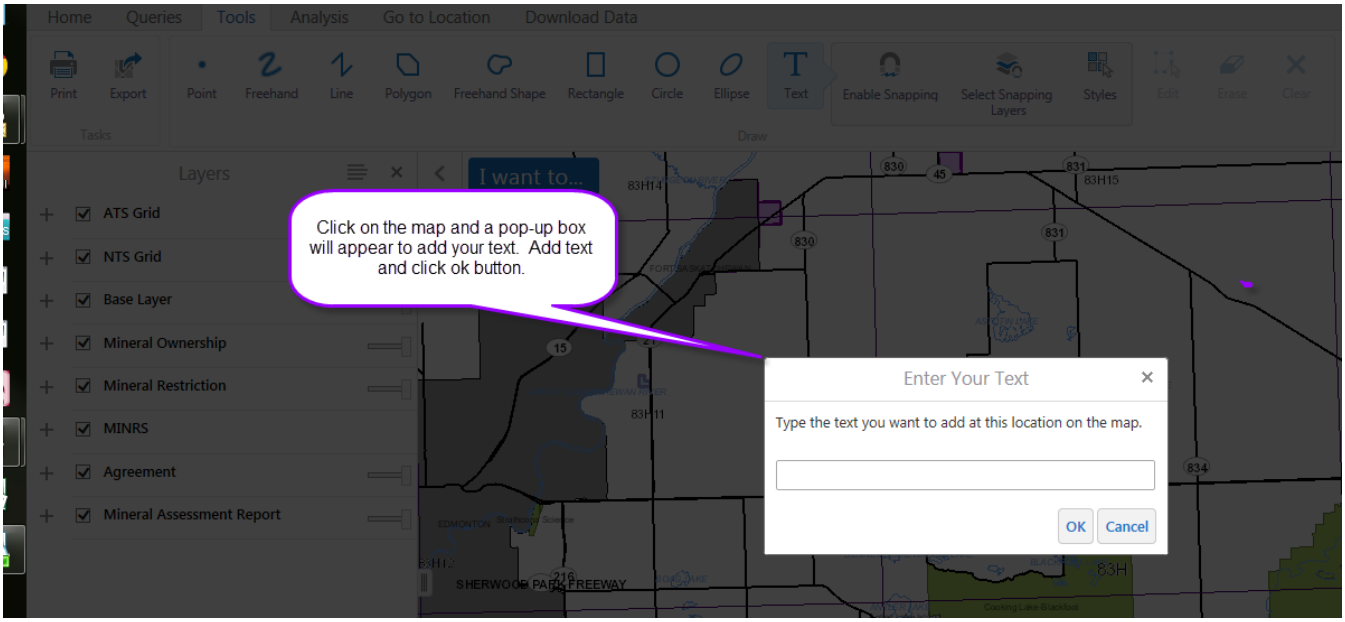
If text is selected you can select a font style.



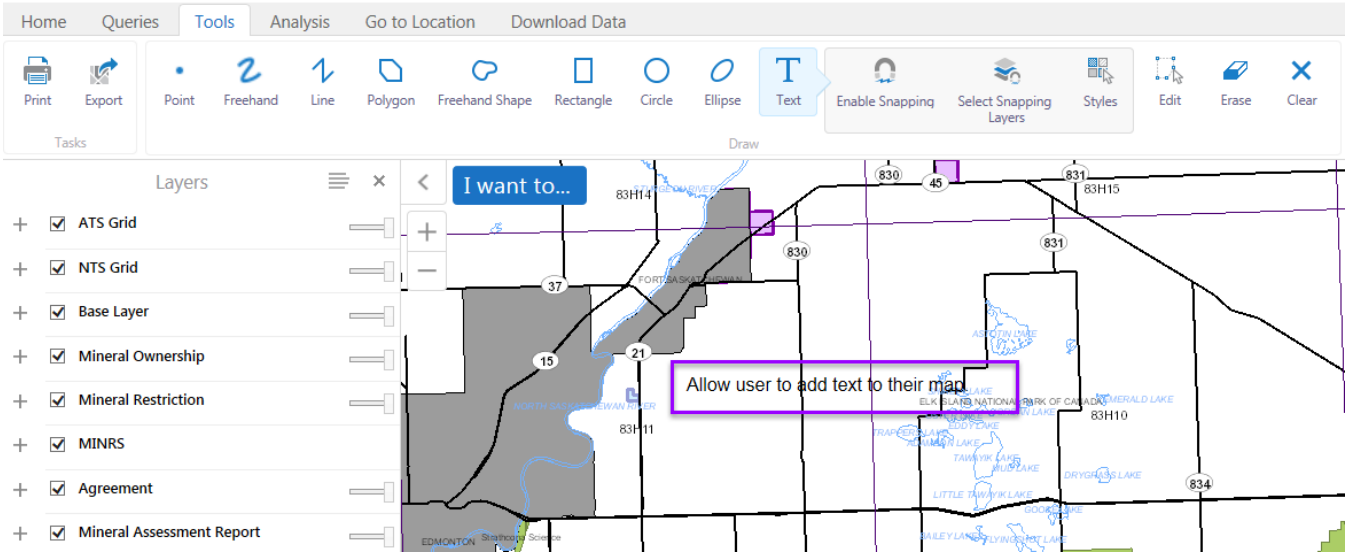
***Note**: There is no option currently that will allow the user to select font style size or colour.*



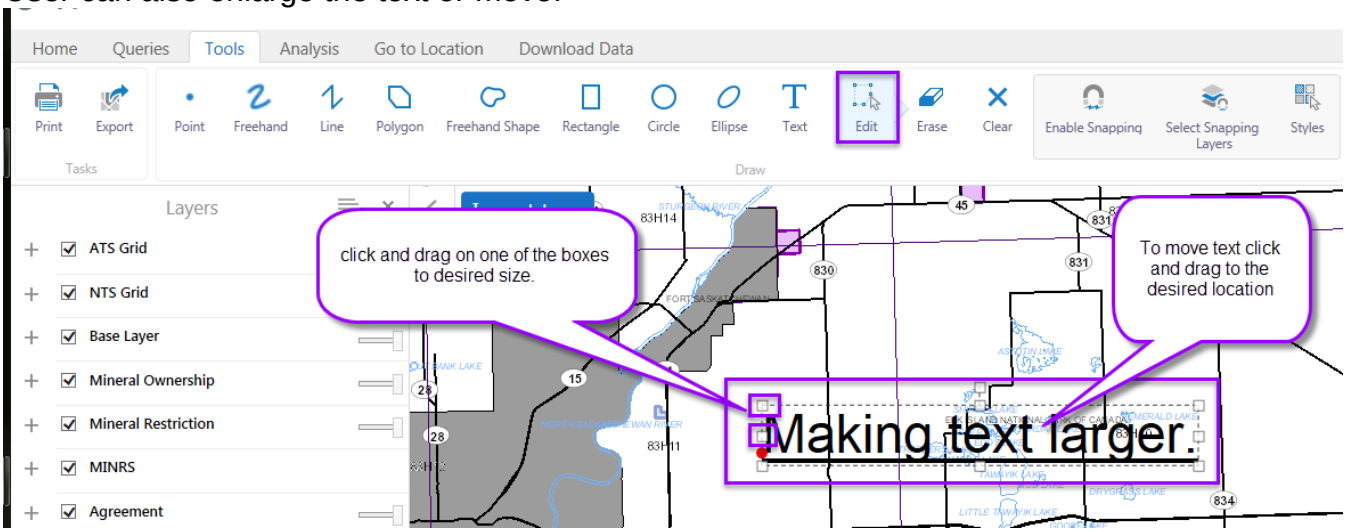



Home
Queries
Tools
Analysis
Go to Location
Download Data
Print
Export
Tasks
Point
Freehand
Line
Polygon
Freehand Shape
Rectangle
Circle
Ellipse
Text
Draw
Enable Snapping
Select Snapping Layers
Styles
Edit
Erase
Clear
Layers
I want to...
ATS Grid
NTS Grid
Base Layer
Mineral Ownership
Mineral Restriction
MINRS
Agreement
Mineral Assessment Report
Click on the map and a pop-up box will appear to add your text. Add text and click ok button.
Enter Your Text
Type the text you want to add at this location on the map.
OK
Cancel
SHERWOOD PARK FREEWAY
EDMONTON

Text will display.

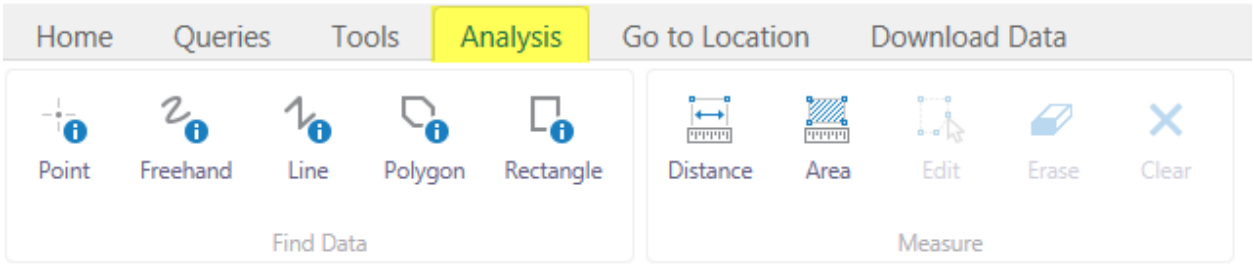


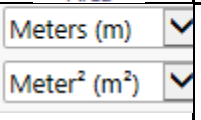
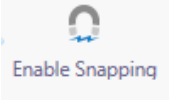
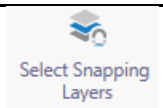
User can also enlarge the text or move.



To edit/remove any drawing or text data put on the map you can use the edit, erase or clear functions.

TOOLBAR TAB – ANALYSIS

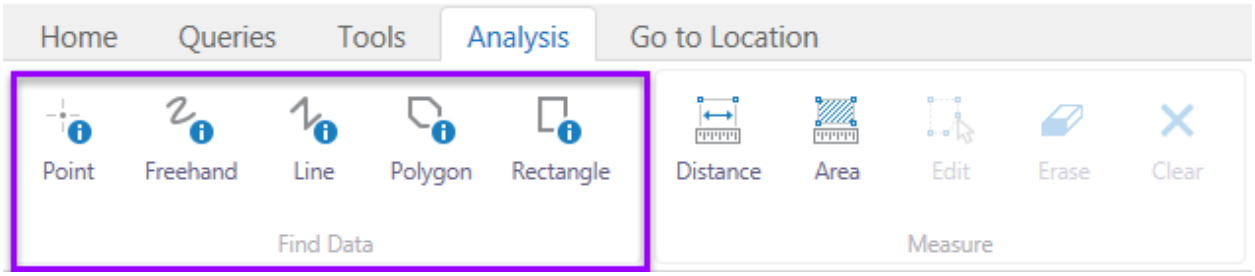


Use these	To:
Point	Identify data at a particular point anywhere on the map. All the features beneath the point you click are listed in the Results List.
Freehand	Identify features by drawing a line in any direction on the map. All the features that intersect with the line you draw are listed in the Results List.
Line	Identify features by dragging a line in any direction on the map. All the features that intersect with the line you draw are listed in the Results List.
Freehand	Identify features by drawing a segmented shape over an area on the map. All the features beneath the shape you draw are listed in the Results List.
Rectangle	Identify features by drawing a rectangle over an area on the map. All the features beneath the shape you draw are listed in the Results List.
Distance	Measure distances on the map by drawing a segmented line.
Area	Measure an area of the map by drawing a shape.
 Meters (m) Meter² (m²)	When distance/area is selected the units and snapping buttons will display. Change the unit of measurement on a drawing to other options like Kilometers, Hectares, Acres, etc.
 Enable Snapping	The user may enable or disable snapping by clicking the Enable Snapping button.
 Select Snapping Layers	The user may choose which layers are affected by snapping by clicking the Select Snapping Layers button. When enabled, snapping allows the user to precisely draw shapes on the map by snapping to the nearest point, vertex or edge of an existing shape within a configurable radius around the mouse pointer.

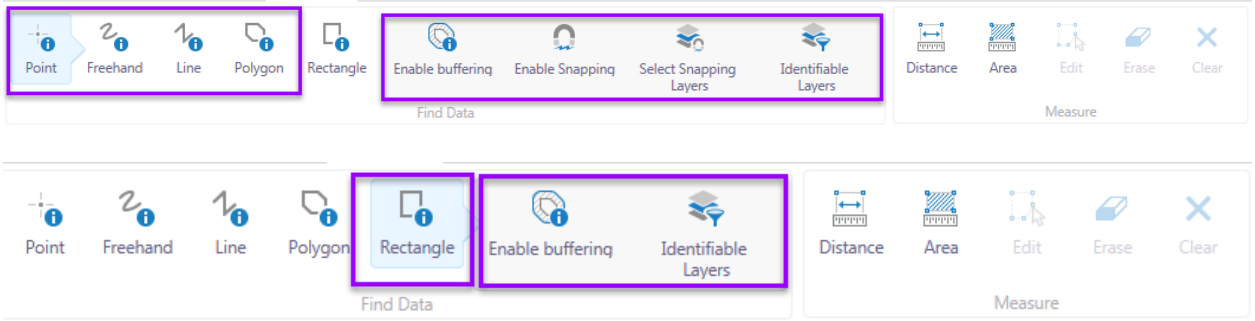
Edit	Add the distance or area measurement to the map as a drawing.
Erase	Erase a drawing by clicking it.
Clear	Clear all the drawings on the current map.

Note: *In order to enable the Drawing tools, a drawing must first be created.*

How to use identify tools – Drawing

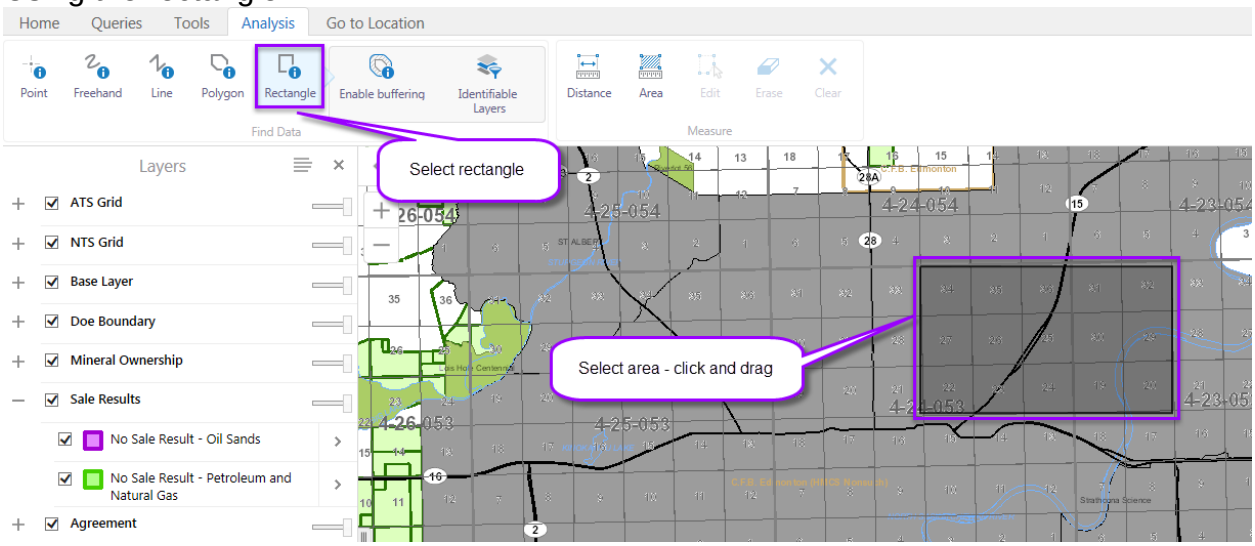


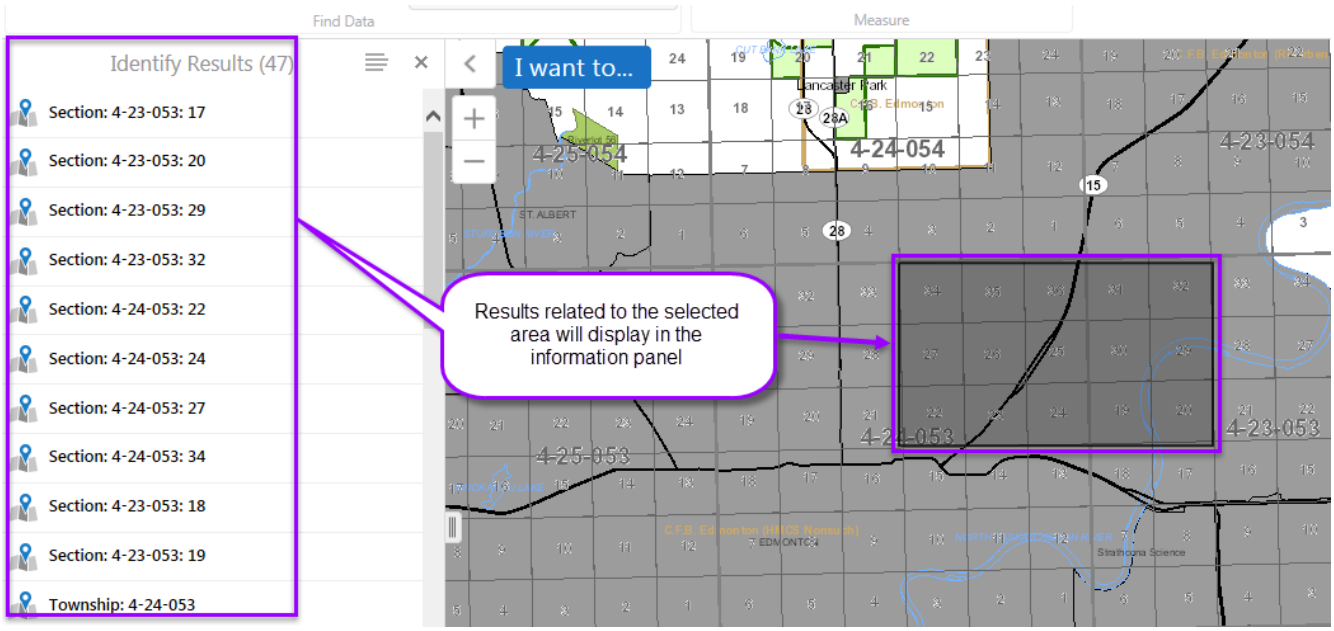
Note: When specific draw/identify button selected, addition options will display.

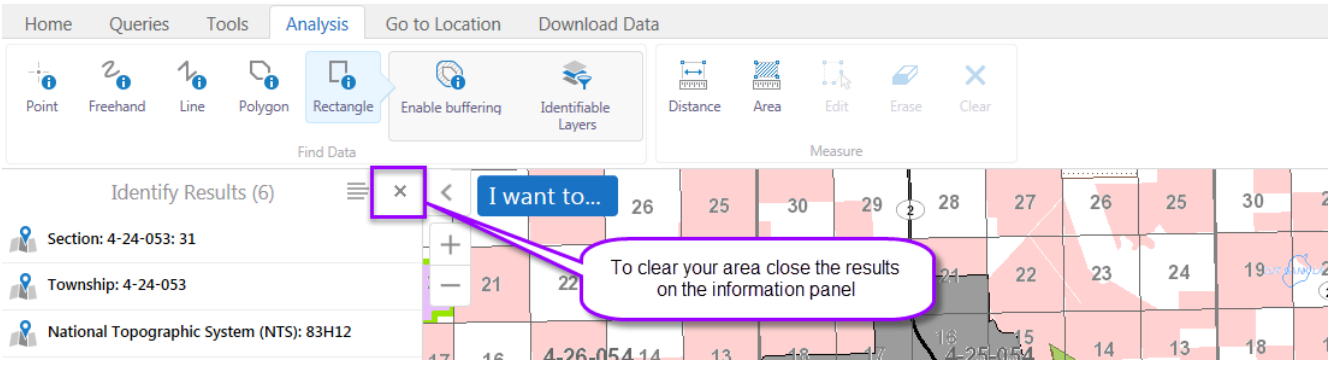


Using the point

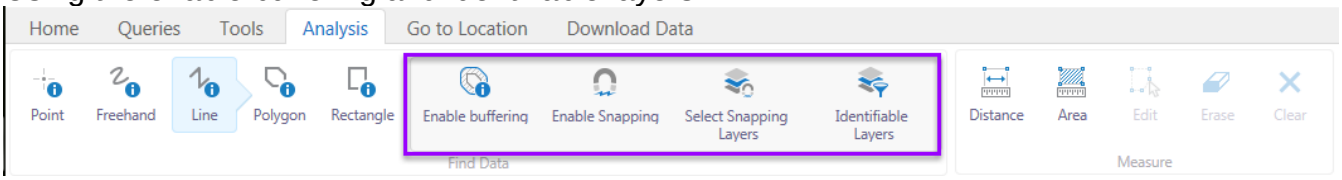
Using the rectangle



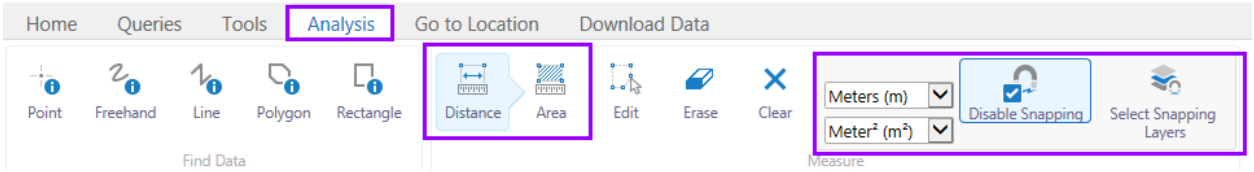




Using the enable buffering and identifiable layers

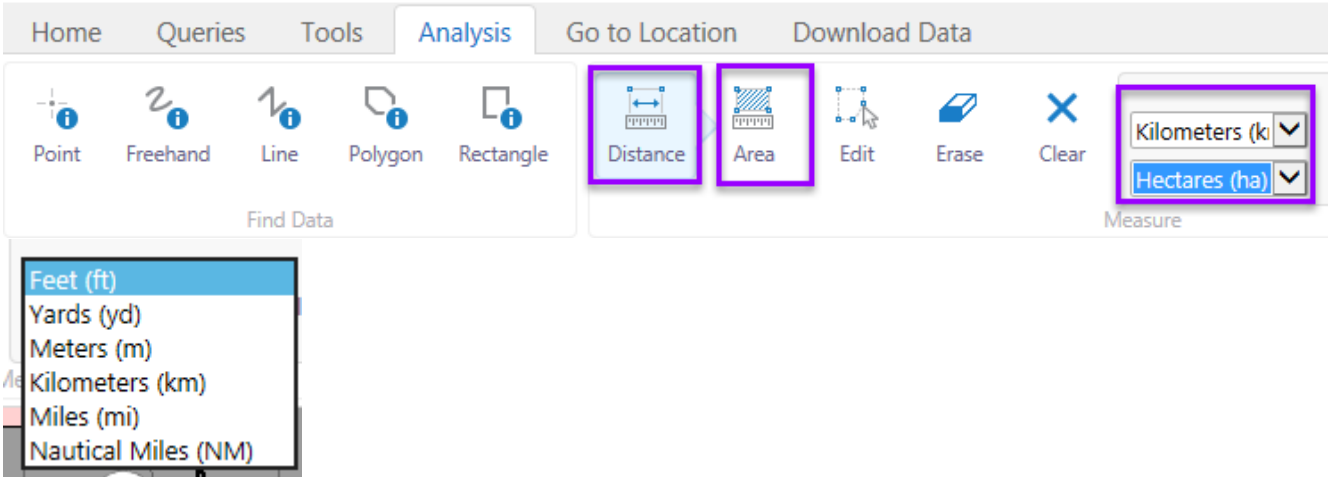


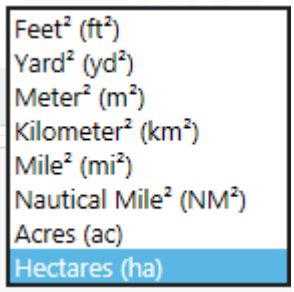
How to use – Distance and Area

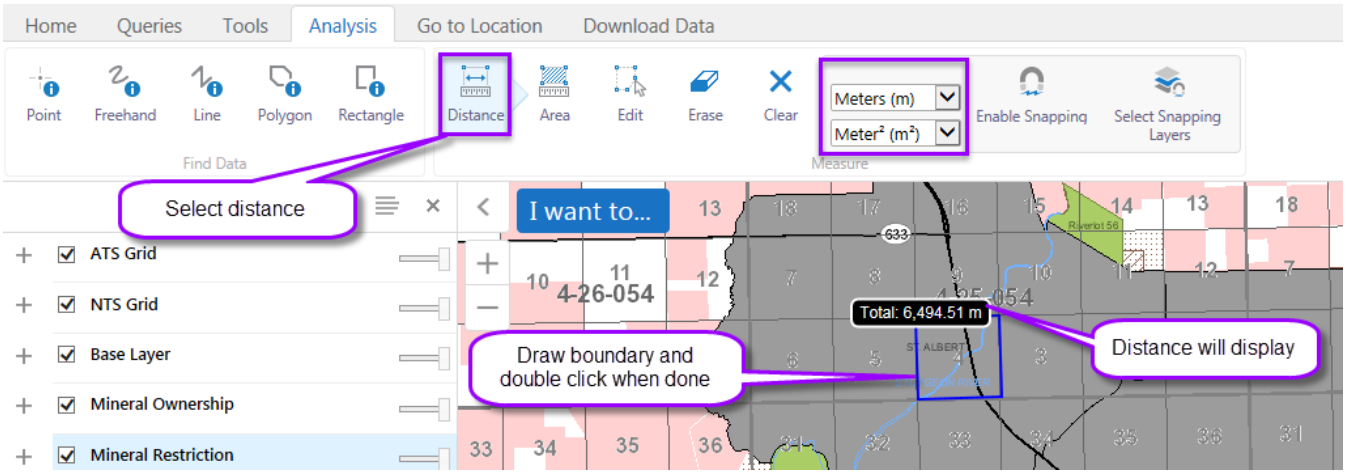


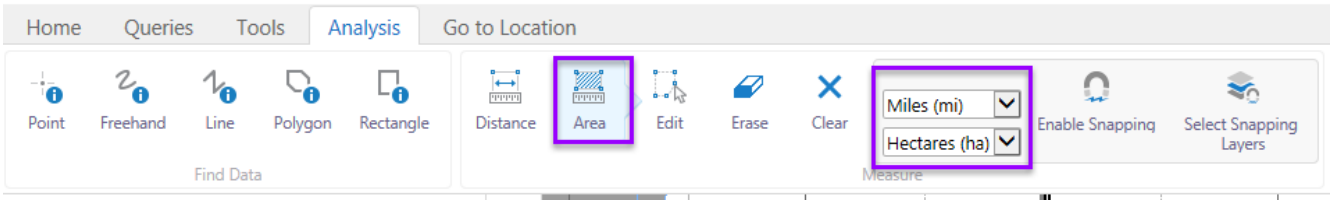
Change the unit of measurement on a drawing to other options like Kilometers, Hectares, Acres, etc.

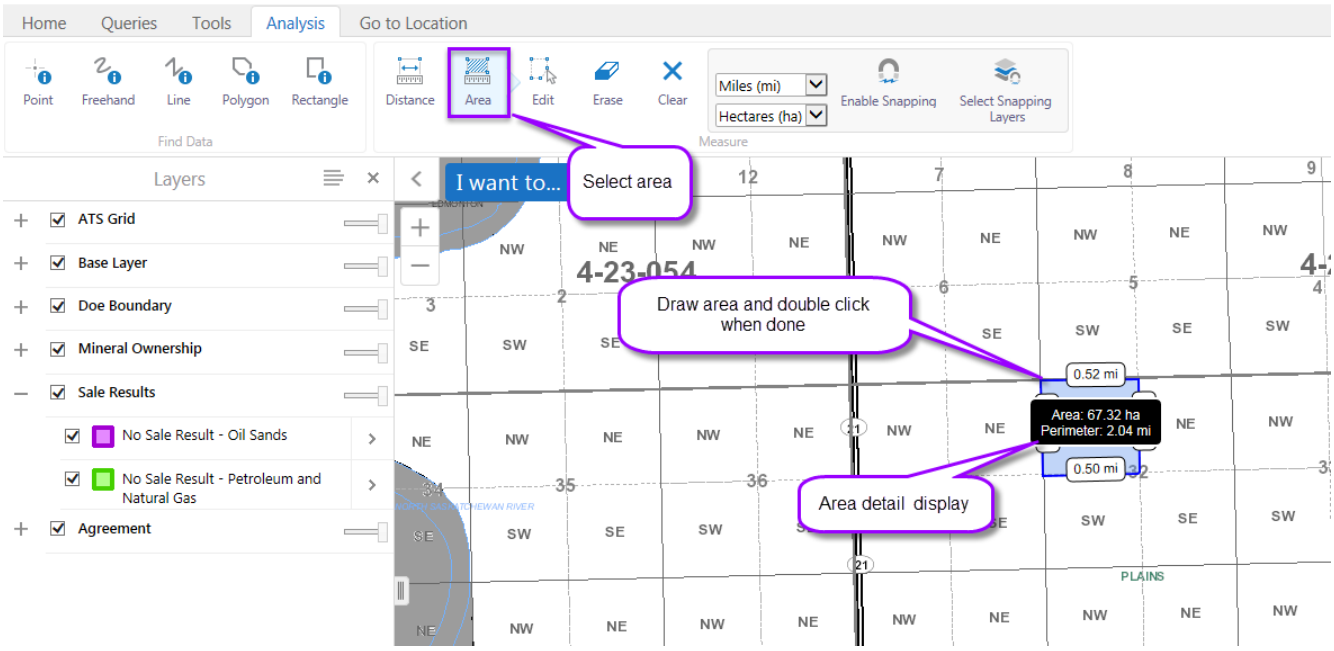
Options of measure



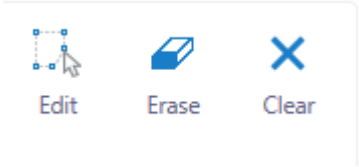




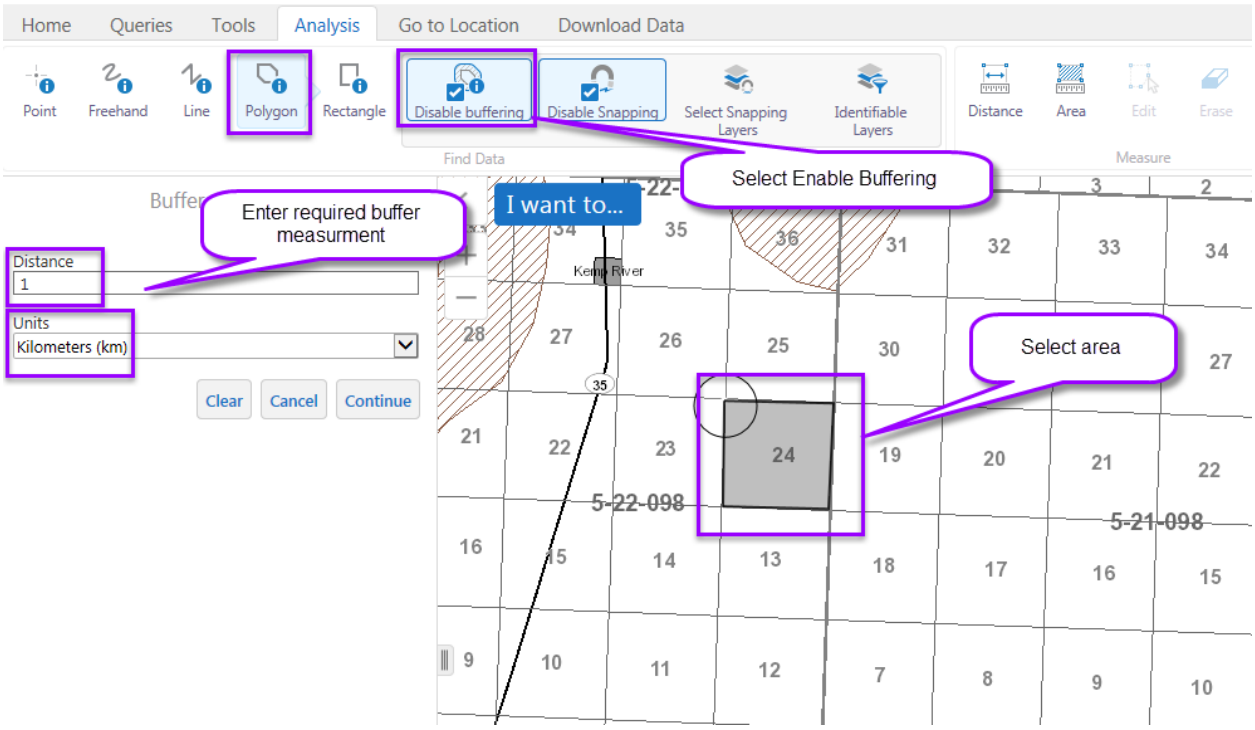


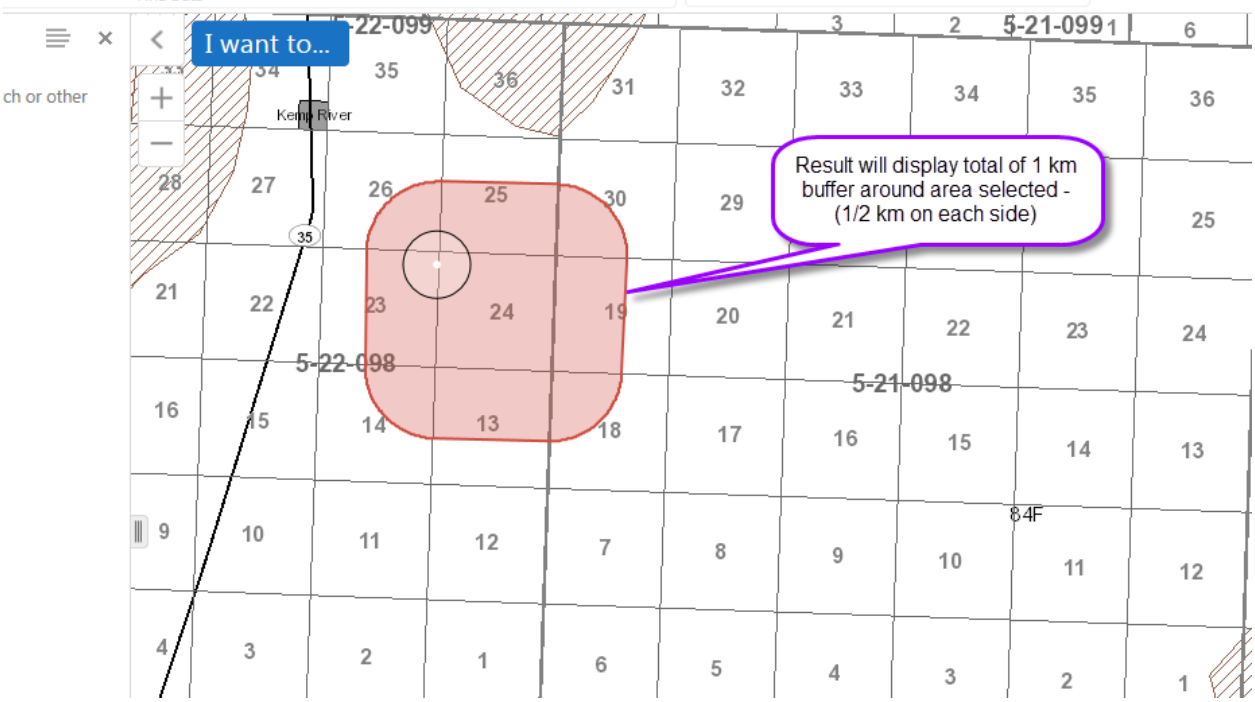


To edit/remove any drawing or text data put on the map you can use the edit, erase or clear functions.

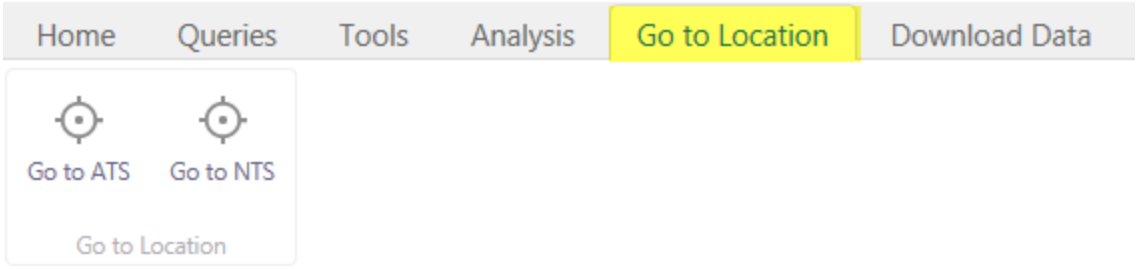


How to use – Buffering





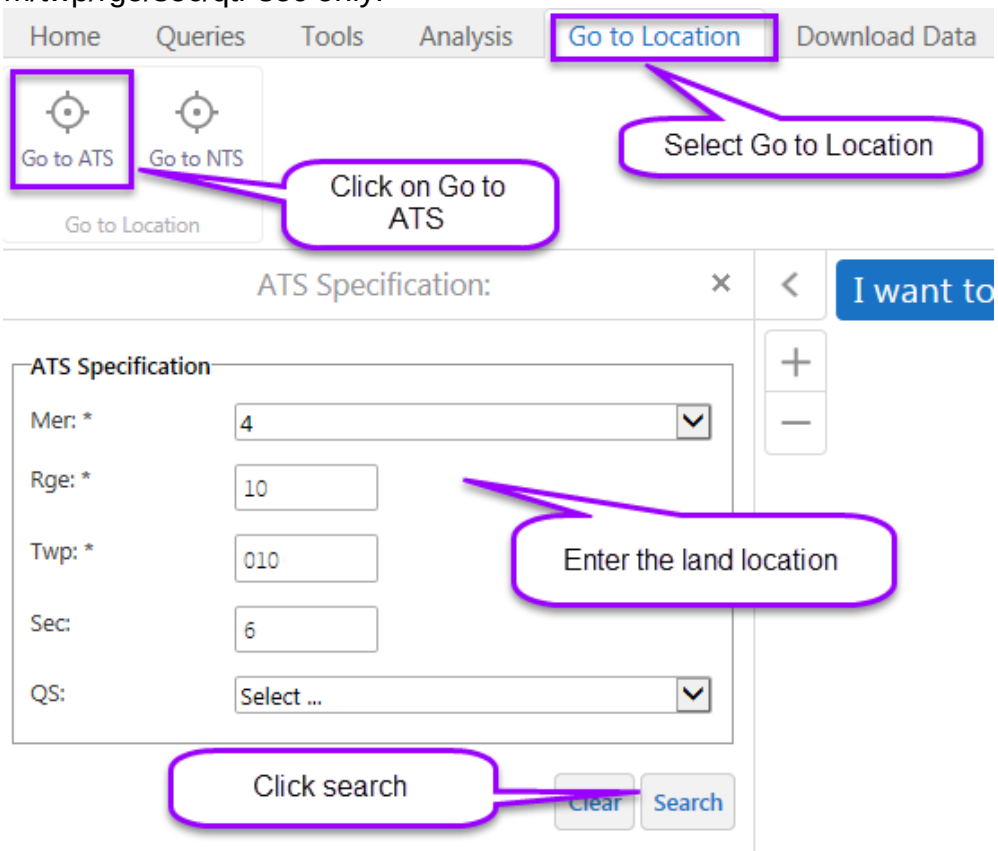
TOOLBAR TAB – GO TO LOCATION

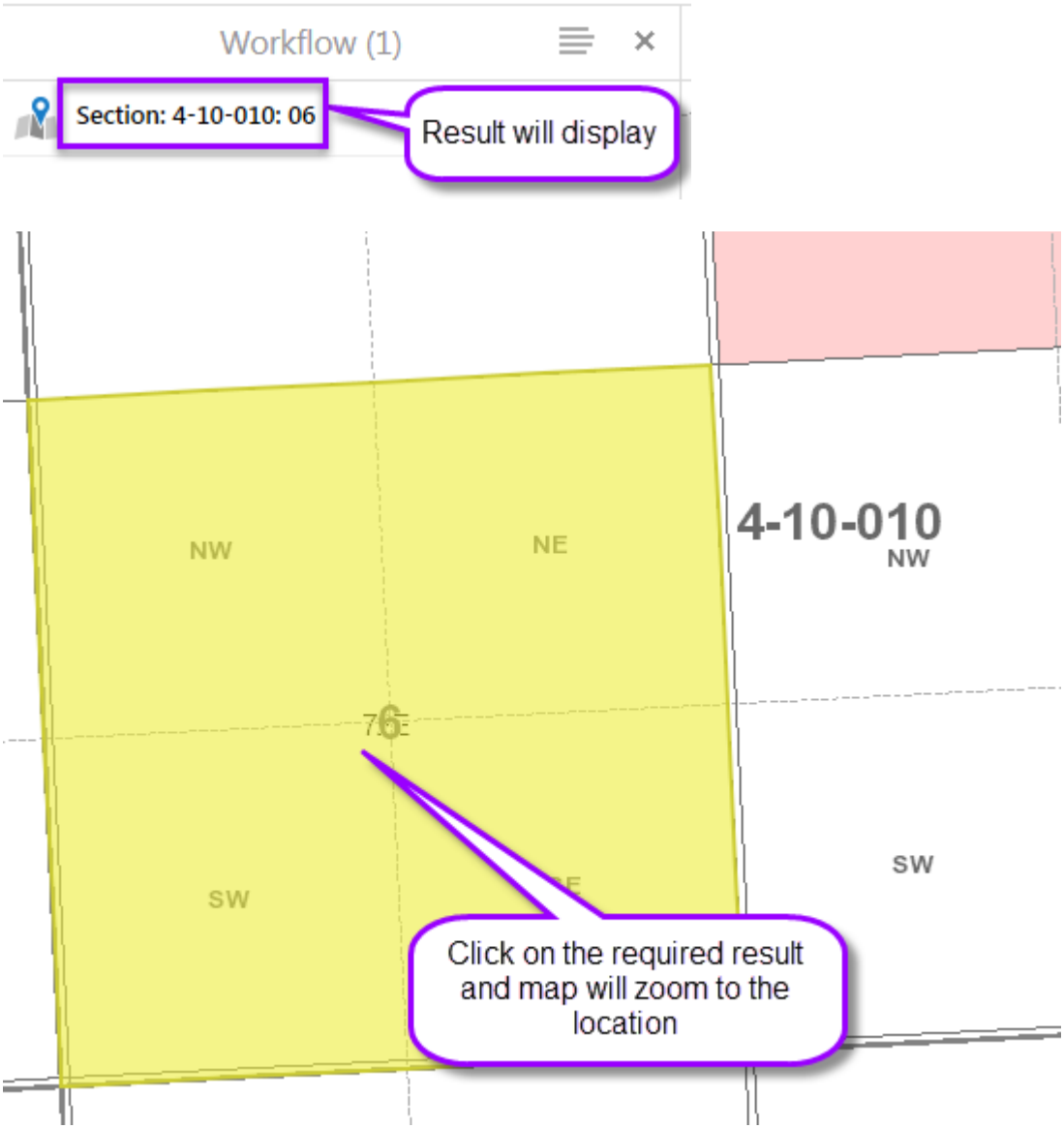


Use these	To:
Go to ATS	The Go to ATS (Alberta Township Survey) makes it possible to search by a specific land location (M/R/T: Sec, Qtr Sec)
Go to NTS	The Go to NTS (National Topographic System) makes it possible to search by a map sheet (e.g. 84F10)

How to use Go to Location – Go to ATS

User can do an Alberta Township Survey (ATS) search based on m/twp/rge, m/twp/rge/sec or m/twp/rge/sec/qtr sec only.

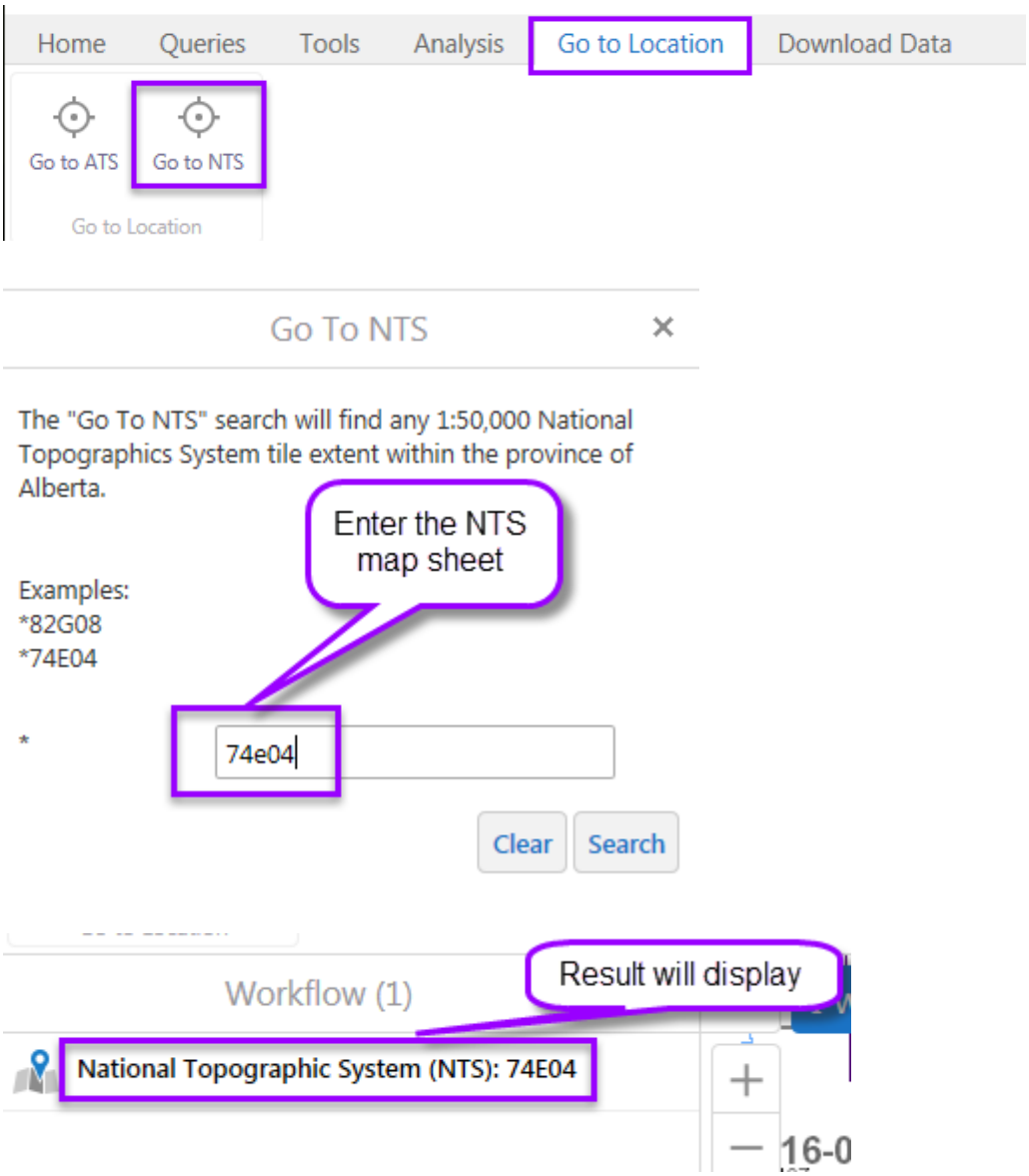


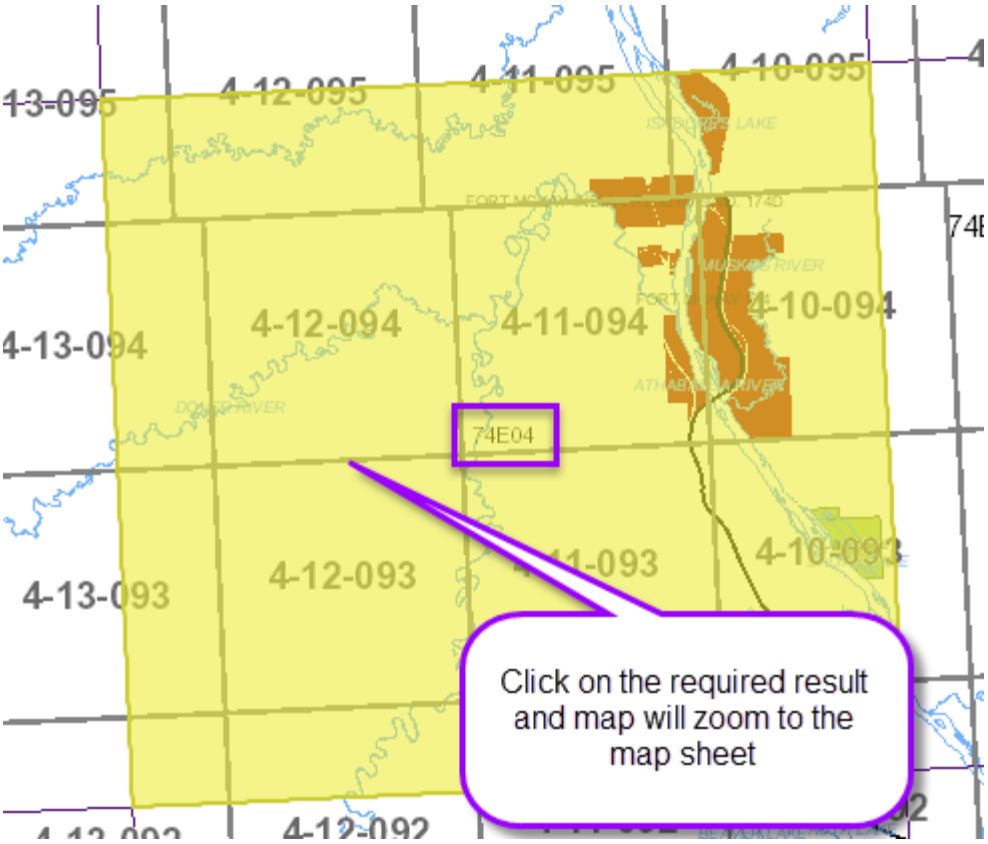


Clear does not just clear the fields returns user to the layers info????

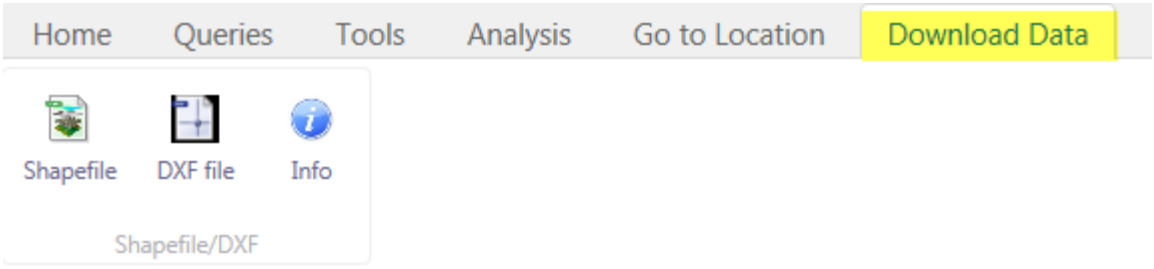
How to use Go to Location – Go to NTS

User can do a National Topographic System (NTS) search based on the NTS system used by Natural Resources Canada for providing general purpose topographic maps of the country.




4-12-095
4-11-095
4-10-095
4-13-094
4-12-094
4-11-094
4-10-094
74E04
4-13-093
4-12-093
4-10-093
Click on the required result and map will zoom to the map sheet
4-12-092

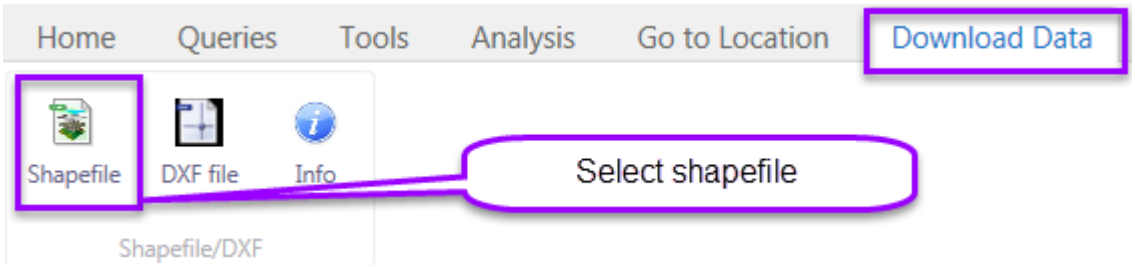
TOOLBAR TAB – DOWNLOAD DATA

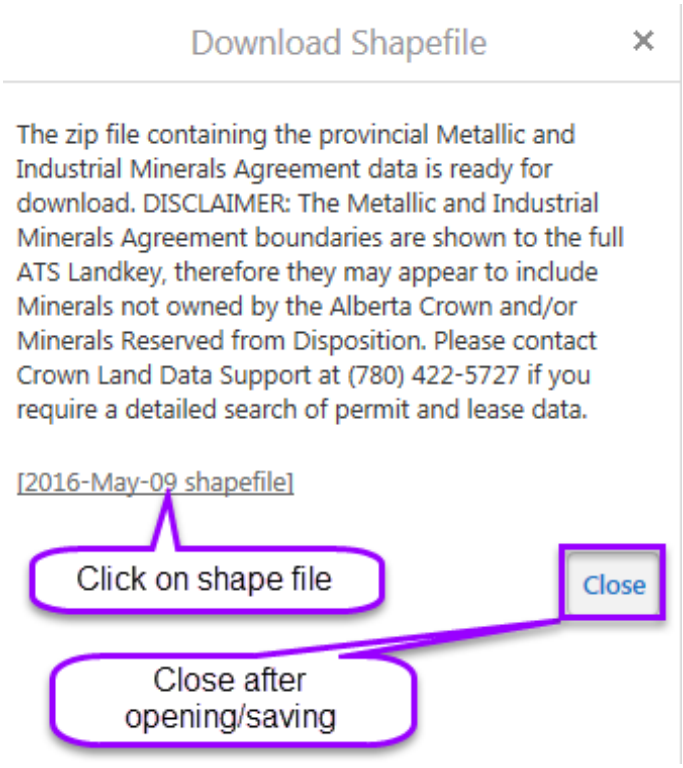


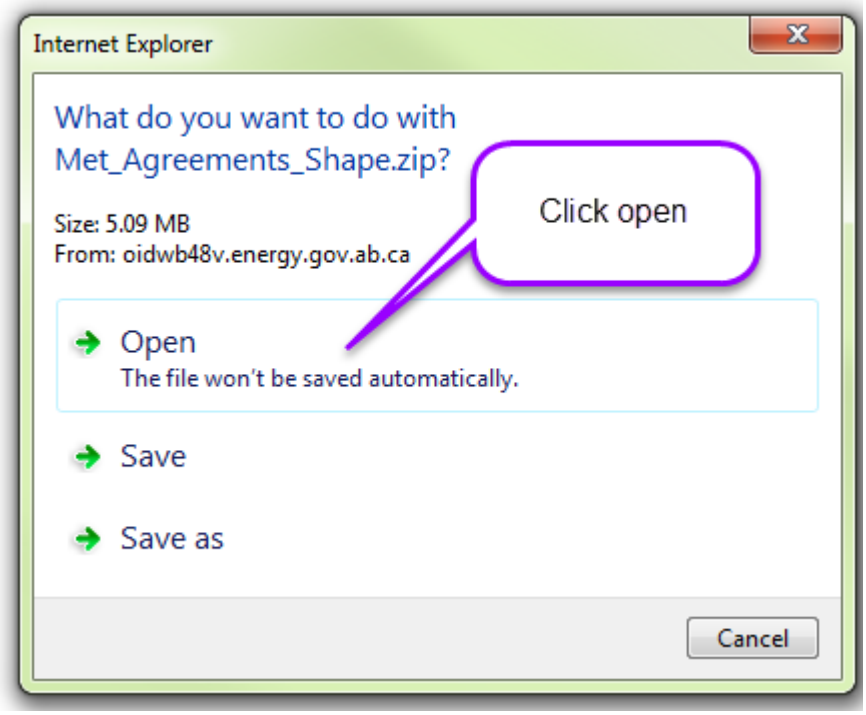
Note: *Download Data – currently only applies to Coal and Metallic and Industrial Minerals Maps.*

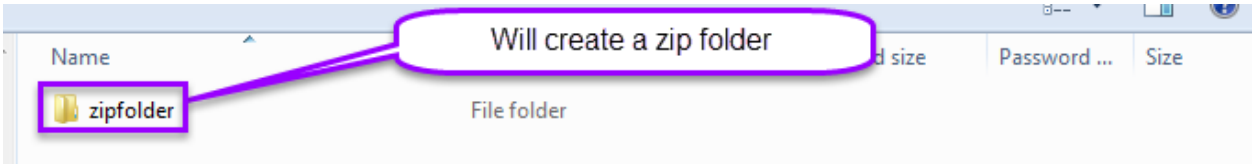
Use these	To:
Shapefile	Download the zip file containing the Coal or Metallic and Industrial Minerals Agreement data in SHAPE file format.
DXF file	Download the zip file containing the Coal or Metallic and Industrial Minerals Agreement data in DXF file format.

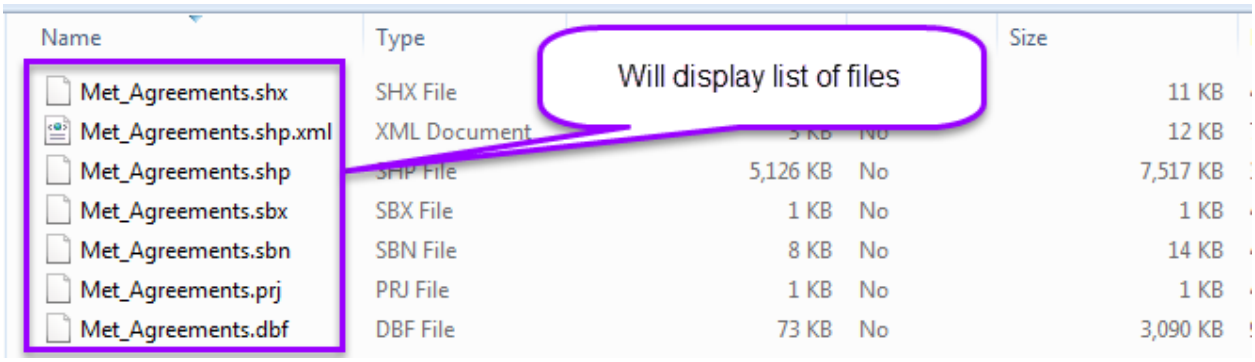
How to download shape file data



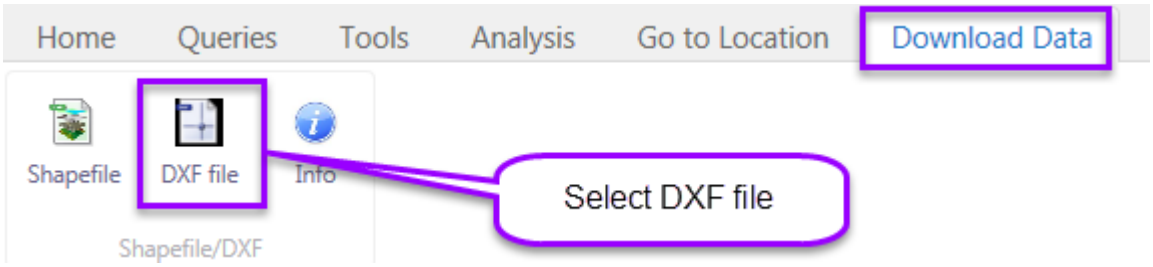

Download Shapefile
The zip file containing the provincial Metallic and Industrial Minerals Agreement data is ready for download. DISCLAIMER: The Metallic and Industrial Minerals Agreement boundaries are shown to the full ATS Landkey, therefore they may appear to include Minerals not owned by the Alberta Crown and/or Minerals Reserved from Disposition. Please contact Crown Land Data Support at (780) 422-5727 if you require a detailed search of permit and lease data.
[2016-May-09 shapefile]
Click on shape file
Close
Close after opening/saving

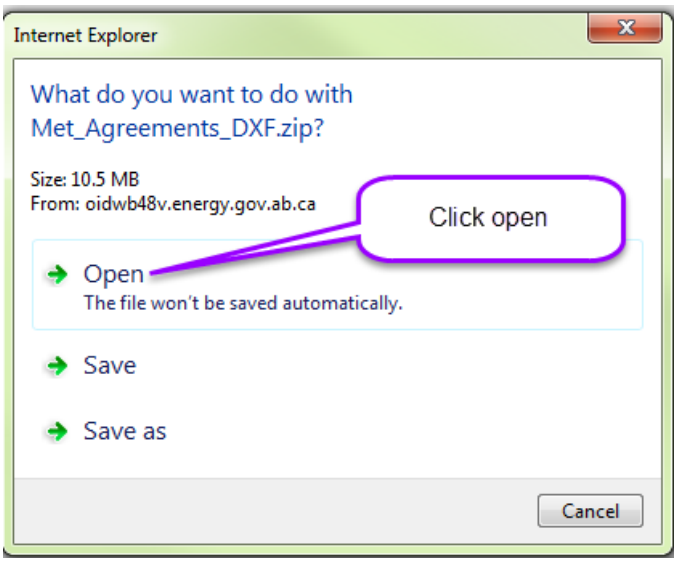

Internet Explorer
What do you want to do with Met_Agreements_Shape.zip?
Size: 5.09 MB
From: oidwb48v.energy.gov.ab.ca
Click open
Open
The file won't be saved automatically.
Save
Save as
Cancel

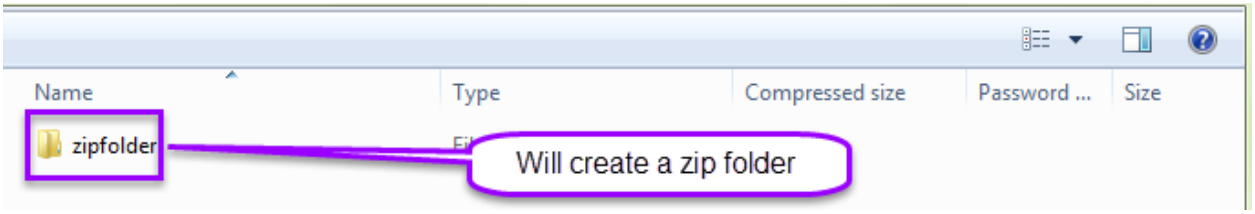

Will create a zip folder
Name
Password ...
Size
zipfolder
File folder

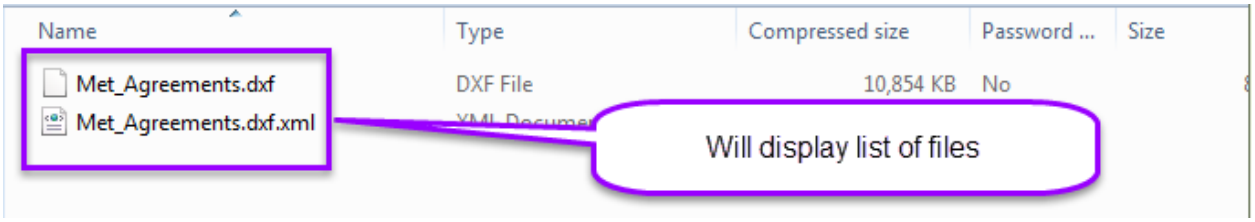

Name
Type
Size
Will display list of files
Met_Agreements.shx
SHX File
11 KB
Met_Agreements.shp.xml
XML Document
12 KB
Met_Agreements.shp
5,126 KB
No
7,517 KB
Met_Agreements.sbx
SBX File
1 KB
No
1 KB
Met_Agreements.sbn
SBN File
8 KB
No
14 KB
Met_Agreements.prj
PRJ File
1 KB
No
1 KB
Met_Agreements.dbf
DBF File
73 KB
No
3,090 KB

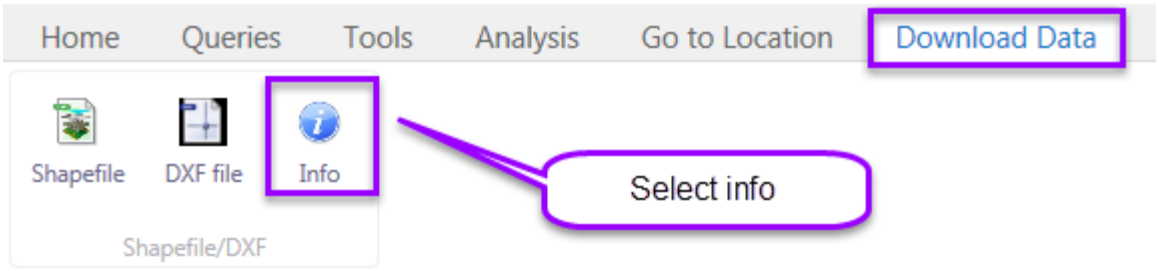
How to download DXF file data





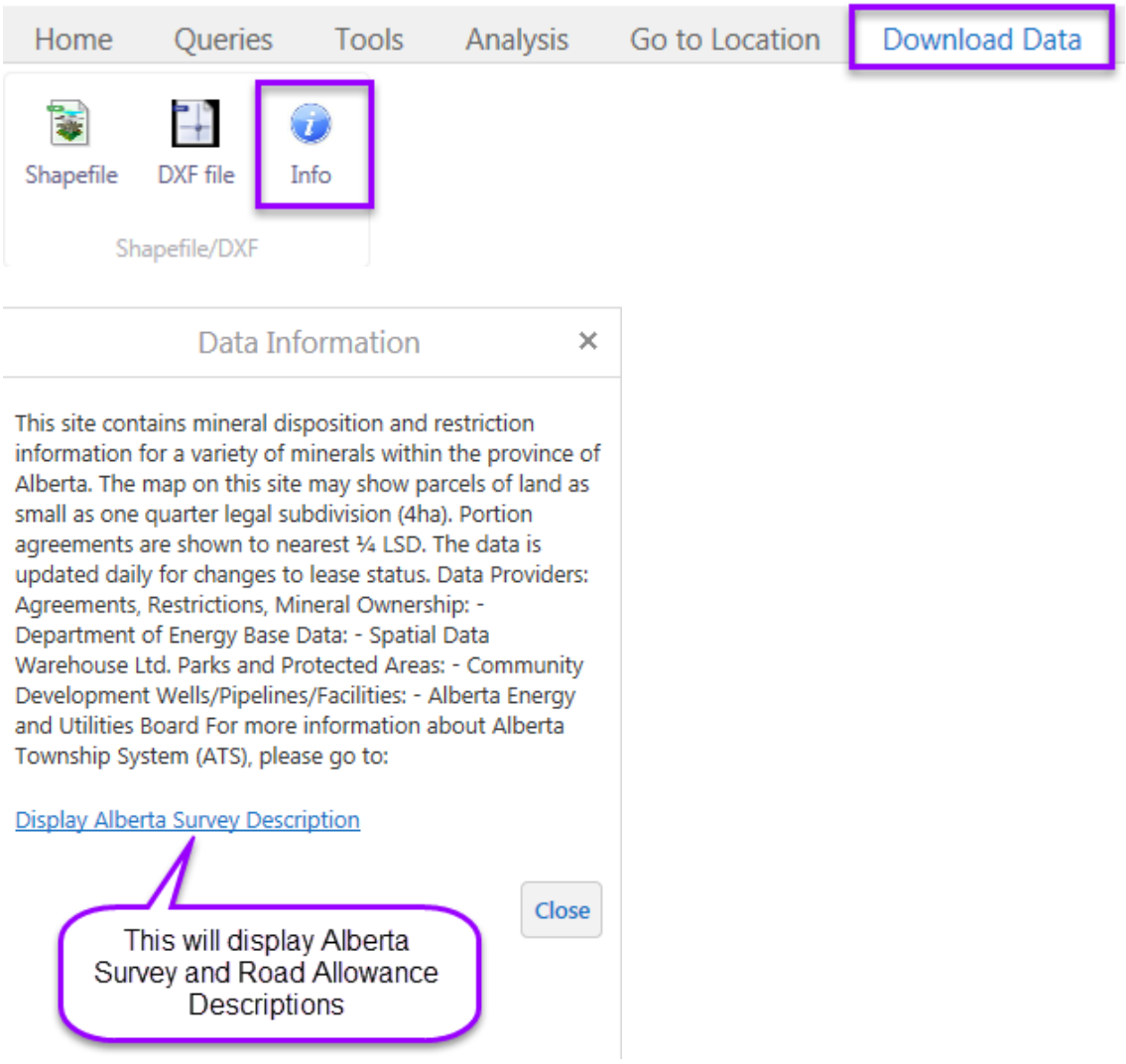




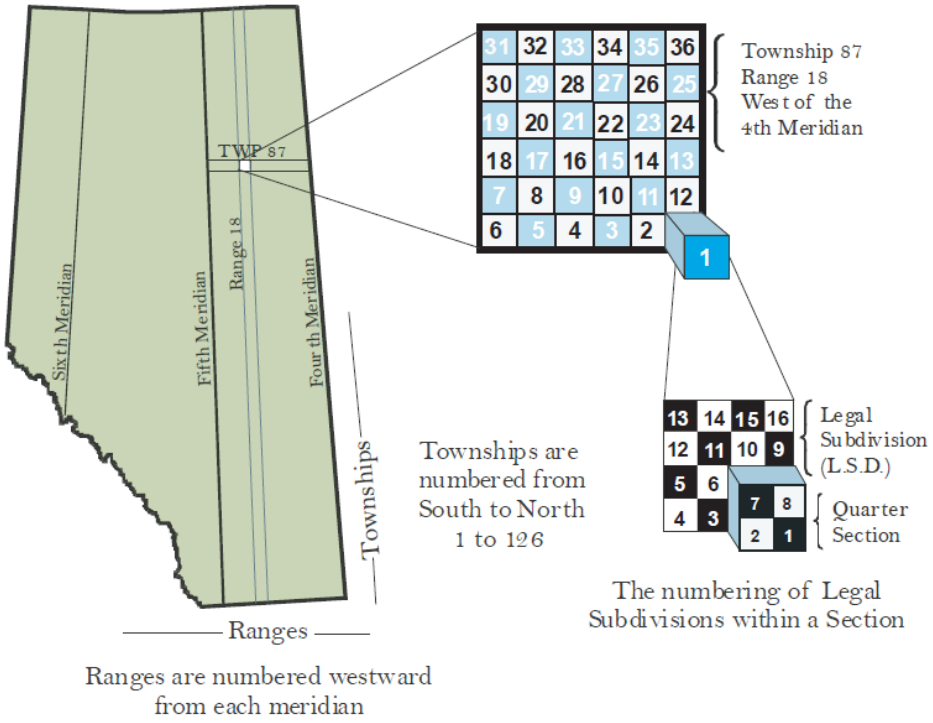


Note: *The dated link is 24 hours behind live data. Upon clicking on the dated link, a zip file is provided to open or save.*

How to use info



Alberta Survey



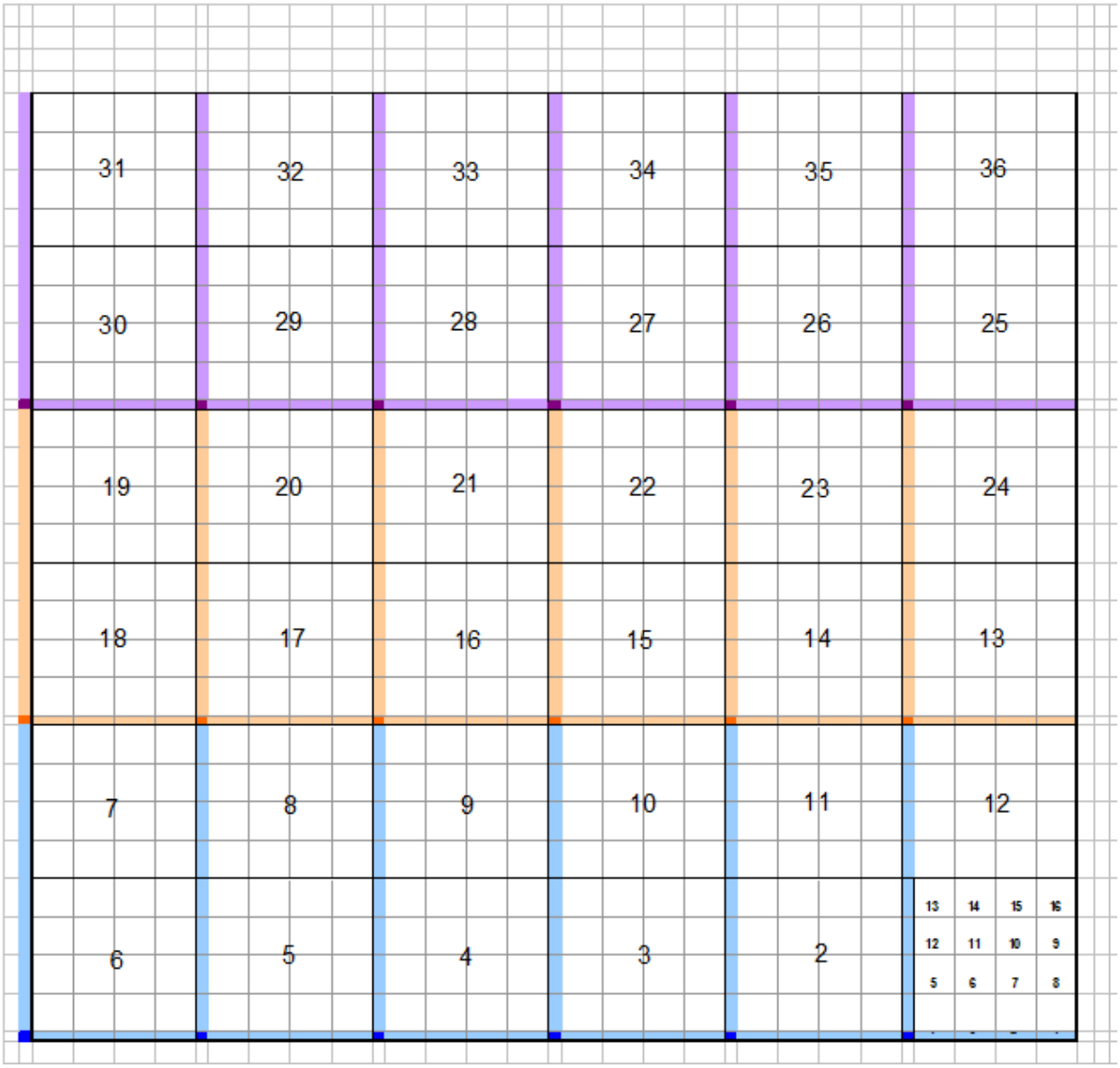
Note: *Road Allowance info sample is missing.*

Road Allowance Land Key Table for Metes and Bounds and Land Description Samples

- **Lands must be <u>only</u> North (2 miles) or South (1 mile) of a section as per valid land descriptions for Road Allowance.**
- **This information describes the related metes and bounds based on the road allowance orientation as shown on the Township overlay.**

Landkey	Road Allowance Orientation	Appendix	Description
4-27-027:11	RS	4-27-027:11RS	Road Allowance lying to the South.
4-27-027:11	RW	4-27-027:11RW	Road Allowance lying to the West.
4-27-027:11	RI	4-27-027:11RI	Road Allowance being the South West intersection.

TOWNSHIP OVERLAY FOR ROAD ALLOWANCE



Congratulations!

You have completed the GeoView System Overview online Training Course.

If you have any comments or questions on this training course, please forward them to the following e-mail address:
GIS SOLUTIONS SUPPORT: ENERGY-MOGISSupport@gov.ab.ca