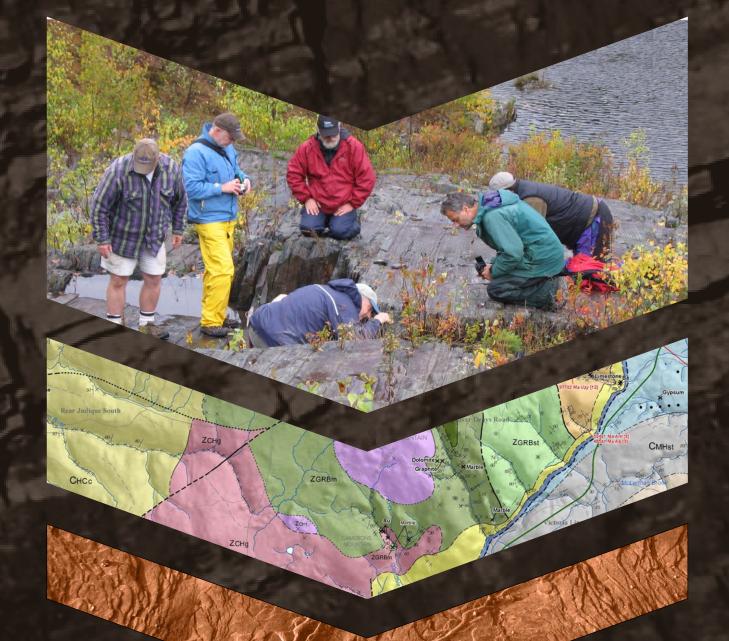
# Natural Resources

Geology Matters 2014

### Experts on the ground



### Opportunities on the ground

### **Geoscience and Mines** Branch



Open File Illustration ME 2014-006



**Text Report For Site AV-469:** 

Aug 25/94: Very large guarry in Goldenville Formation metagreywacke (guartzite); owned by Standard Paving; good stone; large 2-3 metre thick units (beds) of guartzite; some metasiltstone units with foliation; pyrite cubes present but relatively rare; have piles sized all the way up to armour stone; some nice cubic blocks and some flagstone, all produced from jointing patterns (rather than bedding layers); highly fractured from subvertical shears & joints in certain parts of quarry, whereas other areas are quite solid; some hematite staining on joints; probably about 15 metres deep; site currently not being used; road has gate at end; will sample and crush for all tests = AV-469

Aug 28/07: now Lafarge Quarry; metagreywacke/quartzite; minor sulphides; minor quartz stringers and inclusions; some areas with very tightly spaced joint fractures which make good naturally-shaped dimension stone blocks for rock walls, stone fences and landscaping (apparently materials are commonly used by stone masons); seems to be good construction-grade aggregate;

#### **Description:**

This project is intended to compile stone resource data collected by Garth Prime over multiple years into a GIS database that will be released to the public in 2015.

It is a regional study of the stone resource potential in Hants, Kings, Annapolis, Digby and Yarmouth counties. The occurrences, deposits and potential products that are being documented include sand and gravel, bedrock aggregate, dimension stone, rip rap and armour stone, landscape stone, clay and other specialty stone applications. The GIS database being constructed consists of site descriptions, aggregate test results, photos, resource assessment information and comments related to environmental and land-use issues that can affect resource development.

#### **Outputs:**

A GIS database containing all relevant data pertaining to stone resources in Hants, Kings, Annapolis, Digby and Yarmouth counties An on-line interactive map bringing all data together in a user-friendly application including linked site notes, photos and sample analysis

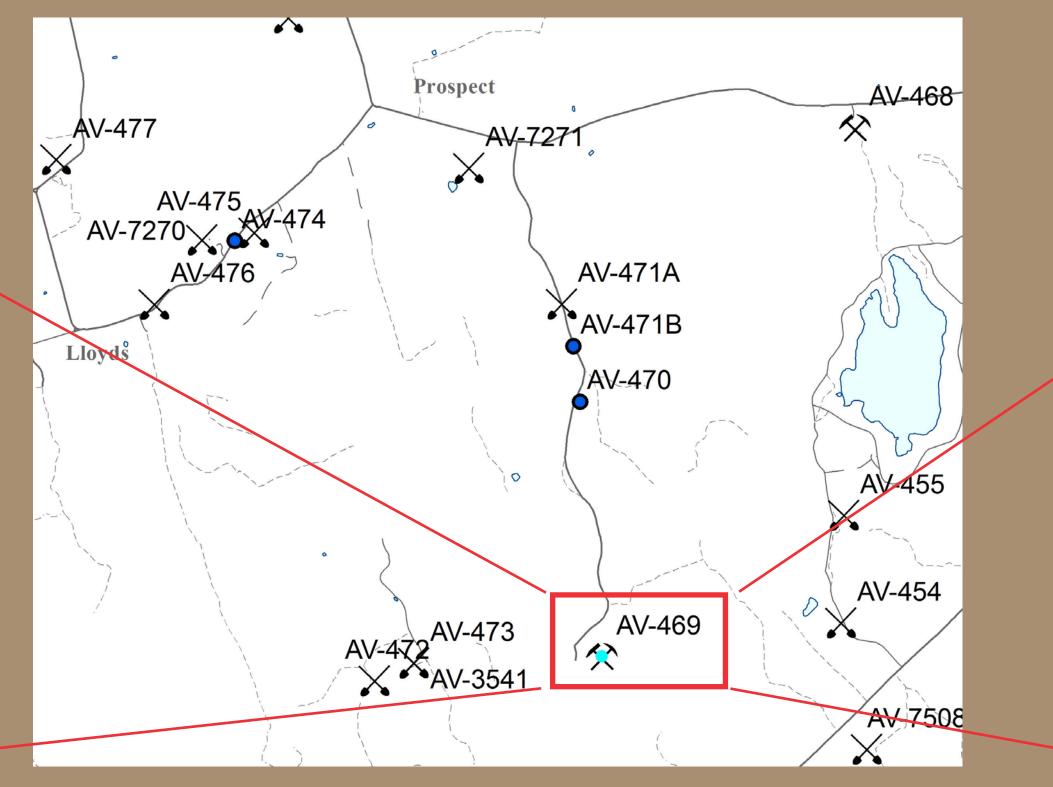
A series of 1:50 000 maps illustrating stone resources in the Annapolis Valley area of Nova Scotia A summary report discussing interpretations and conclusions of the research



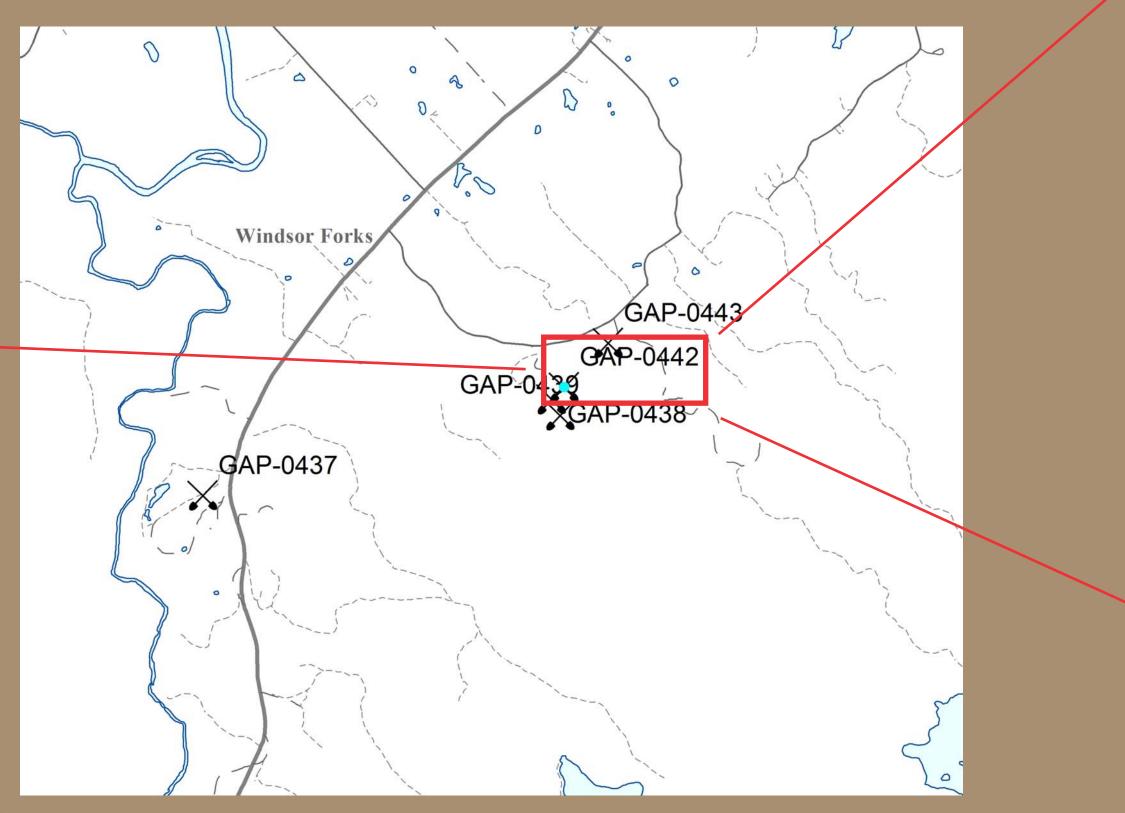
# Information Services

## What's New? Projects we are working on

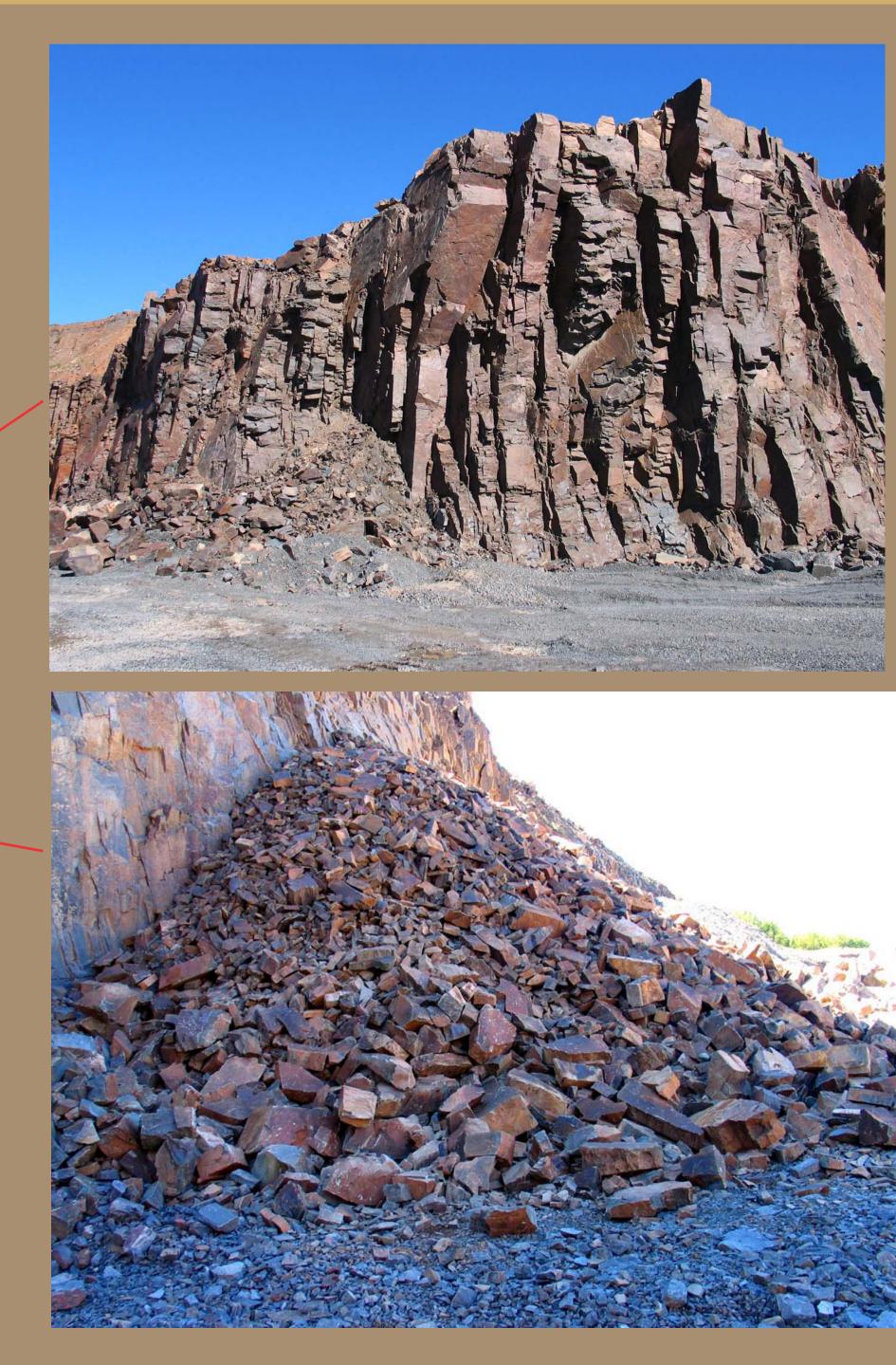
### Valley Stone Resources Database



Site AV-469 - An example of the photographs and reports in the database for this particular site



Site GAP-0442 - An example of the photographs in the database for this particular site



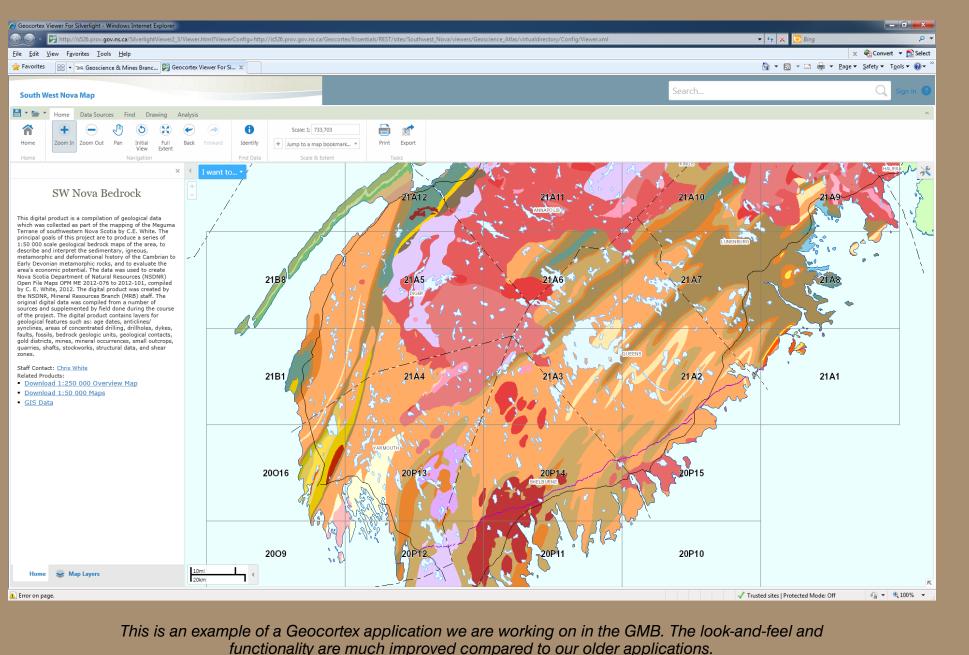


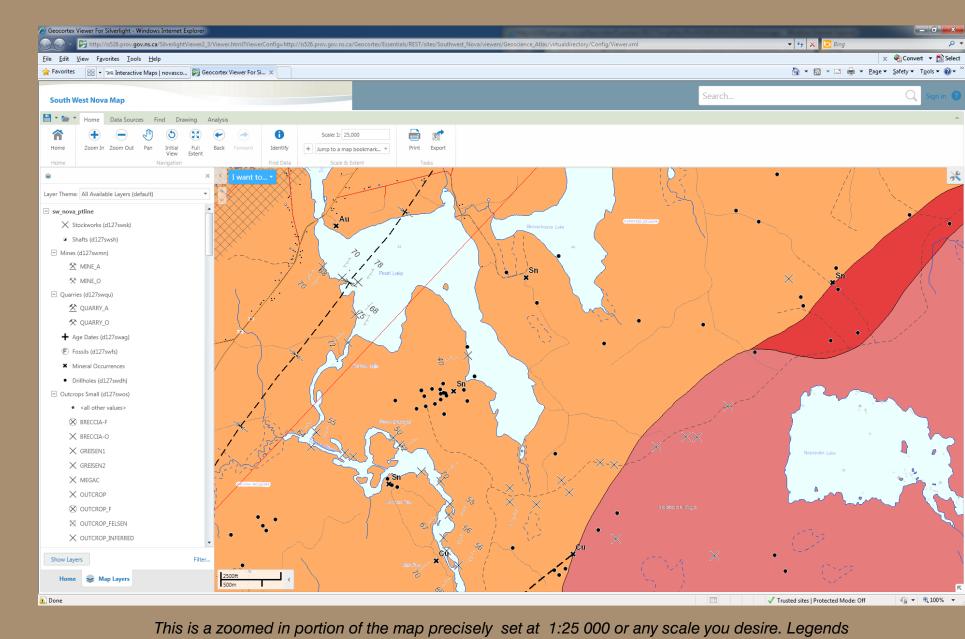


http://novascotia.ca/natr/meb/

### **Geoscience and Mines Branch Internet Map Server Initiatives**

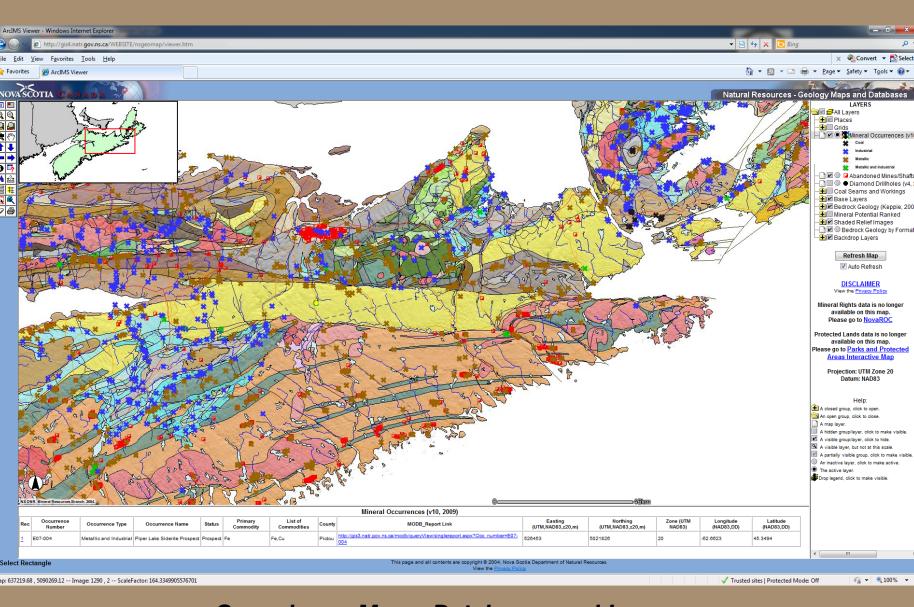
### New Generation of ArcGIS Server and Geocortex Applications





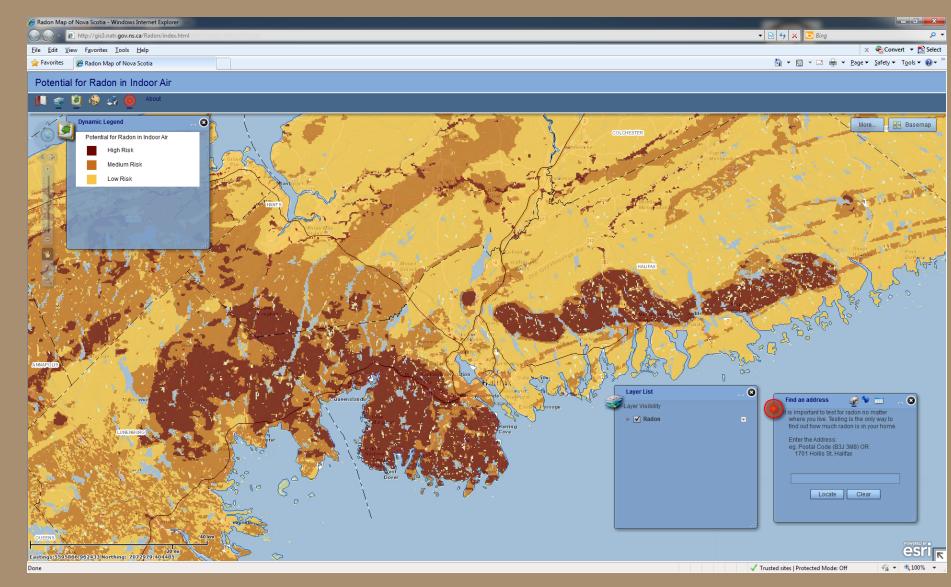
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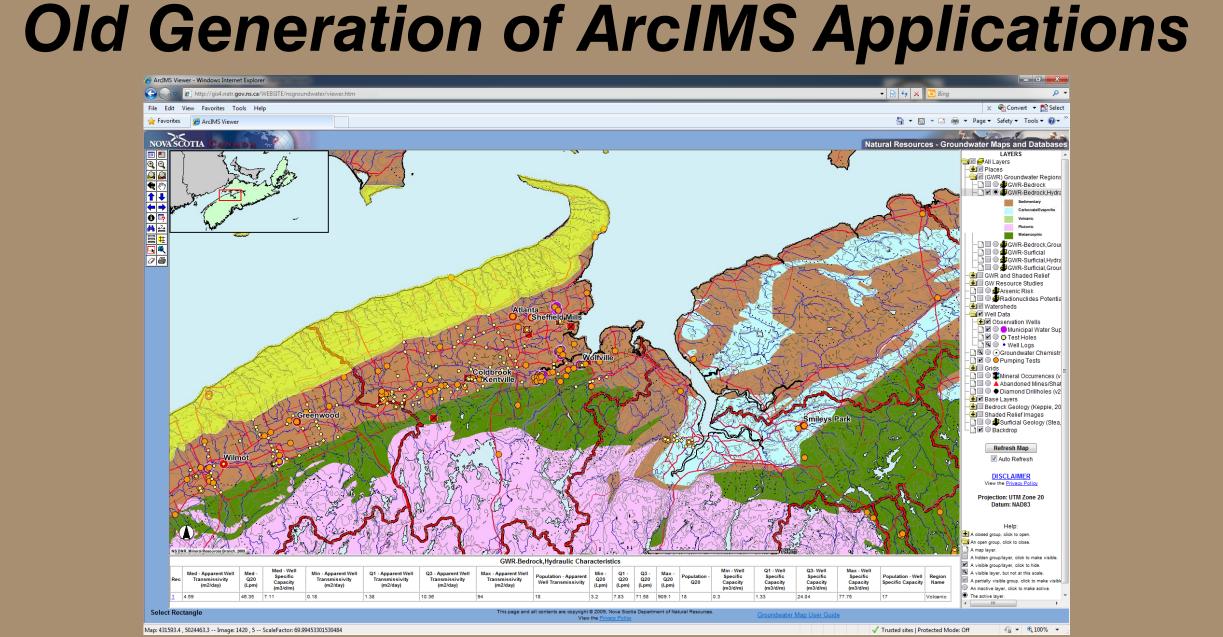
Southwest Nova Bedrock Geology: http://gis3.natr.gov.ns.ca/SWNova/index.htm

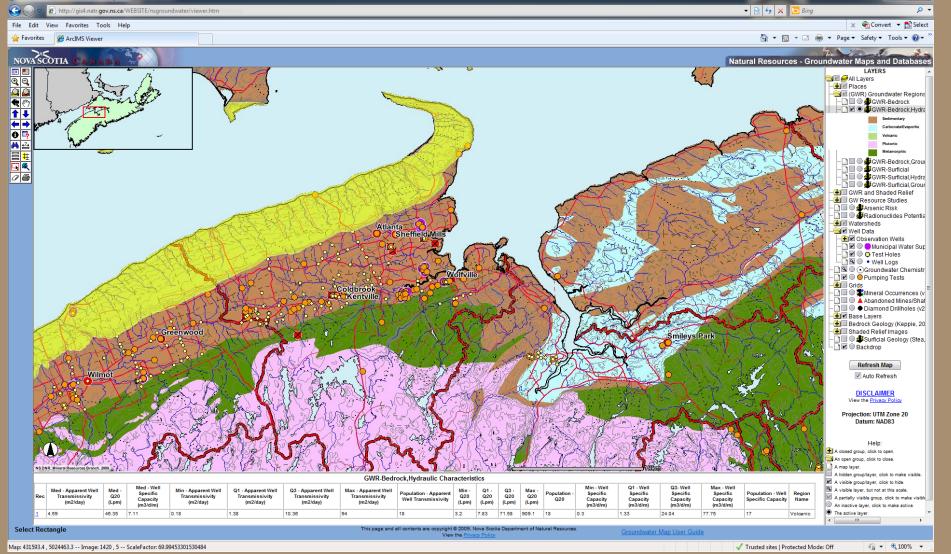


Geoscience Maps, Databases and Images: http://gis4.natr.gov.ns.ca/WEBSITE/nsgeomap

### **Current Generation of ArcGIS Server Applications**



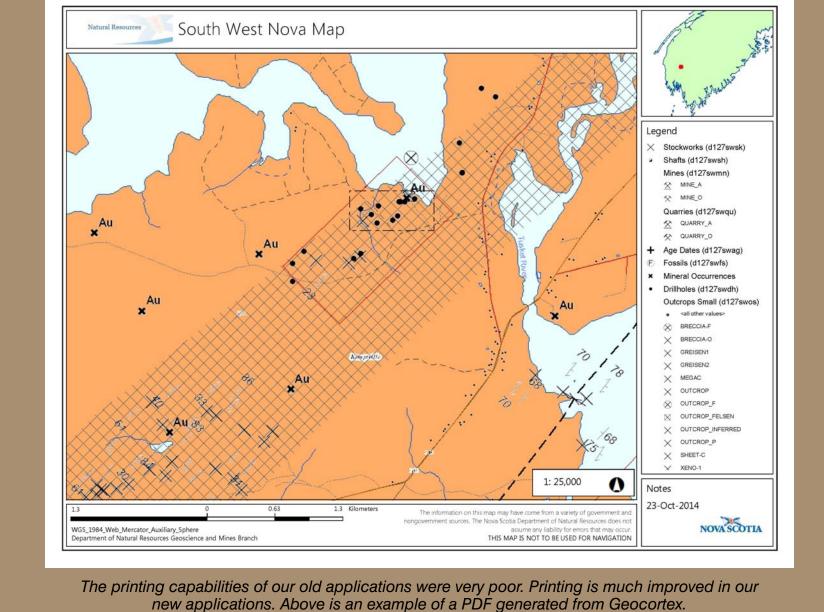




ndwater Maps and Database nttp://gis4.natr.gov.ns.ca/WEBSITE/nsgroundwate

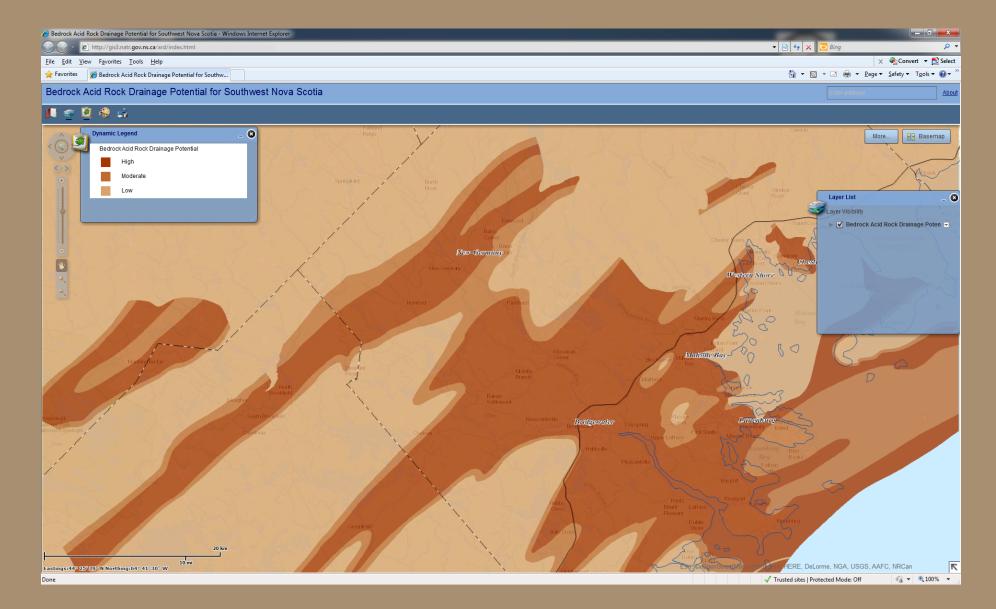
The Geoscience and Mines Branch (GMB) has been providing Internet map services and applications for our clients for more than twelve years. Examples of these applications are presented above. We recognize our current internet map services and applications are out-of-date compared to Google Earth and Bing Map applications available today. Recent GIS infrastructure initiatives in the Nova Scotia government have enabled DNR to upgrade old map services and applications to use the latest generation of GIS server technology.

We will be holding a workshop this year at the conference to showcase the new and improved mapping applications that are currently in development. Have you ever wanted to find coordinates in latitude/longitude and UTM, or have better printing capabilities? Well now you can, along with many other capabilities. Discussion will be wide open and will include everything from the map layers you want to see, to what you want to do with them to answer the questions that are most important to you. We need your input to prioritize our work.

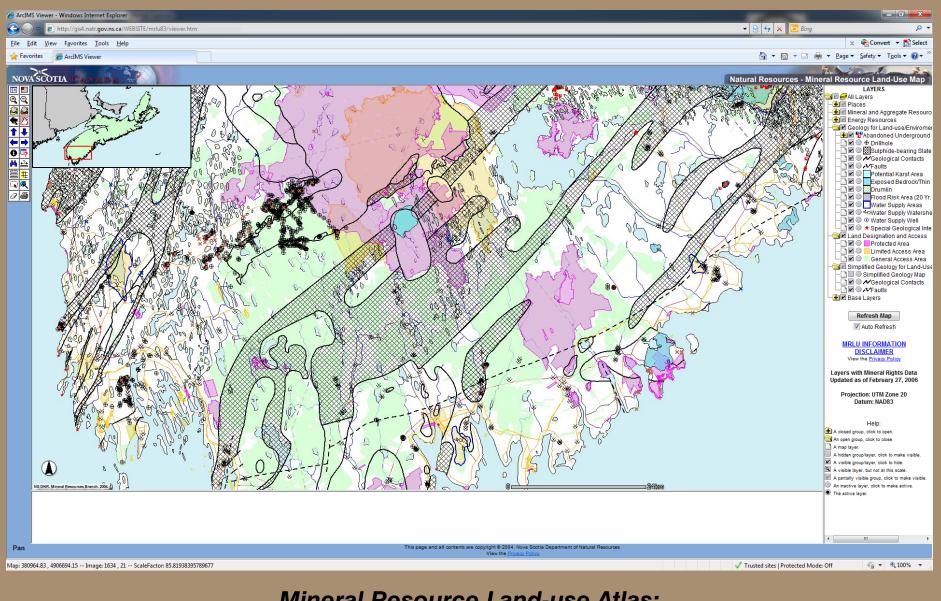


and layer lists can be opened and closed or resized at will.

Potential for Radon in Indoor Air: ttp://gis3.natr.gov.ns.ca/Radon/index.htm



Bedrock Acid Rock Drainage Potential for Southwest Nova Scotia: http://gis3.natr.gov.ns.ca/ard/index.htm



://ɑis4.natr.ɑov.ns.ca/WEBSITE/mrlu8