

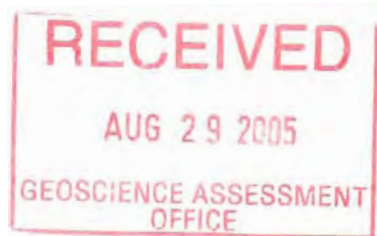
Trench Report of the  
Cook 3001360 Claim

Larder Lake Mining Division  
Cook Township  
Lot 8, all of S1/2 Lot 7, Con5

UTM 0558087E 5363702N  
NTS 42 A 8 E

August 23, 2005  
Matheson, ON

St. Andrew Goldfields Ltd.  
Michael W. Leahey



2.30446

## Table of Contents

|                             |  |           |
|-----------------------------|--|-----------|
| Introduction                |  | p 3       |
| Claim Data                  |  | p 3       |
| Regional Geology            |  | p 3       |
| Trench Geology              |  | p 4       |
| Conclusion                  |  | p 5       |
| References                  |  | p 6       |
| Statement of Qualifications |  | p 7       |
| Appendix 1                  | Swastika Laboratories Results              | p8        |
| Appendix 2                  | Photographs Trenches 1-3                   | p9        |
| List of Figures             |  |           |
| Figure 1                    | L-3001360 & Trench Locations               | after p 3 |
| Figure 2                    | 2003 Geology/Prospecting (1:10,000)        | after p 4 |
| Figure 3                    | Airborne Mag & Trenches (1:10,000)         | after p 6 |
| Figure 4                    | Trench Locations & Claim Lines ( 1:5000)   | after p 6 |
| Figure 5                    | General Trench Geology & Channel Locations | after p 6 |

## Introduction

During a regional prospecting survey of the properties of St Andrew Goldfields, in June 2003, a number of quartz bearing, green carbonate altered rubble boulders with anomalous gold values were discovered by brothers Mick and Steve Stares, of Stares Contracting and geologist Paul Degagne in Cook township. A follow-up trenching program was completed in late August, September 2003 to try and locate a bedrock source of the alteration and gold mineralization. Three areas were excavated using a John Deere 690B backhoe, bedrock in the trenches consisted of pillowed mafic volcanics, mafic flow top breccia and diabase dykes. The green carbonated boulders may have their source to the north along the Destor-Porcupine Deformation Zone (DPFZ) or to the northwest from the Hislop-Ross Mine corridor.

## Claim Data

The trenches are on claim 3001360 owned by Royal Victoria Minerals/St. Andrew Goldfields Ltd. The claim comprises twelve claim units for a total of 192 hectares (480 acres). The claimblock stretches from Cook township in the west to Thackeray township in the east. L-3001360 is 9 kilometers east of Ramore, Ontario in Cook township, Zone 17 UTM 558087E, 5363702N (NAD 27) within the Larder Lake Mining Division. The claim data follows: (Figure 1):

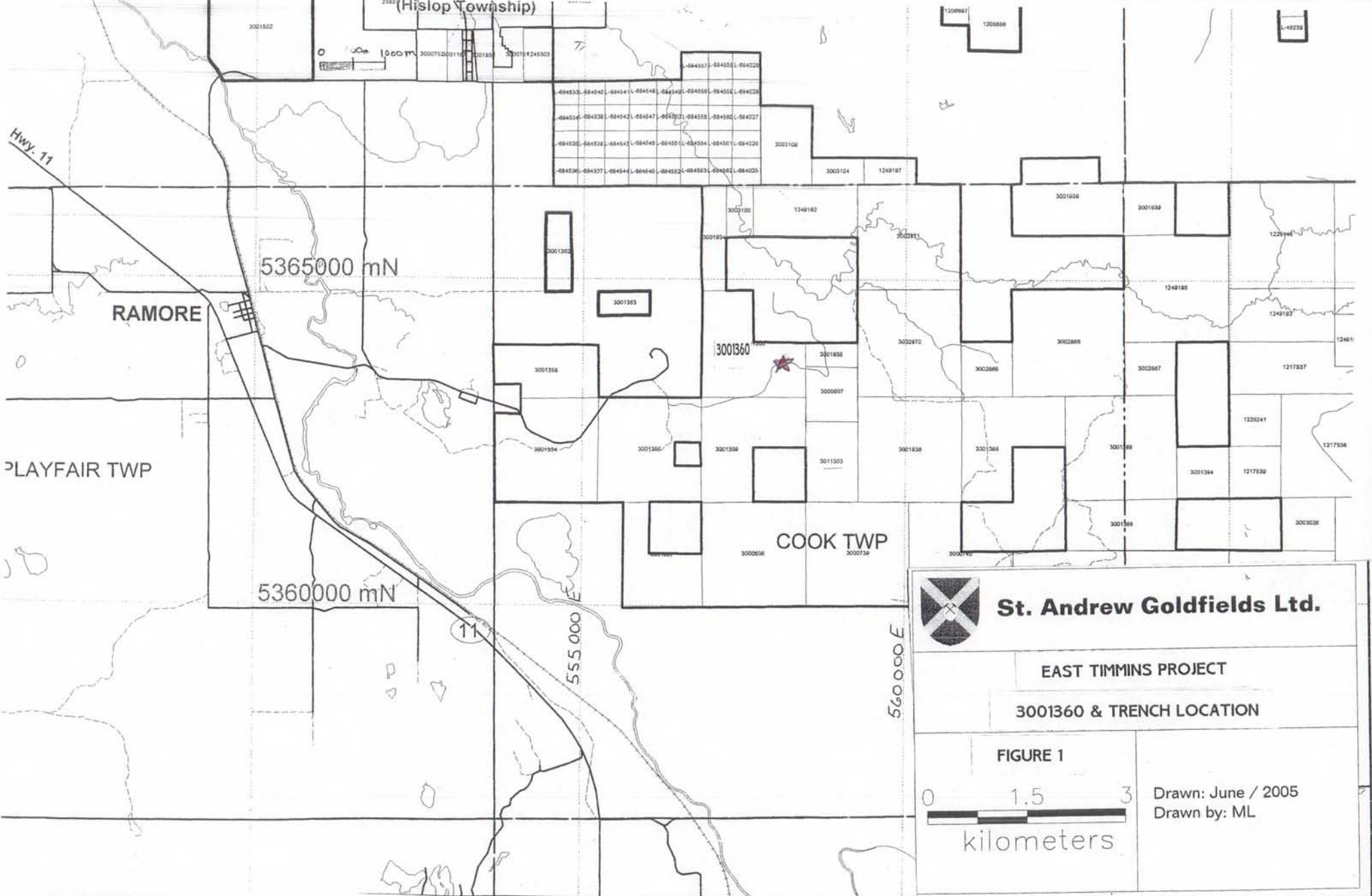
L- 3001360 12 units Anniversary Date July 4, 2006


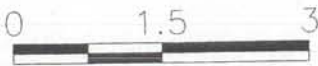
Road access to the trenches is from highway 11 at Ramore, south of the town follow the paved road to the former DND Pine Tree Radar base a distance of 6.5 kilometers, turn south near the gate on Lavaflow Mountain onto old logging roads, proceed east on the former logging trails (by quad or on foot) a further 2.5 kilometers to the trenches on the south side of the road

The claim is at 300 meter elevation, there are a number of outcrop hills and outcrop areas separated by small swamps and wetlands. The area was logged 15-20 years ago and the current vegetation consists of stands of spruce with some pine trees on outcrop ridges.

## Regional Geology

The property is in the Timmins-Kirkland Lake portion of the Southwestern Abitibi Greenstone Belt, the Archean rocks form a thick succession of predominately mafic volcanics with lesser sedimentary and felsic volcanic units scattered throughout. The succession forms a broad, easterly plunging synclinorium stretching from the Timmins area eastward to the Noranda area of Quebec.



|   |                                   |                                    |
|---|-----------------------------------|------------------------------------|
|    | <b>St. Andrew Goldfields Ltd.</b> |                                    |
|   | EAST TIMMINS PROJECT              |                                    |
| <b>3001360 &amp; TRENCH LOCATION</b>  |                                   |                                    |
| <b>FIGURE 1</b>   |                                   |                                    |
|  |                                   |                                    |
| kilometers  |                                   | Drawn: June / 2005<br>Drawn by: ML |

A number of major brittle to ductile deformation zones transgress these supracrustal rocks with the Porcupine-Destor Fault Zone (PDFZ) or "Break" being the most significant. Gold deposits are commonly localized within and close to the PDFZ along its 125 mile length from Timmins eastward beyond the Destor area of Quebec. The PDFZ is 5 kilometers to the north of claim L-36001360. Parallel to the PDFZ and also north of the claim are the east- west trending McKenna and Ghostmount Faults. In addition northwest trending faults the Hislop and Cook faults cross the property and continue to the former Ross Mine and Hislop shaft/pits 8-10 kilometers to the northwest.

Figure 2 is a compilation of the regional geology, 2003 prospecting samples and major structures, which cross the claim. Figure 3 is a compilation of the airborne magnetics and the trench locations relative to the claim boundaries. The trenching was initiated as a result of the prospecting program.

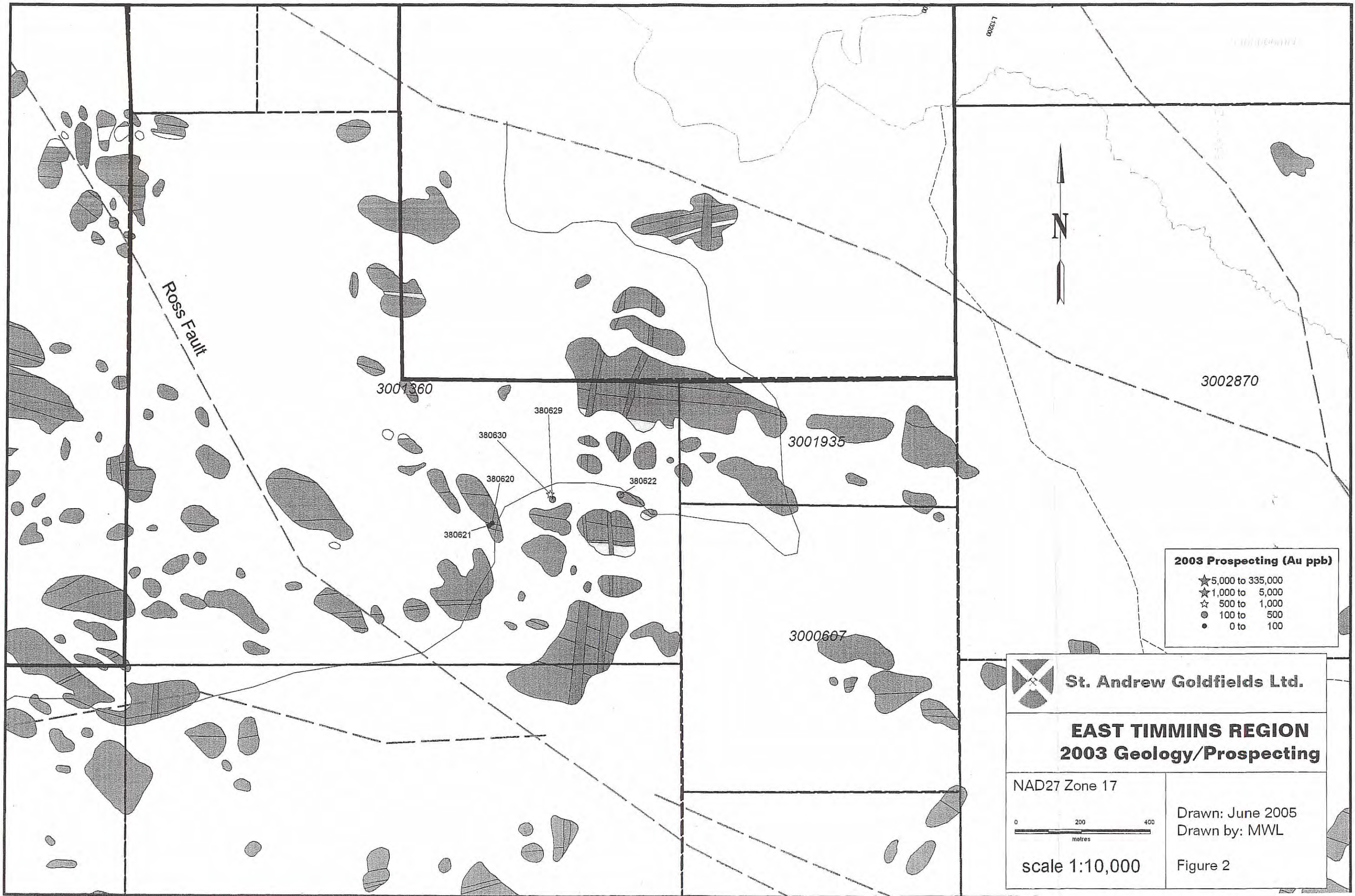
### General Trench Geology

Three trenches were dug by an operator from the Stock mine site utilizing a John Deere 690B backhoe. The job was started in late August 2003, stripping, washing and channel sampling were completed by the end of September 2003 (Figures 4-5). Since a bedrock source of the boulders was not located channels samples were not assayed to early 2004 and some additional channels cut, but not collected were assayed in 2005. Trench 1 was the largest trench, rectangular shaped 40 x 50 meters, started on a central bedrock high and was dug of 2.5 meters in overburden. Trench 2 was approximately 100 meter long and averaged 2.5 meters wide, this north south trench starting on bedrock north of an old trail, limited exposure south of road. Trench 3 was also 100 meters long averages 1-2.5 meters and exposed bedrock throughout its total length.

Trench 1; was the area of the discovery green carbonate, anomalous gold boulders. The trench bedrock is underlain by large pillowed mafic volcanics and local mafic volcanic flow top breccia on its northern edges. A northwest trending steep fault zone marks the western side of the trench. There are some narrow quartz veins within this fault but no alteration or mineralization was found. On the southwest side of fault there is a small exposure of gabbro. A small square pit was blasted into the fault zone, and a shallow blast pit occurs on the trench surface, work undertaken by previous operators. On the south face of the trench a shallow dipping epidote flooded fault surface with a parallel 6 cm thick quartz vein is exposed. Channel samples from this area were very low (nil to 24 ppb Au). The bedrock is drumlined shaped north south and it appears the boulder were glacially transported and dropped over the crest of the outcrop.


Trench 2: straddles and parallels a north south trending diabase. North of the road pillowed mafic volcanics are exposed in outcrop and in the trench. Locally some northwest shearing and shallow dipping features were found. The west contact with the diabase was sharp, within the dyke the epidote fault surface is also exposed. The east contact of the diabase is exposed south of the road. Along this contact vuggy narrow quartz carbonates veins are exposed, again no alteration or mineralization. At the north end of eastern contact approximately 1 meter of flow type breccia and interflow sediments are exposed, the remaining supracrustals rocks exposed are mafic volcanic.

Trench 3: was the farthest east trench and for the most part contained pillowed mafic volcanics, the pillow variable shaped and the pillow selvages often had 1-2cm Fe-carbonate altered rims. Within this area there were some thin flat to moderately dipping vuggy quartz veins. Near the south end of the trench there is a section 7-8 meters of mafic volcanic flow top breccia, the bottom 1-2 meters of this unit is sheared and has strong Fe-carbonate, brown alteration flooding the breccia matrix.



**2003 Prospecting (Au ppb)**

- ★ 5,000 to 335,000
- ★ 1,000 to 5,000
- ☆ 500 to 1,000
- 100 to 500
- 0 to 100

 **St. Andrew Goldfields Ltd.**

**EAST TIMMINS REGION  
2003 Geology/Prospecting**

NAD27 Zone 17

0 200 400  
metres

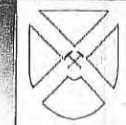
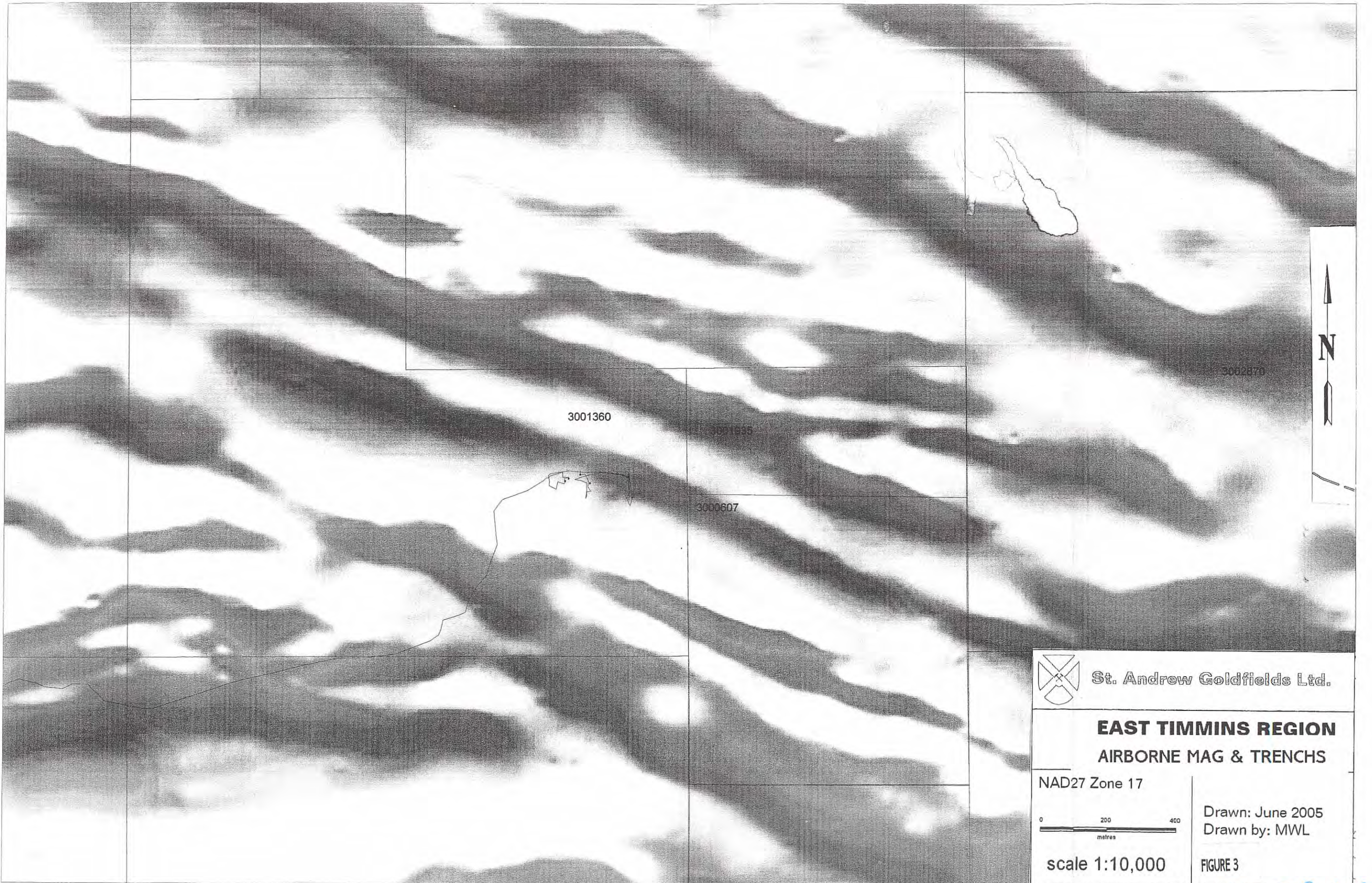
scale 1:10,000

Drawn: June 2005  
Drawn by: MWL

Figure 2

## Conclusion

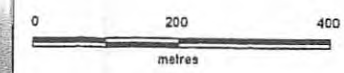
A bedrock source for the green carbonate, anomalous gold boulders was not located. Channel sample results were all low, 0-24 ppb Au. The potential bedrock source area could be the DPFZ or the Hislop –Ross mine corridor. Additional prospecting and sampling are planned for the property to the north and northwest to follow the boulder train back to a bedrock exposure. Work will also include sampling of the altered mafic volcanic breccia.



St. Andrew Goldfields Ltd.

**EAST TIMMINS REGION  
AIRBORNE MAG & TRENCHS**

NAD27 Zone 17



scale 1:10,000

Drawn: June 2005  
Drawn by: MWL

FIGURE 3

2.30446



## References

Ayer, J. A., Berger B. R. and Trowell N. F. 1999 Geological compilation of the Lake Abitibi greenstone belt; Ontario Geological Survey, Map P3398, Scale 1:100,000.

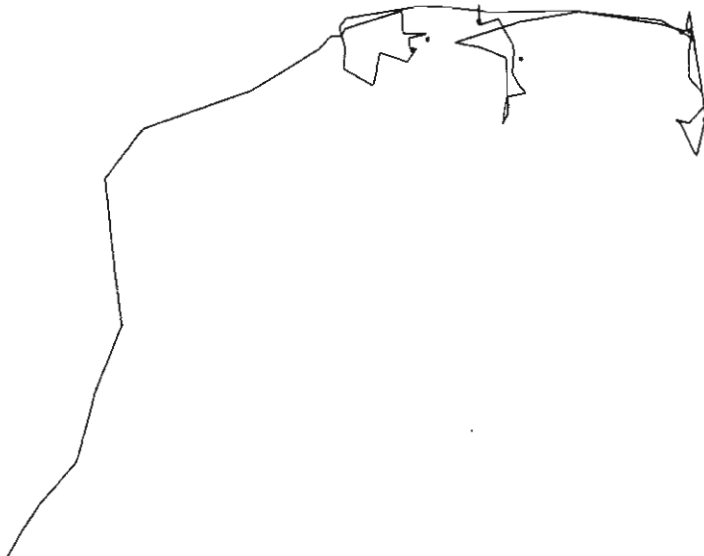
Roscoe, W.E and MacCormack L. 1999, Report on the Stock Mine, Taylor Mine, Hislop Mine, Fenn-Gib Project and other properties in the Timmins area, Northeastern, Ontario, Prepared for St. Andrew Goldfields Ltd. Roscoe Postle Associates Inc., p1-107.

Various Marshall Mineral Assessment Reports, Kirkland lake mining Divison



3001360

3001935

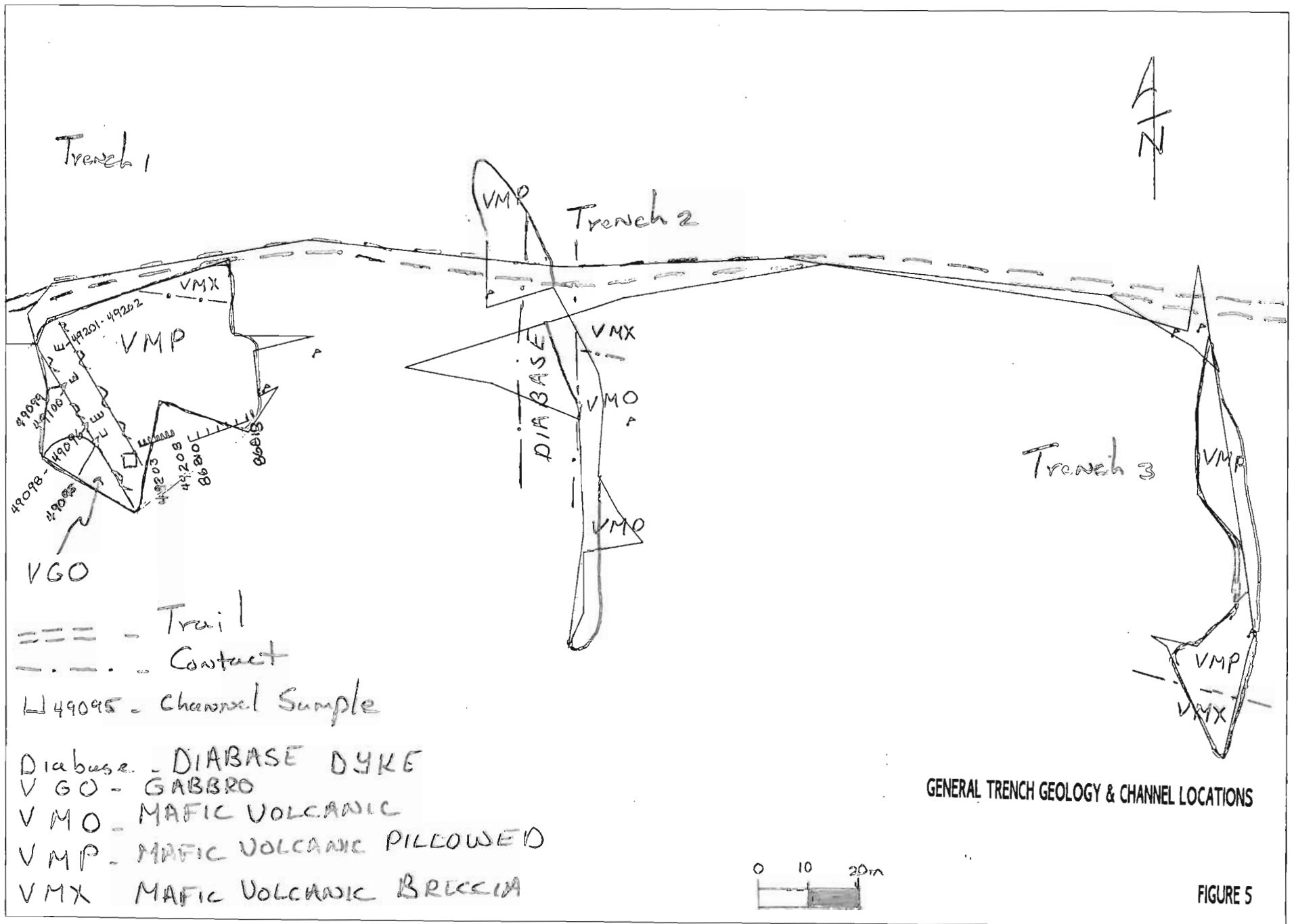


3000607

TRENCH LOCATION & CLAIMS

FIGURE 4





Trench 1

Trench 2

Trench 3



VGO

==== - Trail  
 - . - . - Contact

W49095 - Channel Sample

- Diabase - DIABASE DYKE
- VGO - GABBRO
- VMO - MAFIC VOLCANIC
- VMP - MAFIC VOLCANIC PILLOWED
- VMX - MAFIC VOLCANIC BRECCIA

GENERAL TRENCH GEOLOGY & CHANNEL LOCATIONS



FIGURE 5

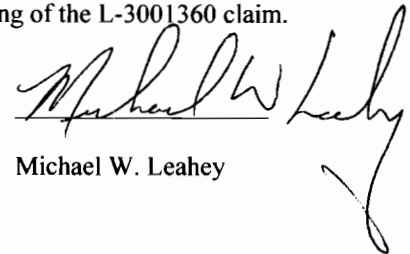
Statement of Qualifications

I, Michael W. Leahey of 13 Ash Drive, Charlottetown, PE hereby state the following:

- graduated in 1973 from St. Francis Xavier University, Antigonish , N.S., with a BSc Major in Geology
- have been employed in the exploration industry as a geologist since graduation by senior and junior mining companies throughout Canada and abroad
- have worked in the Timmins area since 1996.
- have no direct or indirect interest in the securities of St. Andrew Goldfields Ltd.
- am a Fellow of the Geological Association of Canada
- am a member of the Association of Professional Geologists of Ontario
- This report is based on my general knowledge of the Timmins/ Matheson area, my experience in the other gold camps of Ontario and supervision, direct trench mapping and sampling of the L-3001360 claim.

August 21, 2005

Matheson, ON

  
Michael W. Leahey

Appendix 1

SWASTIKA LABORATORIES RESULTS



Established 1928

# Swastika Laboratories Ltd

Assaying - Consulting - Representation

Mike

## Geochemical Analysis Certificate

4W-0257-RG1

Company: **ST. ANDREW GOLDFIELDS**  
 Project: Cook Twp  
 Attn: P. Degagne

Date: FEB-17-04

We hereby certify the following Geochemical Analysis of 14 Channel samples submitted FEB-16-04 by .

| Sample Number | Au PPB | Au Check PPB |
|---------------|--------|--------------|
| 49095         | 2      | -            |
| 49096         | 3      | -            |
| 49097         | 2      | -            |
| 49098         | 3      | -            |
| 49099         | 5      | 14           |
| 49100         | 3      | -            |
| 49201         | 5      | -            |
| 49202         | 2      | -            |
| 49203         | Nil    | -            |
| 49204         | Nil    | -            |
| 49205         | 14     | 5            |
| 49206         | 2      | -            |
| 49207         | 2      | -            |
| 49208         | Nil    | -            |

Certified by



Established 1928

# Swastika Laboratories Ltd

Assaying - Consulting - Representation

## Geochemical Analysis Certificate

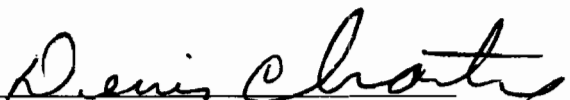
5W-1667-RG1

Company: **ST. ANDREW GOLDFIELDS**  
Project: Cook Trench Cook Twp.  
Attn:

Date: JUL-13-05

We hereby certify the following Geochemical Analysis of 8 Core samples submitted JUL-11-05 by .

| Sample Number | Au PPB | Au Check PPB |
|---------------|--------|--------------|
| 86810         | Nil    | Nil          |
| 86811         | Nil    | -            |
| 86812         | 2      | -            |
| 86813         | 24     | -            |
| 86814         | Nil    | -            |
| 86815         | 7      | -            |
| 86816         | Nil    | -            |
| 86817         | Nil    | -            |
| Blank         | Nil    | -            |
| STD OxK18     | 3518   |              |

Certified by 

Appendix 2  
PHOTOGRAPHS TRENCHES 1-3



Trench 1 - trench high point, qtz carb bd, old blast pit



Trench 1 - closeup of blast pit, northwest shearing

Trench 1 - qtz green carb rubble



Trench 1, qtz green carb rubble, boulders on mafic volcanics

Trench 1 - mafic volcanic, mafic volcanic breccia  
contact



Trench 1, stringy qtz veiw, second blast pit

Trench 1 - Epidote quartz shallow dipping surface



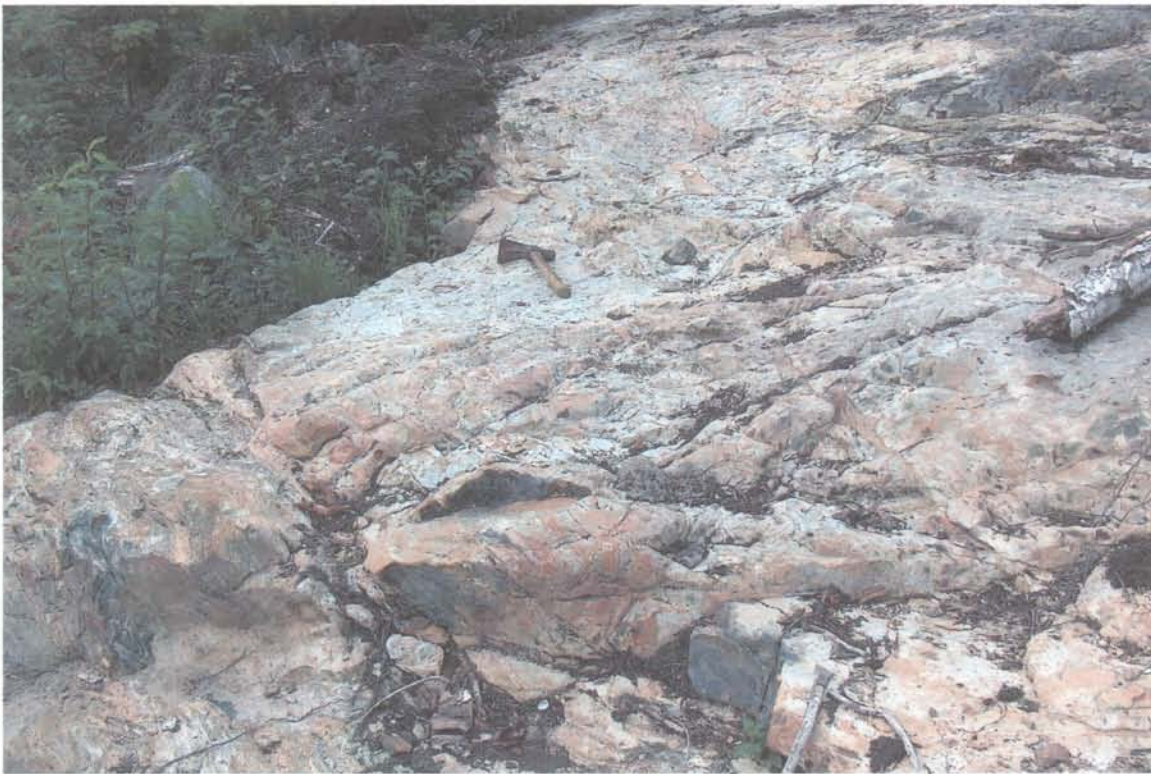
Trench 1 - Looking west, epidote and polished fault surface

Trench 1 - northwest fault zone



Trench 1 - Large pillow matic volcanics

Trench 2 - north of road - Diabase - mafic volcanic contact



Trench 2 - north of road - local strong shear in pillowed mafic volcanic

Trench 2 - Epidote on fault Diabase



Trench 2 - north of road -



Trench 2 - north of road - more intense staining



Trench 2 - south of road - Diabase in foreground



Trench 2 - south of road - Diabase in foreground - contact with Mafic breccia on outcrop face

Trench 2 - vuggy quartz over on contact



Trench 2 - interflow sand in mafic flow top breccia

Trench 3. Large pillow matic volcano



Trench 3 - Looking south

Trench 3 - narrow qtz vein



Trench 3 - Pillow Mafic Volcanic

Trench 3 - Mafic Volcanic Breccia



Trench 3 - irregular qtz veins, mafic volcanic pillow

Trench 3 - mafic volcanic bx, variable alteration



Trench 3 - Iron Carbonate Altered Mafic  
Volcanic Bx