

AR 2012-146

REPORT OF WORK  
2012

SCOZINC LIMITED  
COLCHESTER COUNTY  
NOVA SCOTIA  
CANADA

EXPLORATION LICENCE  
06303

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SCOZINC LIMITED, 15601 HIGHWAY # 224, COOKS BROOK, NOVA SCOTIA, BON 1Y0

**DUPLICATE AVAILABLE**

REPORT OF WORK  
2012

SCOZINC LIMITED  
COLCHESTER/PICTOU COUNTY  
NOVA SCOTIA  
CANADA

EXPLORATION LICENCE  
06303

*Prepared by: Matthew Jodrey*

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## SUMMARY

Exploration Licence 06303, held by ScoZinc Limited, is located in the community of Gays River, 1.2 kilometers to the west of ScoZinc Ltd. mineral lease 10-1, and in close proximity to both the Gays River Zinc-Lead Deposit and the Getty Zinc-Lead Deposit. The licence consists of 5 claims.

The property is located immediately to the north of the Gays River Zinc/Lead deposit and ScoZinc mine, and to the northeast of the associated Getty Zinc/Lead deposit. The property geology consists of evaporates of the Carroll's Corner Formation overlying the metal-bearing carbonates of the Gays River Formation, which in turn overlie the meta-sedimentary basement rocks of the Meguma Supergroup. The deposits are Mississippi Valley Type in nature, hosted within the paleo-carbonate reef of the Gays River Formation. The units of the property areas are located to the north of the paleo reef front and slope.

The Gays River and Getty Zinc/Lead Deposits were discovered in the early 1970s, and since then the area surrounding the property has been the subject of extensive exploration and mining activities. However, despite the abundance of local activities, the property itself has seen relatively little exploration, particularly in recent years.

Exploration work on this property in 2011-2012 consisted of research and a detailed review of historical reports and data pertaining to geology and mineral exploration on the property. This was followed by the assessment of exploration options, and the planning of an 80-sample, soil sampling program on a portion of the property, building on past work, to be carried out in the future. A review of historical data and assessment of mineral potential on the property suggests that the further work is warranted, and the licence should be maintained in full.

## 1.0 INTRODUCTION

Exploration Licence 06303, held by ScoZinc Limited, is located in the community of Gays River, Colchester County, Nova Scotia (Figure 1 and 2). The licence is positioned immediately to the north of ScoZinc Ltd.'s mineral lease 10-1, which hosts the ScoZinc Zinc-Lead mine at Cooks Brook. The licence contains a total of 5 claims

In June, 2011 ScoZinc was wholly acquired from Acadian Mining Corporation by Selwyn Resources Limited. Work at ScoZinc is now aimed toward the re-opening and subsequent expansion of the ScoZinc Mine, with exploration work focused on the expansion of and further delineation of the known resources and the discovery of new economic deposits.

This report is written by ScoZinc Ltd. to comply with provisions within the Nova Scotia Mineral Resources Act relating to the reporting of work on exploration claims. It covers 12 months of work and expenditures related to exploration of the property. Exploration over the past year has included research and data compilation, an assessment of mineral potential on the property, an evaluation of possible exploration activities, and the planning of a soil geochemistry program to be carried out in the future.

Staff from ScoZinc Ltd. and Selwyn Resource Ltd. supervised all aspects of work described herein. A listing of personnel and contractors associated with the 2011-12 program appears in the appendices along with a statement of author qualifications.





- Legend**
- ★ Licence Location
  - City/Town
  - ✚ ScoZinc Licence
- Boundaries**
- Nova Scotia Province
  - Other Provinces
  - - - County Boundary

**SELWYN**  
RESOURCES LTD.

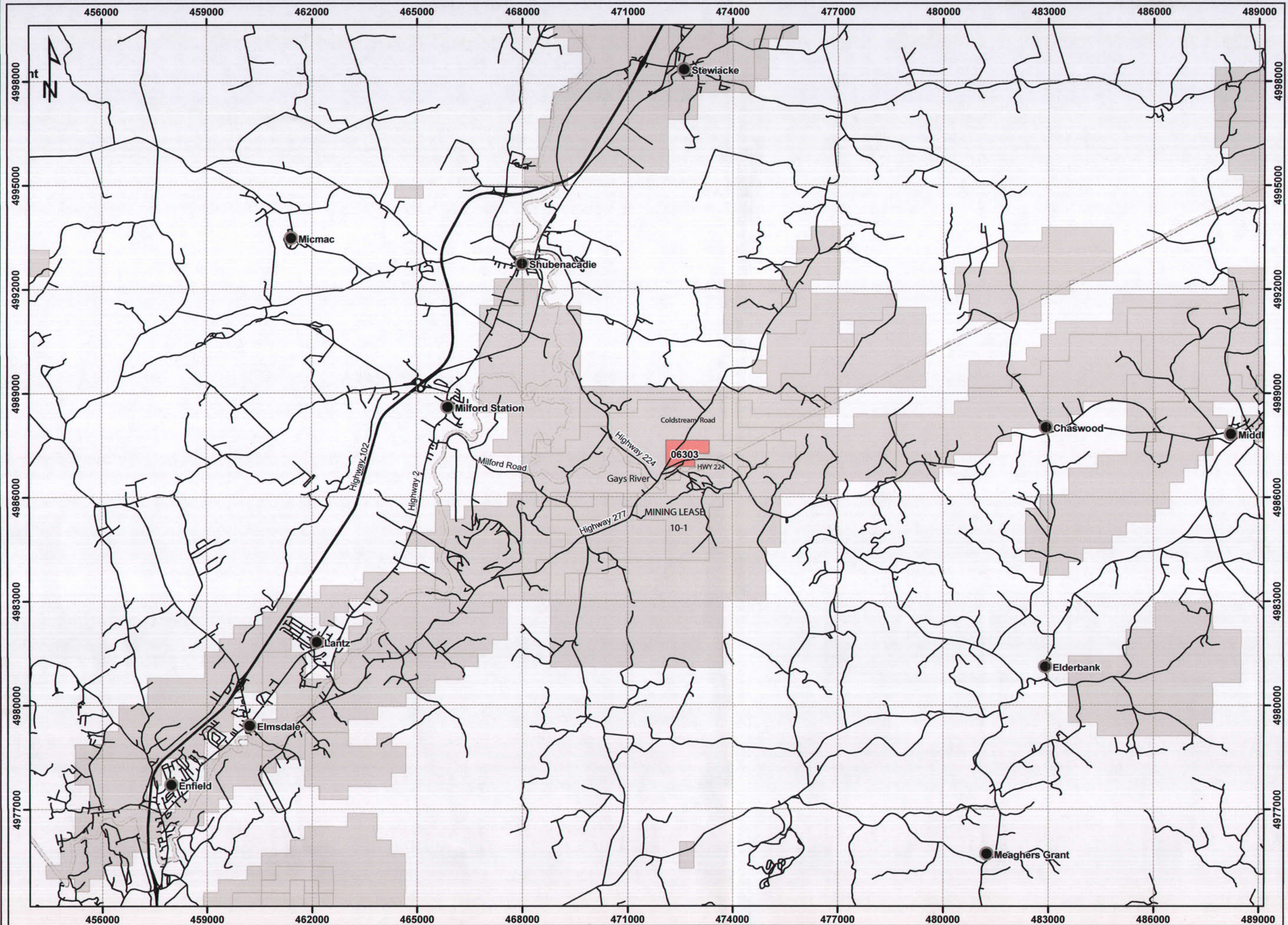
Date:	2012/10/15
Author:	M.Mayer
Office:	Vancouver
Figure:	1
Scale:	1:2,000,000

**Figure 1:  
Regional Location  
Map**

Filename: SL1501\_rept\_20121015\_RegionalAssess\_6303.mxd  
 Project Location: Gays River, Halifax County - NTS 011E  
 Projection: NAD83 - UTM Zone 20

0 20 40 60 80  
Kilometers





**Legend**

- City/Town
- Road
- Licence 06303
- Other Licences
- County Boundary

**SELWYN**  
RESOURCES LTD.

Date:	2012/10/15
Author:	M.Mayer
Office:	Vancouver
Figure:	2
Scale:	1:100,000

**Figure 2:  
Licence 06303  
Location Map**

Filename: SL1501\_rept\_20121015\_LicenceLocAssess\_6303.mxd  
 Project Location: Gays River, Halifax County - NTS 011E  
 Projection: NAD83 - UTM Zone 20



## 2.0 PROPERTY GEOGRAPHY

### 2.1 Accessibility

The property is located at Gays River, Halifax County and overlapping into Colchester County, approximately 45 kilometres northeast of the provincial capital city of Halifax (Figure 1). The property is directly accessible via both paved provincial Highway 224 and Coldstream Road, in Gays River. These roads intersect at Gays River, near the southwest corner of the property (Figure 2). Access to the property is excellent, being provided by the two provincial highways and a number of small private gravel roads associated with land holdings that adjoin Highway 224 and Coldstream Road.

Access to the Trans Canada Highway (Route 102) is possible at various nearby locations including Elmsdale, located approximately 15 kilometres to the southwest. The Robert Stanfield International Airport is located 20 kilometres to the southwest.

### 2.2 Climate

The property area experiences northern temperate zone climatic conditions, moderated by the relative proximity to the Atlantic Ocean. While seasonal variations occur, winter conditions, with freezing conditions and the potential for substantial snowfall typically prevail from late November through late March. Spring and autumn seasons are generally cool, with frequent periods of rain, while summer conditions predominate between late June through to early September. Temperatures typically range between 0° C to -15° C in winter, and between 20° C and 25° C in mid summer, with a mean annual temperature of 6.3°. Mean annual precipitation is 1,452.2 mm. These climate conditions allow for some exploration work, such as drilling and geophysical surveys, to be carried out on a year-round basis. Other exploration activities, such as geological mapping, prospecting, and geochemical surveying, are typically limited by frozen ground and snow cover in the winter (Horne, 2008)

### 2.3 Physiography

The property is characterized by cleared, rolling farmland with small interspersed woodlots and the marshy valley of the Gays River. The river flows west through the southern portion of the property, and other, smaller streams and lesser, ephemeral, drainages are present locally. The area around the river is marshy and wet for most of the year, and rises in elevation toward the north, where topographic relief extends to approximately 62 meters above sea level (ASL).

### 3.0 LICENCE TABULATION

Exploration Licence 06303 consists of five (5) mineral claims that were staked on October 25<sup>th</sup>, 2001 by Alex Thomson, and later transferred to ScoZinc Ltd., which was purchased from Acadian Mining Corporation by Selwyn Resources Ltd. in June, 2011. ScoZinc will retain all three mineral exploration claims that will make up this license. A detailed tabulation is provided below in Table 1.

**Table 1: Licence Tabulation for Licence 06303**

Licence	NTS Map	Tract	Claims
06303	11 E 3B	29	LMNOP
			Total Claims = 5



## 4.0 PREVIOUS WORK

Most or all of the historical exploration on or around the property has been associated with the Gays River and Getty Zinc/Lead deposits, located directly to the south and southwest, respectively. A brief historical account of exploration activities in the property area must include developments related to the discovery and exploration of those two deposits.

### Gays River Deposit (ScoZinc Mine)

The Gays River property (now the ScoZinc Mine site) was optioned by Imperial Oil Ltd. (Esso) and Cuvier Mines Limited (Cuvier) from Millmore-Rogers Syndicate in 1972. Esso initiated exploration activities that resulted in the discovery and definition of the Gays River Zinc-Lead Deposit, and subsequent development of the ScoZinc Mine, which started production in 1978. Over the next three years 554,000 tonnes of zinc/lead ore were mined, at an average grade of 2.12% zinc and 1.36% lead.

Westminer took over control of the mine property in 1988, and ultimately mined a total of 187,000 tonnes of ore over a fifteen month period with average grades of 7.47% zinc and 3.5% lead. However, groundwater inflow problems again became a major problem, and resulted in the suspension of production in 1991.

The mine changed hands numerous times over the next fifteen years, before Acadian Mining Corporation purchased ScoZinc (which had become the company in direct control over the mine) in 2006. Under Acadian, ScoZinc reactivated the mill and began surface mining the deposit.

Selwyn Resources Ltd. purchased ScoZinc Ltd. from Acadian in 2011, and began to work towards re-starting production at the mine. The purchase included a number of nearby mineral exploration licences, including the property that is the subject of the report.

In 2011, 39 exploration surface drill holes were completed, bringing the total number of surface drill holes in the Gays River Deposit to approximately 1366. Additionally, a total of approximately 523 underground drill holes have been completed by prior operators at this time.

In August 2012, an updated mineral resource estimate was published, based on a thorough review of historical drilling records and the 2011 exploration drilling. This resulted in Measured Mineral resources of 2,075,000 tonnes grading 3.14% zinc and 1.68% lead; indicated mineral resources of 5,770,000 tonnes grading 3.3% zinc and 1.69% lead; inferred mineral resources of 3,677,000 tonnes grading 2.35% zinc and 1.51% lead (0.75% zinc equivalent cutoff) (Selwyn News Release, August 24, 2012).

#### Getty Zinc-Lead Deposit

Discovery of the Getty Zinc-Lead Deposit is attributed to drill hole GGR-12. This hole, completed in 1972, intersected 4.63 meters of mineralized dolostone, grading 15.48% combined zinc-lead, beginning at a down-hole depth of 93.11 meters. Getty Mines Ltd. followed up on this discovery with the completion of approximately 180 drill holes in the area. This drilling helped to delineate a nearly continuous mineralized zone, approximately 1300 meters long and 200 meters wide (Comeau, 1973, 1974; Comeau and Everett, 1975).

In 2007-2008 Mercator Geological Services, on behalf of Acadian Mining Corporation, oversaw the completion of 141 drill holes on the Getty Deposit, the majority of which were located on the mineral lease 10-1.

In March, 2011, a 43-101 compliant mineral resource estimate for the Getty deposit was released, showing a measured + indicated resource of 4,360,000 tonnes grading 1.87% zinc and 1.44% lead (2.0 zinc equivalent cutoff value), and a further 960,000 inferred tonnes grading 1.73% zinc and 1.59% lead (1.0% zinc equivalent cutoff value) (Selwyn News Release, March 30, 2011).



The total number of exploration drill holes in the Getty Deposit is approximately 321, as of this report.

#### Exploration License 06303

Exploration on License 06303 has been somewhat limited historically, with most exploration activities having taken place on the adjacent mining lease area and other adjacent properties.

In 1967 Magnet Cove Barium Exploration drilled one hole to a depth of 193.5 meters in the western portion of the property adjacent to Coldstream Road while exploring for barite. In 1974, as part of a larger program of delineating the Gays River deposit, Imperial Oil completed two holes in the eastern portion of the property, intersecting primarily gypsum of the Carroll's Corner Formation.

In 2003 A. Thompson completed a single drill hole on the southern portion of the property, S967. This hole was drilled to a depth of 111 meters, terminating in Carrolls' Corner Formation, and not intersecting Gays River Formation. No zinc or lead mineralization was observed, and the core was only assayed for gypsum and anhydrite purity.

## 5.0 REGIONAL GEOLOGIC SETTING

License 06303 is located near the southern margin of the late Paleozoic Fundy Basin. The basin is bordered by the New Brunswick platform to the northwest and the Meguma platform to the south. During the late Paleozoic, the Fundy Basin was further divided into a series of sub basins, through a series of grabens that are now interpreted as pull-apart basins (Fralic and Schenk, 1981). Block faulting, basement subsidence and fragmentation subsequently resulted in the creation of irregular topography that was infilled during the Carboniferous by clastic sedimentary rocks of the Horton Group, such as conglomerates, sandstone and siltstones, and later by carbonates and evaporates of the Windsor Group. It is these Windsor Group carbonates that have been the host for the carbonate-hosted base metal sulphide and associated sulphate deposits within the region. Tectonic activity and structural patterns in the basin may have remained active post-Carboniferous, and are thought to have had a significant impact on ore formation, as the thick accumulations of terrestrial and shallow marine sediments throughout the basin could provide substantial basinal fluids (Ravenhurst, 1987).



## 6.0 PROPERTY GEOLOGY

The basement rocks on License 06303 are Ordovician-aged, greenschist facies, meta-sedimentary rocks of the Meguma Group. This basement unit forms a northeast-trending paleotopographic high located to the south of the property which separates two sub-basins within the Fundy Basin, the Shubenacadie and Musquodoboit. As the current property lies immediately to the north of this basement high, it is positioned near the southern margin of the Shubenacadie basin.

Unconformably overlying the basement rocks in the property area are clastic sedimentary rocks of the Horton Group, which thickens basinward and pinches out in the property area.

Conformably overlying the Horton Group strata are the basal carbonates of the Windsor Group, the ore-bearing Gays River Formation or its basinward stratigraphic equivalent, the Macumber Formation. The Gays River Formation is a dolomitized carbonate build-up composed of various bank and interbank facies: algal, coral and bryozoan bafflestones, skeletal packstones and wackestones. The carbonate bank, often referred to as a carbonate reef, can be traced basinward into the laterally extensive, thinly laminated, 3 to 18 meter thick argillaceous, bituminous dolostone / limestone of the Macumber Formation. The carbonates underlying the property are likely primarily composed of Macumber Formation lithologies, though this is not confirmed. The property is located north of the local paleotopographic high, and therefore, the Gays River Formation may not be present locally.

Overlying the carbonates are the evaporites of the Carroll's Corner Formation, which include gypsum, halite, and minor potash, all of which may be inter-bedded with minor dolostone and mudstone. In the deposit area, the contact between the Carroll's Corner Formation and the Gays River Formation was deeply incised by a paleochannel during a period of uplift and erosion. This "trench" was partially in-filled by dense, Cretaceous-aged, sedimentary debris, but also retains numerous voids. These voids and open channel-type structures have caused locally high rates of water flow that have caused problems for underground mine developments.

All bedrock in the area are overlain by 20-40 meters of glacial till, which is locally cut by glacial-fluvial, as well as alluvial, sands and gravels.

Mineralization in the Gays River Formation consists of massive and/or disseminated ore. The massive mineralization generally occurs at the stratigraphic top of the unit, in direct contact with the overlying trench or Carroll's Corner Formation, ranging in thickness from 0.1 to 5.0 meters and locally containing up to 78% Pb and 57% Zn. The massive mineralization consists of fine-grained (<10-20 um), Fe-poor, beige-coloured sphalerite and medium to coarse-grained, Ag-poor galena, filling porosity as well as replacing original lithologies (Kontak, 1998)

On the footwall of the massive sulphide there is a zone of disseminated material (<7% Zn equivalent) which, in places is up to 12 meters in thickness and consists of yellow to orange, millimetre-size euhedral sphalerite and millimetre-to-centimetre-size euhedral galena, filling in primary porosity in the dolomitized carbonates and walls of primary cavities. Locally disseminated mineralization (>2% Zn equivalent) extends up to 20 meters into the footwall, and may occur throughout the entire thickness of the Formation. Sphalerite and galena constitute about 99.5% of metallic minerals. Other sulphide minerals are marcasite, pyrite and chalcopyrite, while gangue minerals include calcite, dolomite, fluorite, barite and selenite. (Nesbitt, Thomson Inc., Patterson, 1993)

Mineralization in the Gays River and Getty Deposits are considered to be a Mississippi Valley-type ("MVT") zinc-lead deposit. Sedimentary packages hosting MVT zinc-lead mineralization are typically characterized by shallow-water, shelf-type carbonates with reefs around the peripheries of intracratonic basins, karst structures, limestone-dolomite interfaces and proximity to a major hydrocarbon-bearing basin.



## 7.0 WORK PERFORMED

### *7.1 Research and Data Compilation*

In September of 2012, ScoZinc and Selwyn Resources staff undertook a detailed review of data and historical records pertaining to the present property, assessing the property's potential against current geological interpretations and with respect to historical work carried out in and around the property. Academic and Government literature regarding the property were located and reviewed, and drill logs and geochemistry results from nearby properties were assessed. As a result of this work the ScoZinc exploration team was able to familiarize themselves with the property area and the potential for further mineral exploration there.

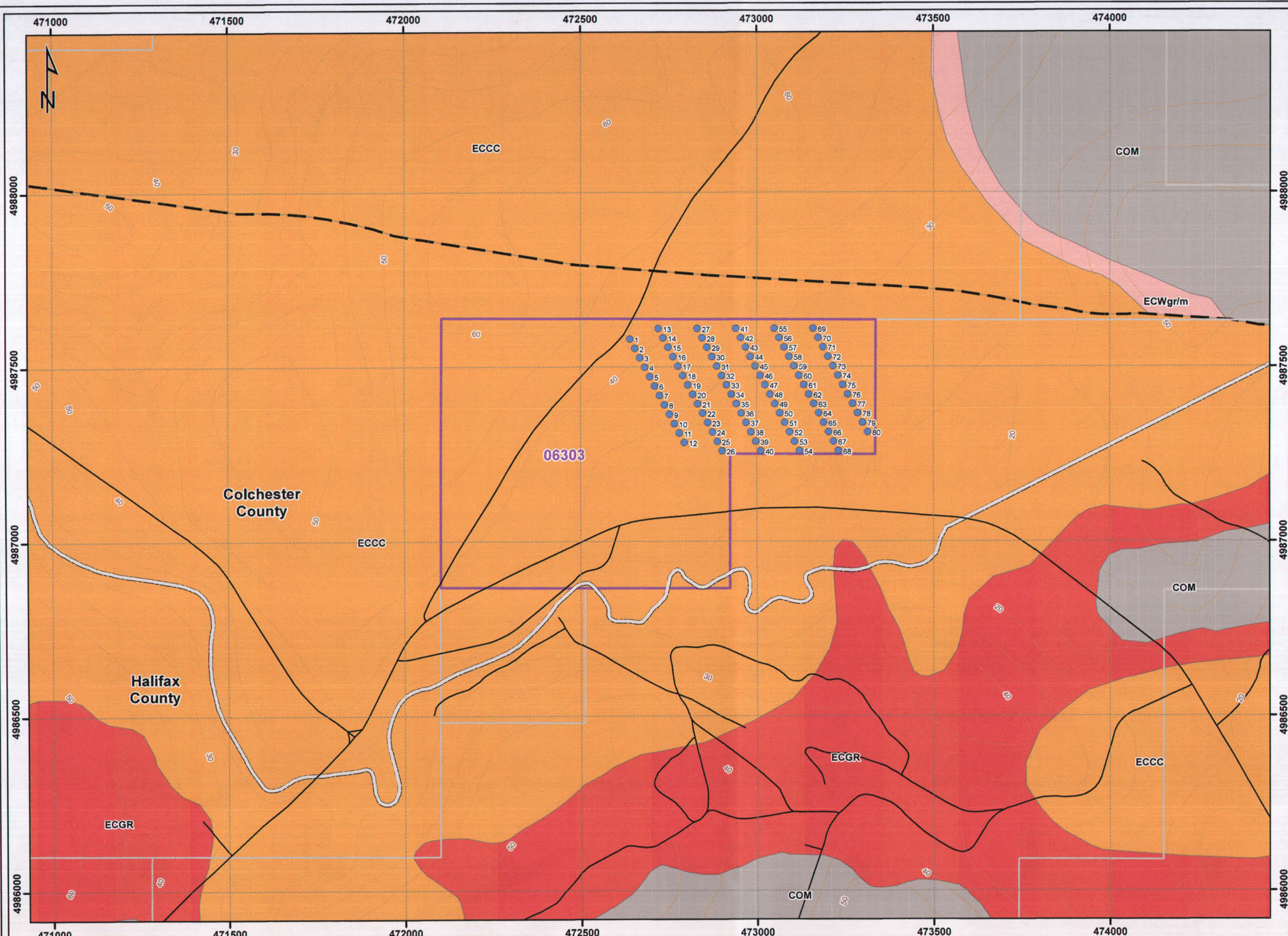
### *7.2 Geological Map Generation*

Geological, topographic, and cultural data was downloaded from the provincial website database, allowing for the creation of a geological map of the area with ArcView software. This map will be important to future exploration work in the area, and was necessary for soil sample planning (Figure 3).

### *7.3 Soil Sample Planning*

After the completion of the data review/compilation and map creation phase, an 80 soil sample program was planned and digitized (Figure 3.). Soil Sampling locations were targeted in and around the eastern portion of the property, due north of the ScoZinc mine, where less-dense land-use and the prominence of forested terrain are likely to make soil sampling more effective. Field work will likely be carried out over a 2-3 day field program window, depending on staffing, to likely be carried out in 2013. Soil samples will likely be sent to ACME Analytical Laboratories in Vancouver for *aqua regia* ICP-MS analysis.





**Legend**

- Planned Sample Locations
- ~ Road
- ▭ Licence 06303
- ▭ Other Licences/Leases
- ▭ County Boundary

**Geology**

- Fault

**Bedrock Geologic Unit**

EK	Early Cretaceous
LCSV	Scotch Village Formation
ECWB	Watering Brook Formation
ECGO	Green Oaks Formation
ECMR	MacDonald Road Formation
ECEB	Elderbank Formation
ECCC	Carrolls Corner Formation
ECMG	Meaghers Grant Formation
ECGR	Gays River Formation
ECM	Macumber Formation
ECCS	Coldstream Formation
ECH	Undivided Horton Bluff & Cheverie Formations
COM	Halifax & Goldenville Formations
ECWgr/m	Undivided Gays River & Macumber formations

**Topography**

- 10m Contour

**SELWYN RESOURCES LTD.**

Date:	2012/10/15
Author:	M.Mayer
Office:	Vancouver
Figure:	3
Scale:	1:10,000

**Figure 3:  
Planned Soil  
Samples  
Licence 06303**

Filename: SL1501\_rept\_20121015\_PropSampleAssess\_6303.mxd  
 Project Location: Gays River, Halifax County - NTS 011E  
 Projection: NAD83 - UTM Zone 20



## 8.0 CONCLUSIONS AND RECOMMENDATIONS

Our review of historical data and records indicates that while this property is in close proximity to the Gays River Mine, it has been somewhat overlooked both in historical and more recent exploration activities. While drilling and geological mapping suggest that the gypsum of the Carroll's Corner Formation overlies the metal-bearing Gays River Formation to a significant depth in the property area, some mineral potential exists here nonetheless. It is possible that an isolated, elevated, section of basement Meguma Supergroup rocks could exist beneath the property area, and this in turn could potentially have resulted in the formation of a carbonate reef structure similar that that in the main deposit to the south, only on a smaller scale. Given the proximity to a developed mine, even modest mineralization at a reasonable depth could prove economical. As such, a concentrated soil sampling program is warranted, and may help to identify anomalous concentrations of zinc and lead that could be reflective of mineralization at depth. All claims within this licence should be retained.



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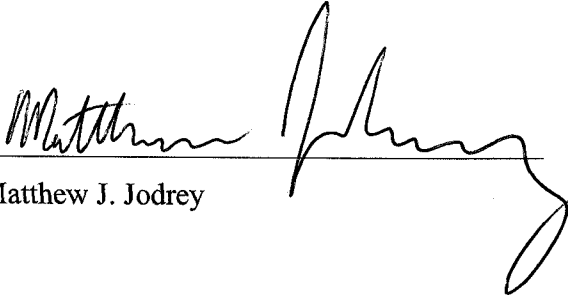
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**APPENDIX I: STATEMENT OF QUALIFICATIONS****MATTHEW J. JODREY**

I am Matthew Jodrey, of Halifax, Nova Scotia, and hereby certify that:

1. I am a graduate of Acadia University, from which I received a Bachelor of Science degree (Hons.) in Geology in 2002.
2. I am the Qualified Person responsible for the preparation of this report.
3. I have actively worked as a geologist since 2007 in the Yukon, British Columbia and Nova Scotia.
4. The accompanying report is based on the independent study of the referenced geological and geochemical reports and maps, for the property and surrounding areas.

Dated this 17<sup>th</sup> day of October, 2012, in Cooks Brook, Nova Scotia, Canada

  
Matthew J. Jodrey

## APPENDIX II: LISTING OF PERSONNEL

Matthew Jodrey – Project Geologist	Halifax, NS
Michael Mayer –Sr. GIS Administrator	Vancouver, BC
Wolfgang Schleiss – Exploration Manager	Vancouver, BC



*Read*

**Form 10 - Statement of Assessment Work Expenditure**  
(pursuant to the *Mineral Resources Act*, S.N.S. 1990, c. 18, s. 43(1))

(Complete as necessary to substantiate the total claimed.)  
Re: Licence No. 06303 Date of issue October 25, 2001

Type of Work		Amount Spent
1.	Prospecting _____ days	
2.	Geological mapping _____ days	
3.	Trenching/stripping/refilling _____ m <sup>2</sup> / _____ m <sup>3</sup>	
4.	Assaying & whole rock analysis _____ #	
5.	Other laboratory _____ #	
6.	Grid: (a) Line cutting (b) Picket setting (c) Flagging _____ km _____ km _____ km	
7.	Geophysical surveys <b>Airborne:</b> (a) EM/VLF (b) Mag or Grad (c) Radiometric (d) Combination (e) Other _____ _____ km _____ km _____ km _____ km	
8.	Geophysical surveys <b>Ground:</b> (a) EM/VLF (b) Seismic soundings (c) Magnetic/telluric (d) IP/resistivity (e) Gravity (f) Other _____ _____ km _____ # _____ km _____ km _____ km	
9.	Geochemical surveys (a) Lake, stream, spring (i) Water (ii) Sediments (b) (i) Rock (ii) Core (iii) Chips (c) (i) Soil (ii) Overburden (d) Gas (e) Biogeochemistry (f) Sample collection (g) Other _____ _____ samples _____ samples _____ samples _____ samples _____ samples _____ samples _____ samples _____ samples _____ days	
10.	Drilling: (a) Diamond (# holes/m) (b) Percussion (# holes/m) (c) Rotary (# holes/m) (d) Auger (# holes/m) (e) Reverse circulation (# holes/m) (f) Logging, supervision, etc. (g) Sealing (# holes) _____ / _____ m _____ / _____ m _____ / _____ m _____ / _____ m _____ / _____ m _____ days _____ #	
11.	Other (describe) Research; Data Review/Compilation; Program Planning	\$530
	<b>Subtotal</b>	\$530
<b>Overhead costs</b>		
12.	Secretarial services	
13.	Drafting services	\$75
14.	Office expenses (rent, heat, light, etc.)	\$50
15.	Field supplies	
16.	Compensation paid to landowners	
17.	Legal fees	
18.	Other (describe)	
	<b>Subtotal</b>	\$125
	<b>Grand total</b>	\$655

DNRMPT OCT19'12 10:32

List the names of the persons who conducted the work reported in the previous table and the dates during which the work was performed.

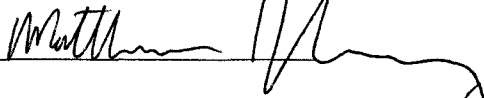
Name	Address	Dates Worked
Matthew Jodrey	Halifax, NS	October 2nd - 5th, 2012
Michael Mayer	North Vancouver, BC	October 12th, 2012
Wolfgang Schleiss	Vancouver, BC	October 5th, 2012

I hereby certify that the information in this form is true and correct, that it has not before been submitted for assessment work credit and that it is the total of all work conducted on the licence during the past licensed year.

As Project Geologist I am duly authorized to make this certification.  
(position in company or licensee)

Dated at Cooks Brook in the Province of Nova Scotia on October 17, 2012

Name and address of licensee: ScoZinc Ltd, 15601 Highway 224, Cooks Brook,  
Nova Scotia, B0N 1Y0

Signature 

For further information, contact the Registrar of Mineral and Petroleum Titles at 1-902-424-4068.