

**ARGOSY MINERALS INC**

**LAC PANACHE PROJECT**

**Results from the 2005 Exploration Program  
Dieppe, Truman and Foster Townships  
Sudbury Mining Division, Ontario, Canada**

2.34187

*G. Katchan*

*Arden Solo*

21 September 2006

George Katchan  
Exploration Manager  
Argosy Minerals Inc

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## 1 Introduction

The Lac Panache Project lies some 40km southwest of the 1,850 Ma Sudbury Igneous Complex, the largest known concentration of nickel-copper sulphides in the world. Of principal interest at Panache is a mafic composition intrusion that is known to host anomalous concentrations of nickel – copper – platinum – palladium.

The property is subject to an option agreement between Argosy Minerals Inc and Gordon Salo. Signed in April 2005, the agreement allows for Argosy to earn a 100% stake in the property by means of staged option payments and meeting certain annual exploration expenditures. The agreement is subject to a net smelter return over which Argosy has buy-back provisions.

This report summarises work completed during Argosy's first season of exploration at Panache. While backhoe excavations commenced July 28 2005, geological mapping and sampling was carried out between 18 Oct. and 17 Nov. 2005.

## 2 Location and Access

The Panache property is located within the townships of Dieppe, Truman and Foster in the Sudbury Mining Division and consists of 4 separate claim blocks: Panache, Little Panache, Norwest and Brazil Lake (Figures 1 and 2).

The 3 eastern blocks, Panache, Little Panache and Norwest are reached by traveling west from Sudbury on regional road 55 to Whitefish then south on Route 10 to the marina on Lake Panache. The residence and wharf of Gordon Salo are located some 11 km west of the marina along Northshore Road. The Panache block (Figure 3) can be reached by boat from Mr Salo's wharf. Little Panache and Norwest blocks are accessed by 4WD trails that lead northwards from Northshore Road.

Brazil Lake is reached by traveling eastwards from the town of Espanola on Queensway Avenue which becomes Panache Lake Road/Penage Lake Road for 7.8 km from the initial junction with Centre Street in downtown Espanola. An all-weather gravel road is then followed northwards for 1.9km to a car parking area adjacent to Brazil Creek. A 2.5km ATV trail leads from the latter to the main adit on the claims.

## 3 Title

The Panache property consists of 4 separate claim block areas: Panache, Little Panache, Norwest and Brazil Lake (Tables 1 and 2). Total claim area is 32.2 km<sup>2</sup>.



**Figure 1**

**Table 1: Panache Project**

	Number of Claims	Number of Claim Units	Townships
Panache	39	158	Dieppe, Truman
Little Panache	2	2	Dieppe
Norwest	1	1	Dieppe
Brazil Lake	6	40	Foster
<b>Total</b>	<b>48</b>	<b>201</b>	



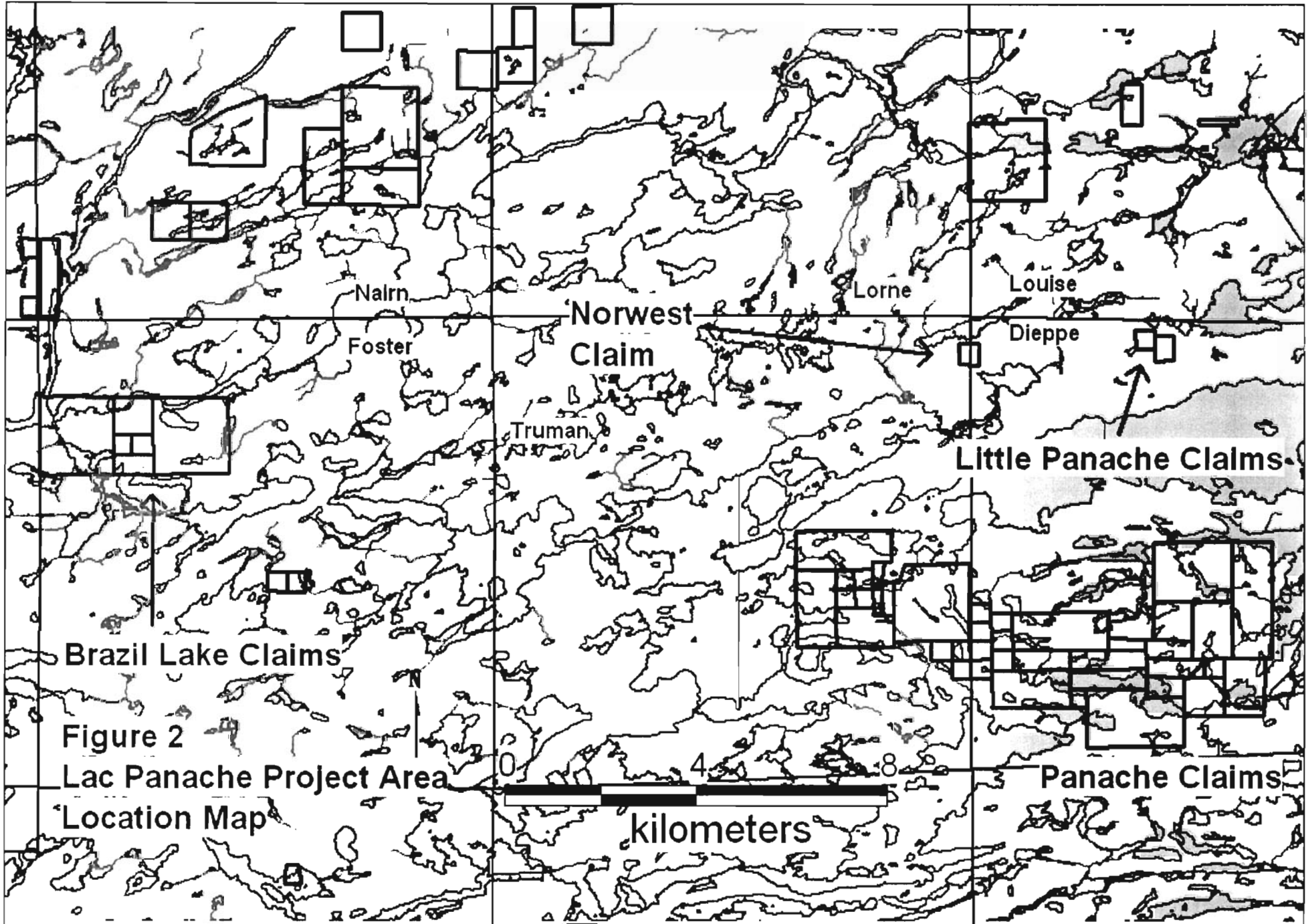
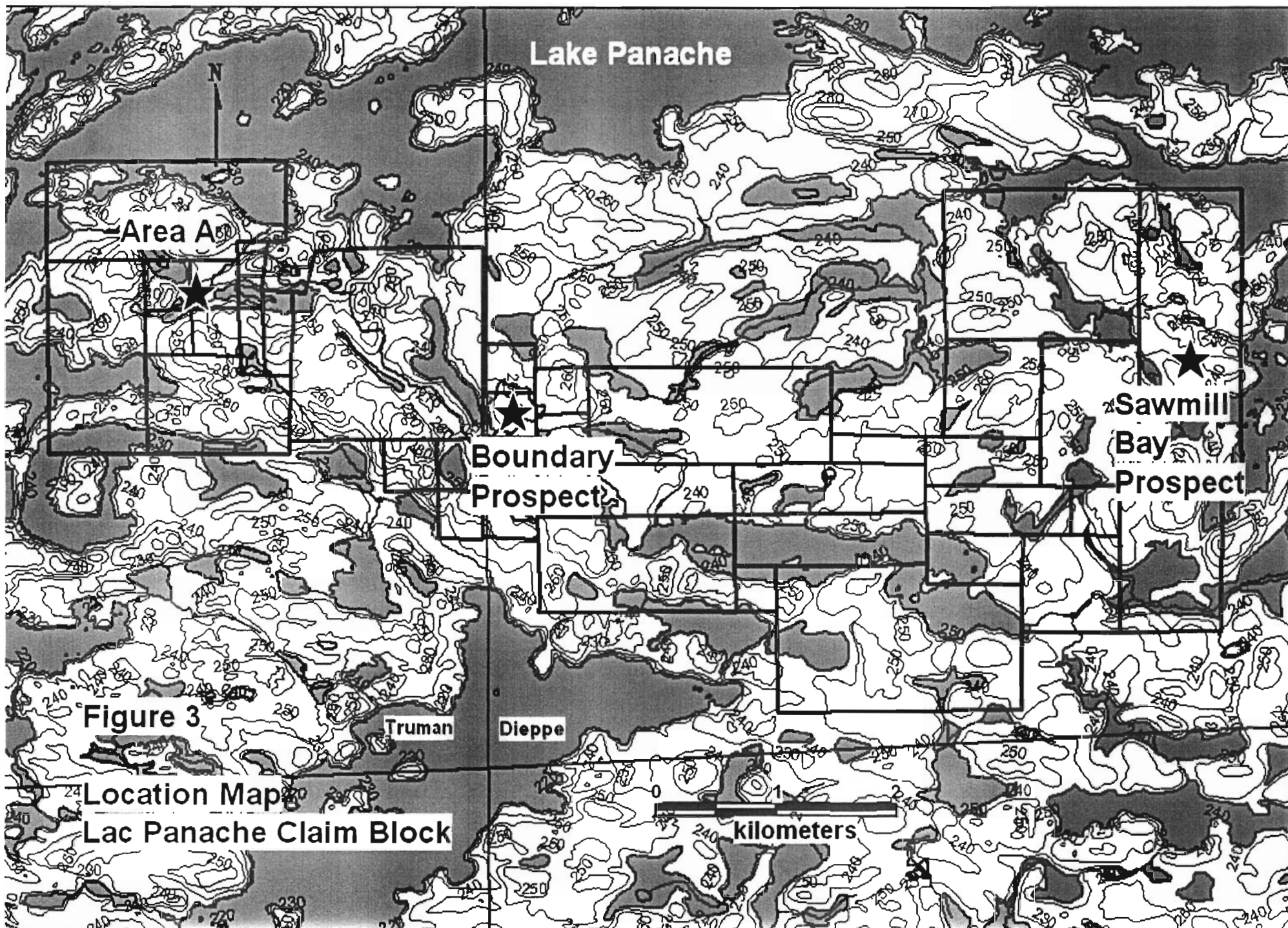


Figure 2

Lac Panache Project Area

Location Map



**Figure 3**

**Location Map**

**Lac Panache Claim Block**

**Table 2: SUDBURY Mining Division - 191069 - SALO, GORDON RICHARD**

Township Area	Claim Number	Recording Date	Claim Due Date	Status	Percent Option	Work Required	Total Applied	Total Reserve	Claim Bank
DIEPPE	1117800	1990-Oct-31	2007-Oct-31	A	100%	\$298	\$6,104	\$0	\$0
DIEPPE	1118145	1991-Apr-18	2010-Apr-18	A	100%	\$400	\$6,800	\$1,661	\$0
DIEPPE	1118146	1991-Apr-18	2010-Apr-18	A	100%	\$400	\$6,800	\$1,672	\$0
DIEPPE	1179288	1993-Mar-15	2007-Mar-15	A	100%	\$295	\$4,515	\$0	\$0
DIEPPE	1197245	1995-Mar-08	2007-Mar-08	A	100%	\$1,200	\$10,800	\$0	\$0
DIEPPE	1197246	1995-Mar-08	2007-Mar-08	A	100%	\$1,200	\$10,800	\$0	\$0
DIEPPE	1197247	1995-Mar-08	2007-Mar-08	A	100%	\$400	\$3,600	\$0	\$0
DIEPPE	1197248	1995-Mar-08	2007-Mar-08	A	100%	\$1,600	\$14,400	\$0	\$0
DIEPPE	1197249	1995-Mar-08	2007-Mar-08	A	100%	\$800	\$7,200	\$0	\$0
DIEPPE	1198467	1995-Jul-04	2007-Jul-04	A	100%	\$400	\$3,600	\$0	\$0
DIEPPE	1198468	1995-Jul-04	2007-Jul-04	A	100%	\$400	\$3,600	\$0	\$0
DIEPPE	1198471	1995-Jul-04	2007-Jul-04	A	100%	\$400	\$3,600	\$0	\$0
DIEPPE	1198472	1995-Jul-04	2007-Jul-04	A	100%	\$400	\$3,600	\$0	\$0
DIEPPE	1198474	1996-Apr-15	2007-Apr-15	A	100%	\$6,000	\$48,000	\$0	\$0
DIEPPE	1198475	1996-Apr-15	2007-Apr-15	A	100%	\$2,400	\$19,200	\$0	\$0
DIEPPE	1198476	1996-Jun-14	2007-Jun-14	A	100%	\$400	\$3,200	\$0	\$0
DIEPPE	1198478	1996-Jun-14	2007-Jun-14	A	100%	\$4,000	\$32,000	\$0	\$0
DIEPPE	1198479	1996-Jun-14	2007-Jun-14	A	100%	\$1,800	\$12,800	\$0	\$0
DIEPPE	1198480	1996-Jun-14	2007-Jun-14	A	100%	\$1,200	\$9,600	\$0	\$0
DIEPPE	1198481	1996-Jun-14	2007-Jun-14	A	100%	\$1,600	\$12,800	\$0	\$0
DIEPPE	1198487	1996-Jun-14	2007-Jun-14	A	100%	\$3,200	\$25,600	\$0	\$0
DIEPPE	1214908	1996-Jun-14	2007-Jun-14	A	100%	\$400	\$3,200	\$0	\$0
DIEPPE	1214909	1996-Jun-14	2007-Jun-14	A	100%	\$800	\$6,400	\$0	\$0
DIEPPE	1214921	1996-Jun-14	2007-Jun-14	A	100%	\$400	\$3,200	\$0	\$0
DIEPPE	1231351	1998-Apr-14	2007-Apr-14	A	100%	\$4,800	\$28,800	\$0	\$0
DIEPPE	1231352	1998-Apr-14	2007-Apr-14	A	100%	\$2,400	\$14,400	\$0	\$0
DIEPPE	1231353	1998-Apr-14	2007-Apr-14	A	100%	\$4,800	\$28,800	\$0	\$0
DIEPPE	1231357	1998-Jun-07	2007-Jun-07	A	100%	\$1,600	\$8,000	\$0	\$0
FOSTER	1214966	1998-Apr-20	2009-Apr-20	A	100%	\$400	\$3,600	\$0	\$0
FOSTER	1241715	2005-Apr-20	2007-Apr-20	A	100%	\$400	\$0	\$0	\$0
FOSTER	1241716	2005-Apr-20	2007-Apr-20	A	100%	\$1,600	\$0	\$0	\$0
FOSTER	1241717	2005-Apr-20	2007-Apr-20	A	100%	\$800	\$0	\$0	\$0
FOSTER	1241718	2005-Apr-20	2007-Apr-20	A	100%	\$6,400	\$0	\$0	\$0
FOSTER	1241719	2005-Apr-20	2007-Apr-20	A	100%	\$6,400	\$0	\$0	\$0
TRUMAN	1198469	1995-Jul-04	2007-Jul-04	A	100%	\$6,314	\$57,886	\$0	\$0
TRUMAN	1198470	1995-Jul-04	2007-Jul-04	A	100%	\$800	\$7,200	\$0	\$0
TRUMAN	1198477	1996-Jun-14	2007-Jun-14	A	100%	\$400	\$3,200	\$0	\$0
TRUMAN	1198482	1996-Jun-14	2007-Jun-14	A	100%	\$400	\$3,200	\$0	\$0
TRUMAN	1198483	1997-Apr-22	2007-Apr-22	A	100%	\$4,000	\$28,000	\$0	\$0
TRUMAN	1198484	1997-Apr-22	2007-Apr-22	A	100%	\$3,200	\$22,400	\$0	\$0
TRUMAN	1198486	1997-Apr-22	2007-Apr-22	A	100%	\$2,400	\$16,800	\$0	\$0
TRUMAN	1214926	1998-Jun-07	2008-Jun-07	A	100%	\$400	\$2,400	\$0	\$0
TRUMAN	943594	1986-Nov-03	2008-Nov-03	A	100%	\$400	\$8,000	\$0	\$0
TRUMAN	943595	1986-Nov-03	2008-Nov-03	A	100%	\$400	\$8,000	\$0	\$0
TRUMAN	943596	1986-Nov-03	2008-Nov-03	A	100%	\$400	\$8,000	\$0	\$0
TRUMAN	943597	1986-Nov-03	2008-Nov-03	A	100%	\$400	\$8,000	\$0	\$0
TRUMAN	943598	1986-Nov-03	2008-Nov-03	A	100%	\$400	\$8,000	\$0	\$0
TRUMAN	984043	1987-May-15	2009-May-15	A	100%	\$400	\$8,000	\$0	\$0

#### 4 Regional Geology

The Lac Panache project area lies within the Southern Province, one of three subdivisions within the Canadian Shield. Palaeoproterozoic metasedimentary and subordinate metavolcanics of the Huronian Supergroup (~2.5 - 2.22 Ga) form part of the Southern Province (Bennett et al., 1991). The Huronian Supergroup lies unconformably on Archaean rocks of the Superior Province.

The Huronian metasediments are described by Card (1975, 1978) as being dominantly coarse clastic sedimentary rocks derived mainly from the Superior Province craton to the north and deposited, for the most part, in fluvial-deltaic and marine neritic environments. Intrusive rock units identified in the project area include Nipissing Diabase (2.15 Ga) and diabase dikes (1.2-1.5 Ga). Rocks in the region were subjected to deformation and

regional metamorphism during a series of events that started prior to emplacement of the Nipissing Diabase and culminated around 1.7-1.8 Ga in the Penokean Orogeny (Card, 1975).

The term “Nipissing Diabase” has been used to refer to a tholeiitic composition gabbro intrusions of Palaeoproterozoic age (~2.1 Ga) that occur throughout the eastern part of the Southern Province (Card, 1975). These intrusions commonly exhibit the effects of greenschist to amphibolite facies regional metamorphism. In the metagabbros the original pyroxene and calcic plagioclase have been replaced by amphibole, sodic plagioclase, epidote, talc, chlorite and quartz (Bennett et al., 1991).

## 5 Previous Exploration

J.A. McClasky

In 1954 J.A. McClasky completed 2 diamond drill holes on claim S-75514 within what is now part of the Panache claim group. The western boundary of this claim lay along the Truman-Dieppe township boundary. The 2 holes totaling 138m intersected what was described as chalcopyrite – pyrite – pyrrhotite bearing quartzite and basalt, the “basalt” probably being a Nipissing Gabbro. No assay results are recorded.

Hoyle Mining Company Limited

Hoyle Mining held 33 unpatented claims in 1957 covering the current Norwest claim unit (Card et al, 1975). Hoyle carried out geological, geophysical (magnetometer) and geochemical surveys in the area and drill tested the main prospect area over a strike length of 550m by means of 14 diamond drill holes (totaling ~200m).

Mattagami Lake Mines Limited

In 1976 Mattagami completed 6 diamond drill holes, totaling 2,564 feet (782m) across 5 claims in the Little Panache area (Steinert, 1976). Drilling targeted combined IP and magnetic geophysical anomalies localised in quartzite and quartz pebble conglomerate host rocks. Mineralisation intersected in the drill holes tended to be localized in quartz pebble conglomerates and consisted of pyrite – chalcopyrite bearing quartz veinlets.

Although holes were assayed for Au, Cu and Ni only Cu grades showed any appreciable anomalism. The best interval returned 11.7m with 1.24% Cu (hole D-B-76/1). Hole D-B-76/5 was collared so as to intersect mineralization some 30m (100 feet) vertically below hole 76/1. Best grades in 76/5 were 3.05m with 0.57% Cu and 3.05m with 0.68% Cu in quartz pebble conglomerates. Drill holes along strike of the above two failed to return any significant results.

### Lac Minerals Limited

Lac completed a combined heli-borne magnetic and electromagnetic survey over an area that included the current Lac Panache block of claims in 1983 (Aerodat, 1983). Some 60 conductors were identified of which 27 were considered to have a strong likelihood of having bedrock sources. Although conductors were identified within the Panache area there is no record of any follow-up activities.

### Uranex Resources Limited

Through 1986 – 1987 Uranex carried out exploration activities on claims covering their “Hoyle Prospect” (Norwest claim), the same area previously investigated by Hoyle Mining Company Limited in 1957. Work included VLF, magnetic and radiometric surveys (Harper, 1986) as well as mapping and rock chip sampling (Hum, 1986).

Harper (1986) described pyrrhotite, pyrite and chalcopyrite associated with a quartz vein exposed in two pits separated by some 25 metres. Host rocks are Serpent Formation quartzites. The near vertical quartz vein which ranges in width from less than a metre to ~8m has been traced along strike (075°) for some 200m. A total of 15 rock samples, collected in the vicinity of the two pits, were assayed for Pt, Pd and Co. Whereas Pt and Pd grades were all low, Co grades ranged between 3 and 600 ppm. The highest Co values correlated with increased pyrrhotite-pyrite content in the samples.

Harper (1986) reported that the VLF survey was able to trace the sulphide mineralization at Hoyle Prospect for a distance of 1200 feet (365m). If a second VLF anomaly proves to be a faulted offset then the total length of the anomaly could be 2400 feet (730m). A magnetometer survey returned a localized anomaly that correlated with pyrrhotite distribution in the main vein zone. The radiometric survey failed to detect any anomalous results.

Harper (1987) reported on a small sampling program during which 7 rock samples were collected along the strike of the strong VLF anomaly but away from the known mineralization associated with the 2 pits at Hoyle Prospect. Samples returned negligible Co with the highest assay being 43 ppm. No further work is reported by Uranex.

### BP Resources Canada Limited

The Mining Division of BP Resources Canada Limited completed a helicopter-borne magnetometer and VLF-EM survey in 1987 (Berezowskyj & Reed, 1988). The south eastern portion of their “Area 13” covered most of what is now the Lac Panache group of claims. During the time of the 1987 survey BP resources held claims in the area.

The NW trending olivine gabbro dikes are the dominant feature of the magnetometer survey. BP Resources observed that the low or subdued magnetic expression of the Nipissing Gabbro made it difficult to distinguish from the surrounding metasediments. It



was also found that where the Nipissing gabbro was actually a metagabbro with amphibole as the principle mafic then the rock was typically non magnetic; in contrast pyroxene gabbro was more magnetic.

BP's VLF-EM survey identified a variety of responses over the claims. The most apparent are long narrow features that are associated with the NW trending olivine gabbro dikes. The VLF response is primarily low over the Nipissing gabbro. BP noted that a VLF response in Lake Bassoon may be caused by conductive lake bed material.

#### Pacific North West Capital Corp

Pacific North West Capital Corp ("PFN") completed a 6 month work program in 2000 restricting their interest to "Area B" (Boundary Prospect) within the Panache group of claims. Their work program included the surveying of a 15 line km exploration grid, an IP geophysical survey, trenching and channel sampling (Jobin-Bevans et al, 2001).

#### Mustang Minerals Corp

During 2001 Mustang Minerals Corp completed a program of mapping and sampling which targeted the PGE (platinum group element) potential of the Nipissing Gabbro within the Panache claim group.

The program was designed to cover the 20 km long property with preliminary mapping and sampling outside of the area already sampled/mapped by PFN. Mapping and rock chip sampling was carried out using cut survey lines as well as flagged reconnaissance lines.

## 6 Property Geology

### 6.1 Lac Panache Area Geology

Huronian metasedimentary rocks exposed in the Lac Panache area belong to the Quirke Lake Group. Formations represented at Panache are the Espanola Formation and the Bruce Formation. Both consist of clastic metasedimentary units with the Espanola Formation also including limestone and dolostone.

The basal part of the Quirke Lake Group, the Bruce Formation, is described by Card (1975) as a relatively thin, sheet-like body of polymictic paraconglomerate with minor amounts of intercalated quartz-feldspar sandstone, greywacke, siltstone and calcareous siltstone. The conglomerates are typically massive and unsorted.

The Espanola Formation, which overlies the Bruce Formation, consists of well bedded metamorphosed siltstone, sandstone, limestone and dolostone (Card, 1975). In some areas

Card (1975) has described local interstratification of Bruce-type conglomerate and Espanola-type calcareous rocks over a narrow stratigraphic interval.

At Lac Panache the Nipissing Diabase occurs as a roughly east-west trending arcuate sill that intruded along the boundary between the Bruce and Espanola Formations.

Near the eastern end of the Panache Nipissing Diabase intrusion are two NW-trending olivine-rich dikes that have cut across the Nipissing Diabase. Similar dikes found elsewhere in the region have been dated at 1.25-1.45 Ga and form part of the "Sudbury Swarm" (Card, 1975).

The regional geology surrounding the project area is shown in Figures 4 and 5 (legend). The underlying geology on Figure 4 has been taken from the 1 inch to 4 mile Sudbury – Cobalt sheet (Ontario Geological Survey Map 2361).

The Nipissing Diabase at Panache has been a prime focus for past exploration activity that was aimed at identifying economic concentrations of nickel, copper and PGE mineralization within the intrusion.

Lightfoot and Naldrett (1996) in a study of Nipissing intrusions within the central portion of the Southern Province noted that magmatic Ni-Cu-PGE mineralization is spatially associated with intrusions that lie on a NE trend that follows a significant regional gravity and aeromagnetic high. Panache lies at the W end of this trend. They also note that the disseminated sulphides tend to be focused in the interior of the sills, a feature that is also apparent at Panache.

Bennett et al., (1991) note that a leucocratic, granophyric phase of the gabbro is common in the upper parts of many Nipissing bodies in the Cobalt Embayment area. Similarly, a leucocratic, monzonitic composition phase is present on the southern shore of Lake Bassoon. This exposure is interpreted as being at the upper contact of the intrusion.

The style of Ni-Cu-PGE mineralization in the Panache Nipissing gabbro is a strata-bound form of mineralization (Type II of Vaillancourt et al, 2003) occurring within the body of the intrusion. Lane (2001) noted that most sulphides and PGEs are associated with coarse to pegmatitic, vari-textured phases of the intrusion in a zone that is some 60 – 80m below the upper contact of the intrusion. Individual disseminated blebs or aggregates of sulphide (pyrrhotite, chalcopyrite, pentlandite) reach about 5cm in size.

Mineralogy of the Espanola Formation rocks in close proximity to the southern contact of the Nipissing gabbro may be in large part due to the regional metamorphism. Card (1975) has described micas, chlorite, amphiboles, scapolite, garnet, idocrase (vesuvianite) and accessory epidote, clinozoisite, sulphides and iron-titanium oxides as phases within the recrystallised carbonates.

In a petrographic report Prevec (1997) described alkali feldspar, quartz, green muscovite and rutile from a grab sample of "albite fuchsite alteration" collected from the cobaltite exposure in Boundary Prospect (Appendix A: Sketch Map C).

Of interest is the presence of what has been described as fenite-style alteration within the Espanola and Bruce Formation metasediments in proximity to the Nipissing Diabase at Lac Panache. Fenitisation is regarded as a metasomatic alteration process during which alkali metals and ferric iron are added to the country rock and silica is removed (Card et al, 1975). This style of alteration has been described from Nemag Lake and Kusk Lake by Card (1975) and Card et al (1975). There the fenites are within altered metasediments of the Mississagi Formation and typically consist of a sodium-rich mineralogy: aegerine, riebeckite and alkali feldspars.

Meyer et al (1992) noted that this style of alteration, dated at 1.7 Ga, occurs on that part of the Sudbury structure which lies outside the Sudbury Igneous Complex. Metals found associated with this alteration include gold, copper, nickel and cobalt.

A petrographic report by Fitzhenry (2000) on samples collected from the Sketch Map C outcrop at Panache recorded labradorite feldspar, quartz and rutile as dominant phases with lesser fuchsite (chromium-rich muscovite), alkali feldspar and cobaltite. The majority of the quartz is secondary in origin having formed during a silicification event. It is noted in the report that the rock has a sedimentary origin and that where brecciated the matrix is enriched in rutile; these observations are consistent with those made during Argosy's Oct-Nov field program. Prevec (1997) described alkali feldspar (60%) and quartz (30%) in material collected from the same general location.

An occurrence of vein-style quartz-arsenopyrite-tourmaline-gold mineralization is present within the main Panache claim group (471303mE 5118931mN). A petrographic study on samples of the vein mineralization identified non-opaque phases: quartz, carbonate, biotite, tourmaline and muscovite in the veins (Schandl, 1996). Assays of 5 samples from this property by Cameco Gold Inc in 1996 returned 0.04-8.01 g/t gold and 39 ppm – 0.41% cobalt with arsenic contents ranging between 0.13 - +1%.

## 6.2 Norwest Claim Geology

The geology of the area covered by the Norwest Claim is described by Hum (1986). Quirke Lake Group metasedimentary rocks and Nipissing Gabbro underlie the claim block. The dominant Formation on the claim block is Serpent Formation quartzite; this unit forms the wallrocks to the sulphide-quartz vein style mineralization at Hoyle Prospect. Rock units exhibit a northeasterly strike direction with steep to moderate dips to both the northwest and southeast (Hum, 1986).



### 6.3 Little Panache Claim Geology

Units outcropping within the claim are Serpent Formation metasediments and Espanola Formation calcareous metasediments. Mineralisation is in the form of disseminated and veinlet pyrite-chalcopyrite.

### 6.4 Brazil Lake Claim Geology

Geology is dominated by Espanola Formation metacarbonates and Nipissing Gabbro. Skarn lateration has been recorded at the contact between the gabbro and carbonates of the Espanola Formation. Card (1984) described a “high grade grab sample” of pyrrhotite-cobaltite that assayed 9.16% Co and 3.56% Ni.

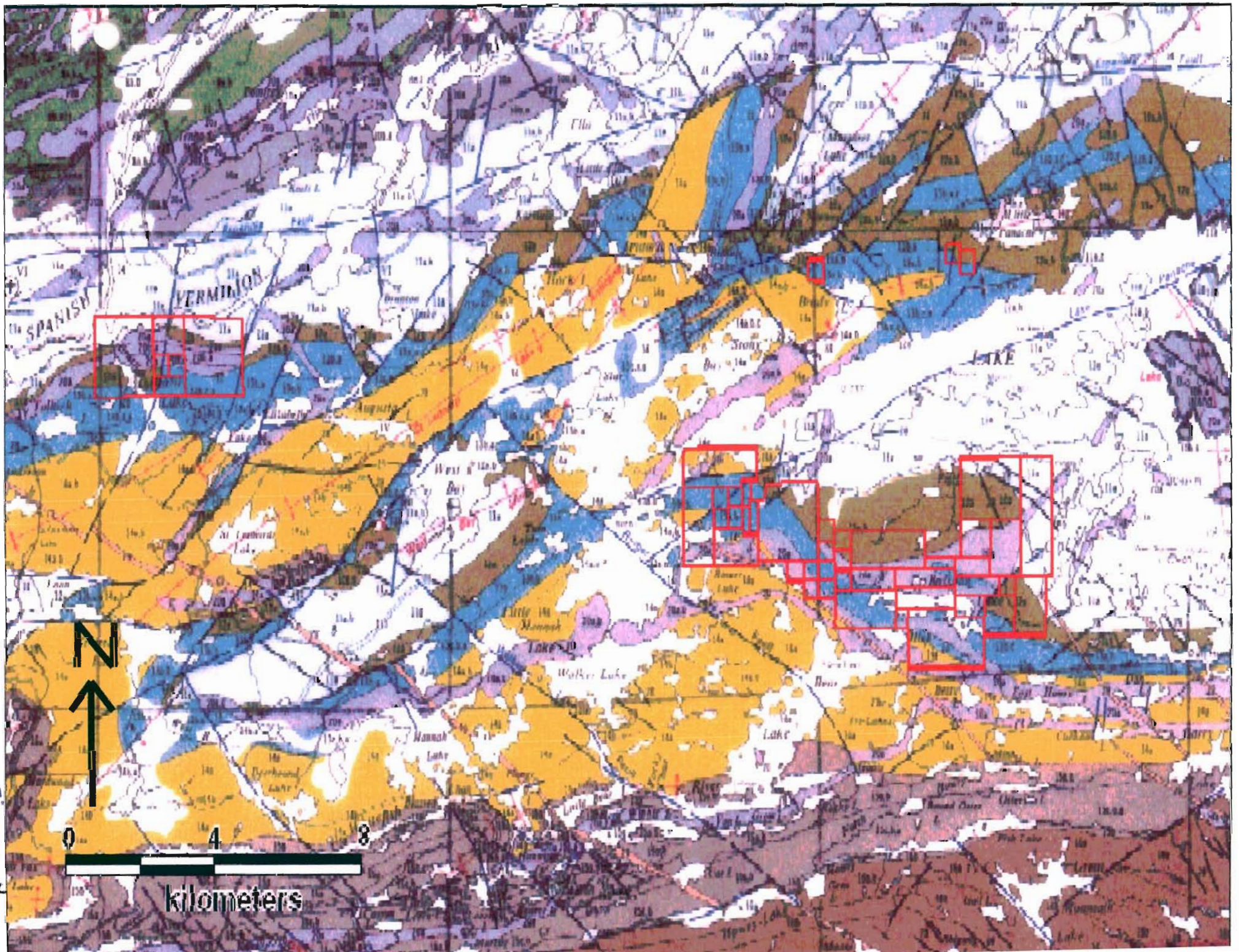
## 7 2005 Exploration Activities

During the 2005 field program Argosy carried out trail construction, trenching of some known geophysical and geochemical anomalies, mapping and sampling. The bulk of this activity took place on the western side of the Panache claim block where past geophysical work identified anomalies within and along the upper and lower contacts of the Nipissing Gabbro. Reconnaissance-scale sampling was carried out on the three smaller claim block areas (Brazil Lake, Little Panache and Norwest).

Approximately 2.5 km of new access trails plus 900 metres of trenching (measured along the long axis of the trench) were completed within the 2005 field season. A total of 129 samples were collected and submitted to SGS Canada Inc for assaying. Of the total number of samples, 62 were channel samples with a cumulative length of 122.65 metres and an average length of about 2 metres.

The Appendix A “Key for Geology Sketch Maps A – M” map shows the disposition of both existing trenches from earlier programs (areas E, F, G, H, I, J and M) and those exposed during the 2005 season (the remainder). The NW-trending trench exposing the skarn mineralization (areas E to J), though initially dug during a previous program, was washed down and sampled during the 2005 season.





kilometers


OGS MAP 7360



## HURONIAN SUPERGROUP<sup>h</sup>

### COBALT GROUP


#### BAR RIVER FORMATION

 22 Quartz sandstone, hematitic siltstone, and sandstone.

#### GORDON LAKE FORMATION

 21 Siltstone, argillite, sandstone.

#### LORRAIN FORMATION

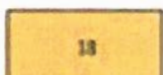
 20 Quartz sandstone, micaceous and aluminous quartz sandstone, quartz-feldspar sandstone, and minor conglomerate, and siltstone.

#### GOWGANDA FORMATION

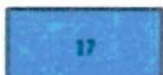
 19 Conglomerate, sandstone, siltstone, and argillite.

### QUIRKE LAKE GROUP

#### SERPENT FORMATION

 18 Quartz-feldspar sandstone with minor siltstone, calcareous siltstone, and conglomerate.

#### ESPANOLA FORMATION


 17 Limestone, dolostone, siltstone, and sandstone.

#### BRUCE FORMATION


 16 Conglomerate with minor sandstone and siltstone.

## HOUGH LAKE GROUP


### MISSISSAGI FORMATION

 15 Quartz-feldspar sandstone with minor siltstone, argillite, and conglomerate.

### PECORS FORMATION


 14 Siltstone, argillite, and greywacke with minor quartz-feldspar sandstone.

### RAMSAY LAKE FORMATION


 13 Conglomerate with minor sandstone and siltstone.

### ELLIOT LAKE GROUP

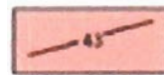
#### McKIM FORMATION

 12 Siltstone, greywacke, and argillite with minor quartz-feldspar sandstone.


#### MATINENDA FORMATION

 11 Quartz-feldspar sandstone with minor conglomerate and siltstone.

### MAFIC INTRUSIVE ROCKS<sup>b</sup>

 43 Unsubdivided.  
43a Diabase, quartz diabase dikes.  
43b Olivine diabase dikes.  
43c Gabbro, norite, pyroxenite, peridotite stocks.  
43d Partly serpentinized peridotite and minor olivine gabbro stocks.

### NIPISSING DIABASE

 24 Unsubdivided.  
24a Pyroxene gabbro, minor pyroxenite.  
24b Hornblende gabbro, metagabbro, amphibolite.  
24c Granophyre.

OGS Map 2360

Figure 5

Figure 4.

Figure 5.

7.1 Lac Panache Area

### Boundary Prospect

All of the trenching and most of the channel sampling activities that took place during the 2005 field program were carried out at Boundary Prospect. This area is referred to as “Area B” in earlier exploration reports. Sample locations are shown on Figure 6.

Geological sketch maps (A through M) of the main sampled outcrops and trenches are tabled in Appendix A.

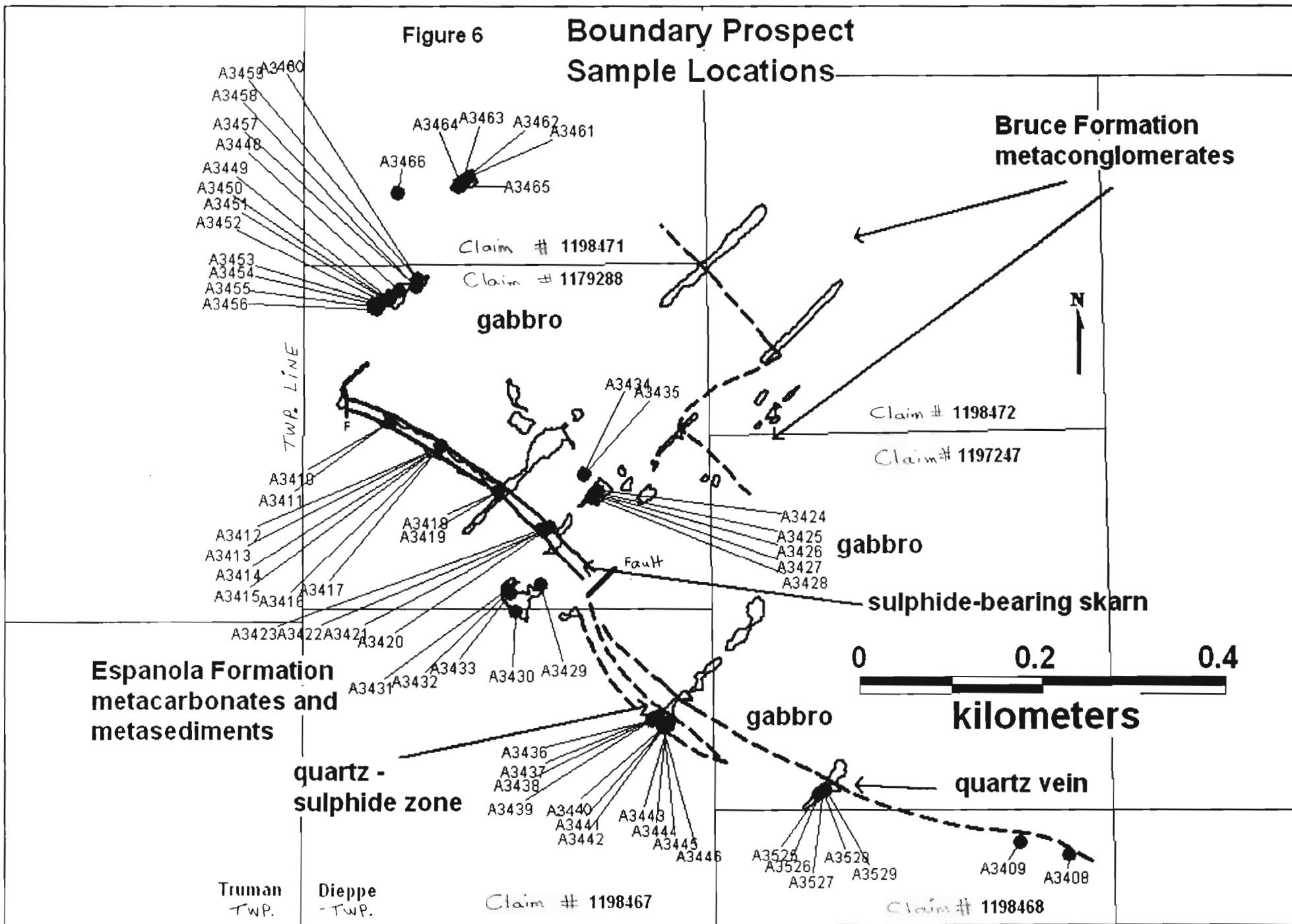
Trenching was carried out by means of an excavator that removed topsoil and overburden (mostly less than 2m thick) and stockpiled the material adjacent to the trench. The trench was then washed down to expose bedrock. A portable Stihl diamond blade cutter was used to cut a set of parallel 5cm deep channels from which the channel sample was taken. Individual channel samples, averaging 2m in length, range from 1.4 – 2.6m in length and 8 – 25kg in weight.

A ground IP/resistivity geophysical survey carried out in 2000 by a previous explorer identified a series of chargeability/conductivity anomalies that are related to the presence of sulphides. Some of these anomalies were subsequently investigated by means of trenching and channel sampling. Argosy focused on trenching and sampling of anomalies and their extensions not previously investigated.

A roughly linear NW-trending conductivity anomaly within the southern half of the geophysical survey area is located along the southern contact zone between Nipissing Gabbro and Espanola Formation well bedded metamorphosed carbonate-bearing clastics, siltstone and sandstone. As a result of the recent trenching program this contact zone, up to 14m in thickness, has now been traced for some 960m. The mineralogy of the zone changes along strike from a sulphide and magnetite bearing skarn-style assemblage within the NW half to a quartz +/- calcsilicates +/- sulphides vein/breccia/replacement style of mineralisation to the SE. The dominant skarn minerals are epidote and clinopyroxene with lesser phlogopite, actinolite and possible vesuvianite (idocrase). Sulphide minerals in the skarn are chalcopyrite, pyrite and pyrrhotite; magnetite is locally abundant.

Channel sampling was carried out at 7 locations along the strike of the contact zone with a total of 30 channel samples being collected. Copper assays range between 19 ppm in quartz vein material at the eastern end of the contact zone to 2m with 0.49% copper in

**Figure 6**  
**Boundary Prospect**  
**Sample Locations**



quartz-pyrite breccia near the central part. Concentrations of gold and other base metals are uniformly low.

The strong chargeability anomaly along the gabbro's northern contact was intersected in two new trenches. In each the anomaly was found to be caused by the presence of disseminated pyrite and pyrrhotite within metaconglomerates belonging to the Bruce Formation.

Isolated chargeability anomalies within the Nipissing Gabbro are related to zones of disseminated and fracture-controlled sulphides (mainly pyrrhotite and chalcopyrite with minor pentlandite). Channel sampling within gabbro returned only weakly anomalous grades, best being 6m with 0.27ppm platinum+palladium+gold. The best grab sample returned 0.57ppm.

### Sawmill Bay Prospect

Referred to as "Area C" in earlier reporting, Sawmill Bay Prospect is located near the eastern end of the Reconnaissance-scale rock chip sampling was conducted across the eastern end of the Nipissing Gabbro ("Area C") in order to help define areas for future trenching and possible drilling. Access into Area C is by means of boat and walking trails. Sampling by earlier explorers identified anomalous concentrations of gold, platinum, palladium, copper and nickel in sulphide-bearing gabbroic rocks belonging to the Nipissing Gabbro.

A total of 45 grab samples of outcrop/subcrop were taken along a 2.9 km long interval of gabbro (Figure 7). A central 1km length of strike in which 25 samples were collected returned 11 samples with greater than 0.2% copper (maximum of 0.59% copper), 5 with greater than 0.1% nickel (maximum of 0.167%), and 6 with greater than 1ppm platinum + palladium + gold (maximum of 2.213 ppm). Samples carrying anomalous grades are metagabbro with disseminated and/or fracture-controlled sulphides (chalcopyrite, pyrrhotite, pyrite and pentlandite). The metagabbro is typically a weakly metamorphosed gabbro in which the mafic phases exhibit alteration to biotite and amphibole.

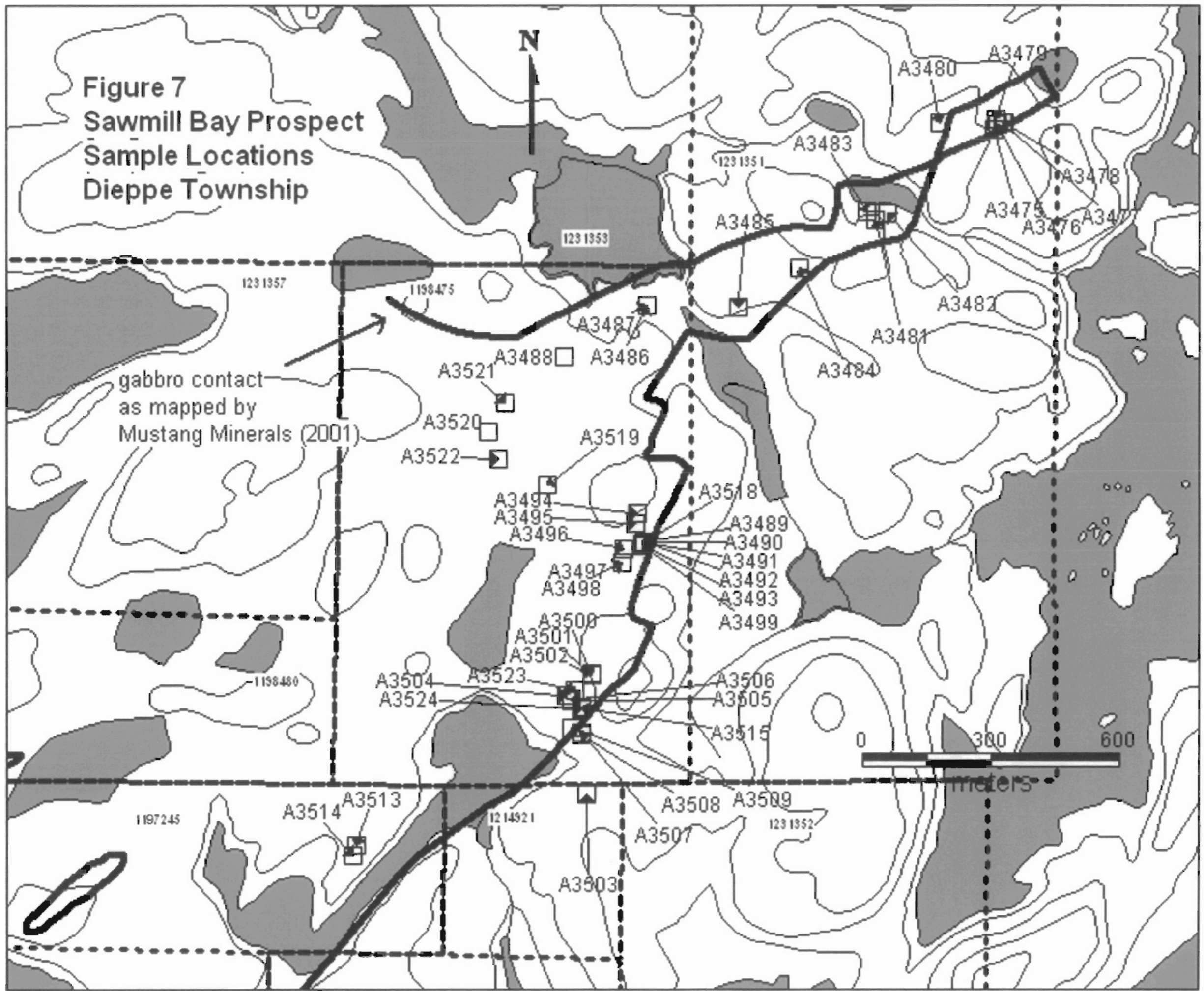
### Area A Sampling

Area A (Figure 3) sampling was restricted to 3 channel samples (total length 5.4m), two in small outcrops of a quartz breccia and one in a pyrrhotite-bearing gabbro. All 3 returned poor assay results.

## 7.2 Little Panache Claims



Figure 7  
Sawmill Bay Prospect  
Sample Locations  
Dieppe Township



Consisting of two claim units, the Little Panache claim block is located north of the main Panache claim block (Figure 1). Two outcrop samples were collected during a brief reconnaissance visit to the property.

A composite outcrop grab sample taken across a 5 x 5m area of chalcopyrite-bearing quartz stockwork veining in quartzite returned 0.6 ppm gold and 1.38% copper.

A grab outcrop sample of silicified limestone cut by stockwork quartz veining assayed 0.18 ppm gold and 3.48% copper.

Separated by 450 metres, further investigations will be needed to determine continuity of mineralisation between and around the two areas sampled.

### 7.3 Norwest Claim

Norwest consists of a single claim unit 3 ½ km west of Little Panache.

Sulphide mineralisation is exposed in a shallow pit that had been dug into a 6m wide subvertical vein/breccia with locally massive sulphides (pyrrhotite-pyrite-minor chalcopyrite). A composite chip sample taken across a 3m wide exposure rich in sulphides assayed 0.19% copper and 0.39% nickel. As the sulphide mineralisation is restricted to pods within the quartz vein there would seem to be limited upside potential.

An outcrop grab sample of slabby quartzite breccia failed to return any anomalous metal grades.

### 7.4 Brazil Lake Claims

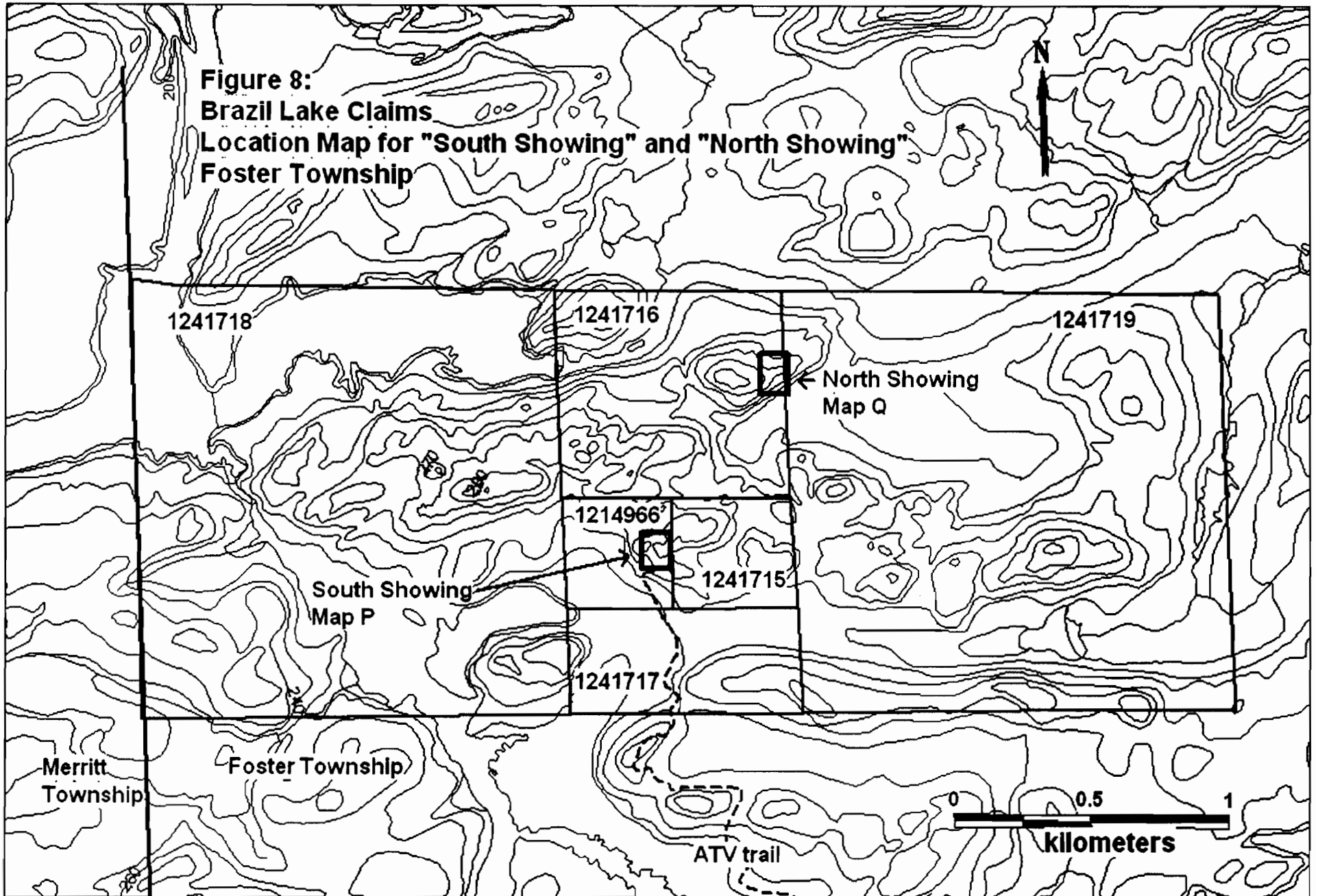
A total of 9 samples were collected from the Brazil Lake claim block.

Field mapping carried out by consultant Frank Racicot was completed across two areas: South Showing and North Showing (Figure 8; Appendix A: sketch maps L and M). Of interest at both areas is an up to 20m wide, roughly N-S trending quartz vein, some 50m (South Showing) to 75m (North Showing) in strike length. Though chalcopyrite is visible, locally, as coarse segregations rock samples only returned a maximum result of 0.3% Cu.

Sampling carried out in the vicinity of the old workings at Brazil Lake returned strongly anomalous nickel (0.64%) and cobalt (0.1%) grades from a 2m wide pod or vein of essentially massive pyrrhotite exposed in a trench. A grab sample of carbonate-rich, cobaltite-bearing stockpile material near the mouth of the same workings assayed 0.39% cobalt and 0.19% nickel.



**Figure 8:  
Brazil Lake Claims  
Location Map for "South Showing" and "North Showing"  
Foster Township**



## 8 Recommendations

It is recommended that a combined airborne EM and magnetometer survey be completed across the major prospect areas at Panache. Results from the survey will aid in prioritizing areas for subsequent follow-up work.

9      References

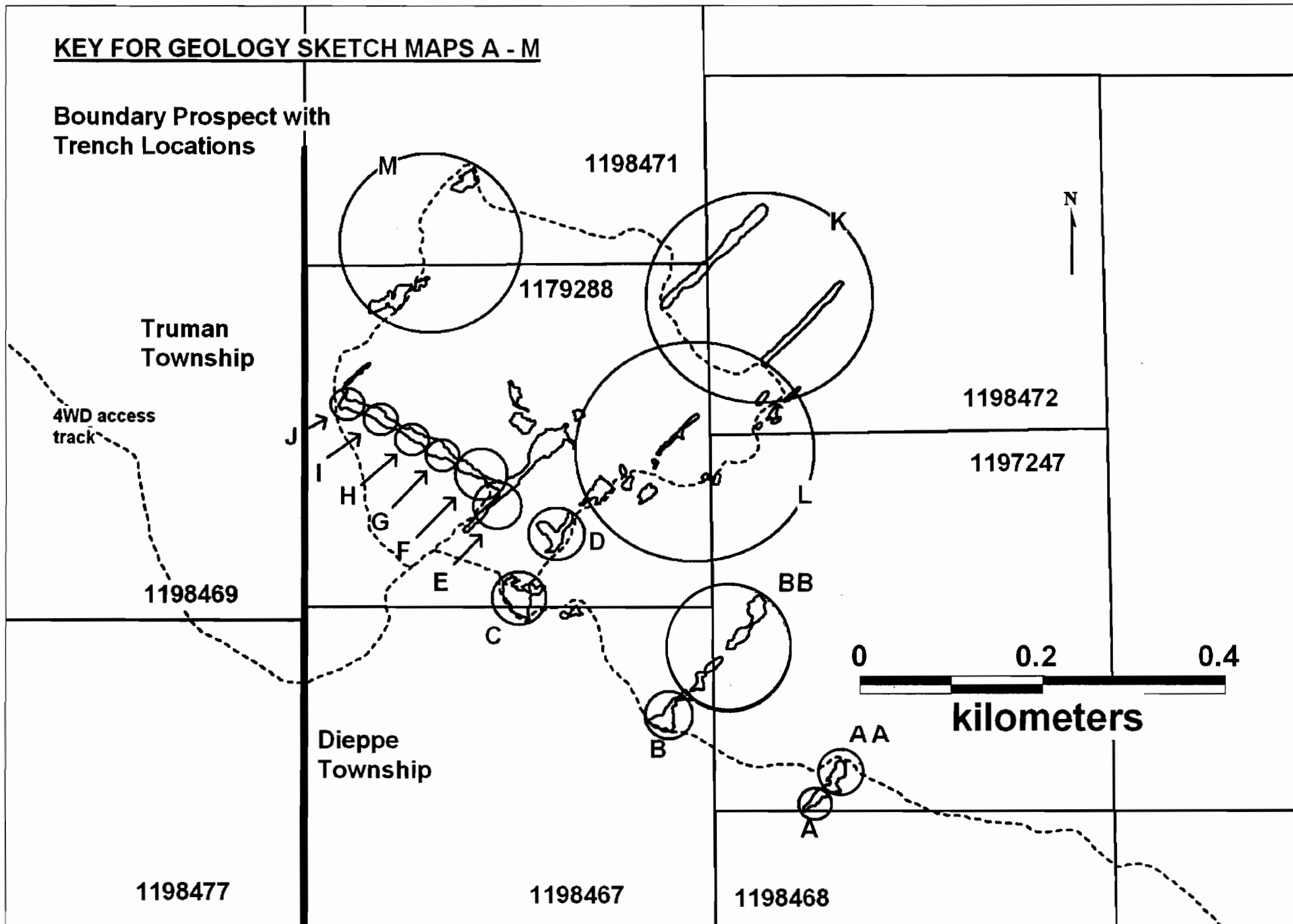
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- The Huronian Supergroup and Associated Intrusive Rocks; in Geology of Ontario, Ontario Geological Survey, Special Volume 4, Part 1, p.549-591.
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- Cosec, M. & Gates, B.I. 1992      Sudbury Resident Geologist's District – 1991; in Report of Activities 1991, Resident Geologists, Ontario Geological Survey, Miscellaneous Paper 158, p.329-337.
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- Harper, H.G. 1986 Uranex Resources Limited, Cobalt and Platinum Propsect, Truman and Diepe Townships, Sudbury Mining Division, Ontario.
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Investigation of Mafic-Ultramafic Intrusions in Ontario and Implications for Platinum Group Element Mineralisation: Operation Treasure Hunt; Ontario Geological Survey, Open File Report 6102, 335p.

**KEY FOR GEOLOGY SKETCH MAPS A - M**

**Boundary Prospect with  
Trench Locations**



**Truman  
Township**

4WD access  
track

1198469

**Dieppe  
Township**

1198477

1198467

1198468

1198471

1179288

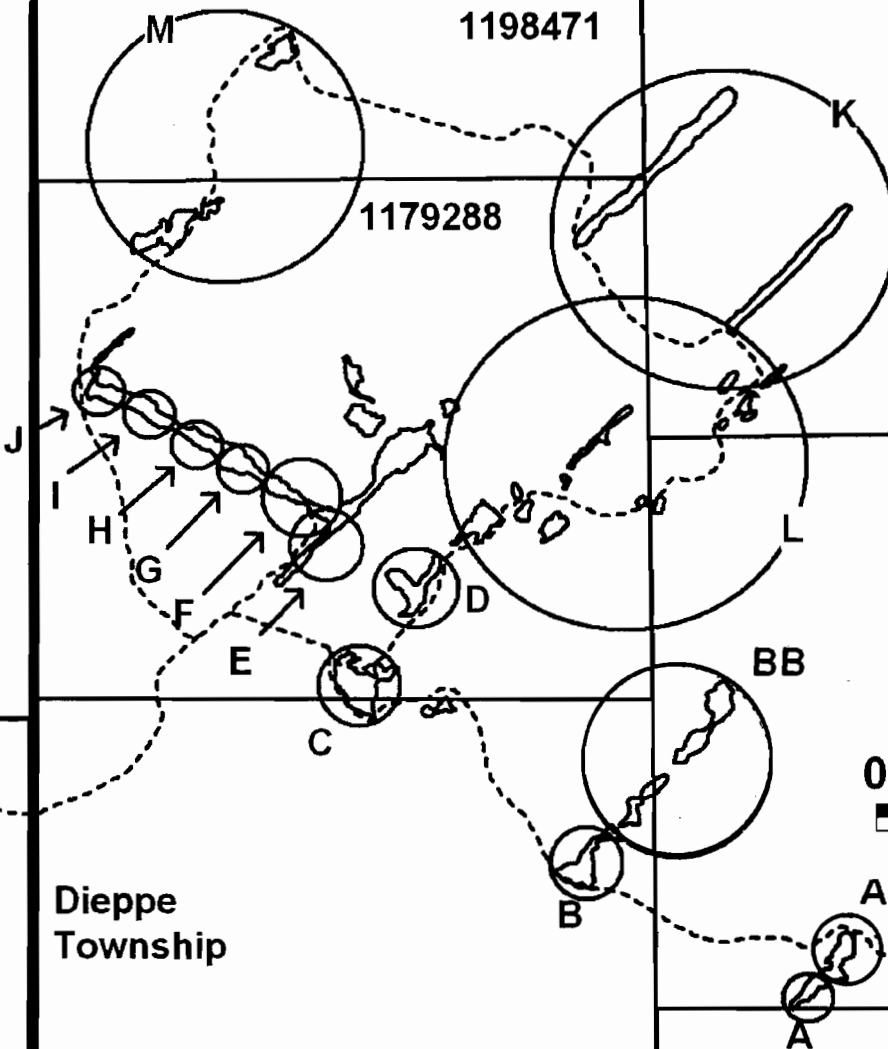
1198472

1197247

0 0.2 0.4

**kilometers**

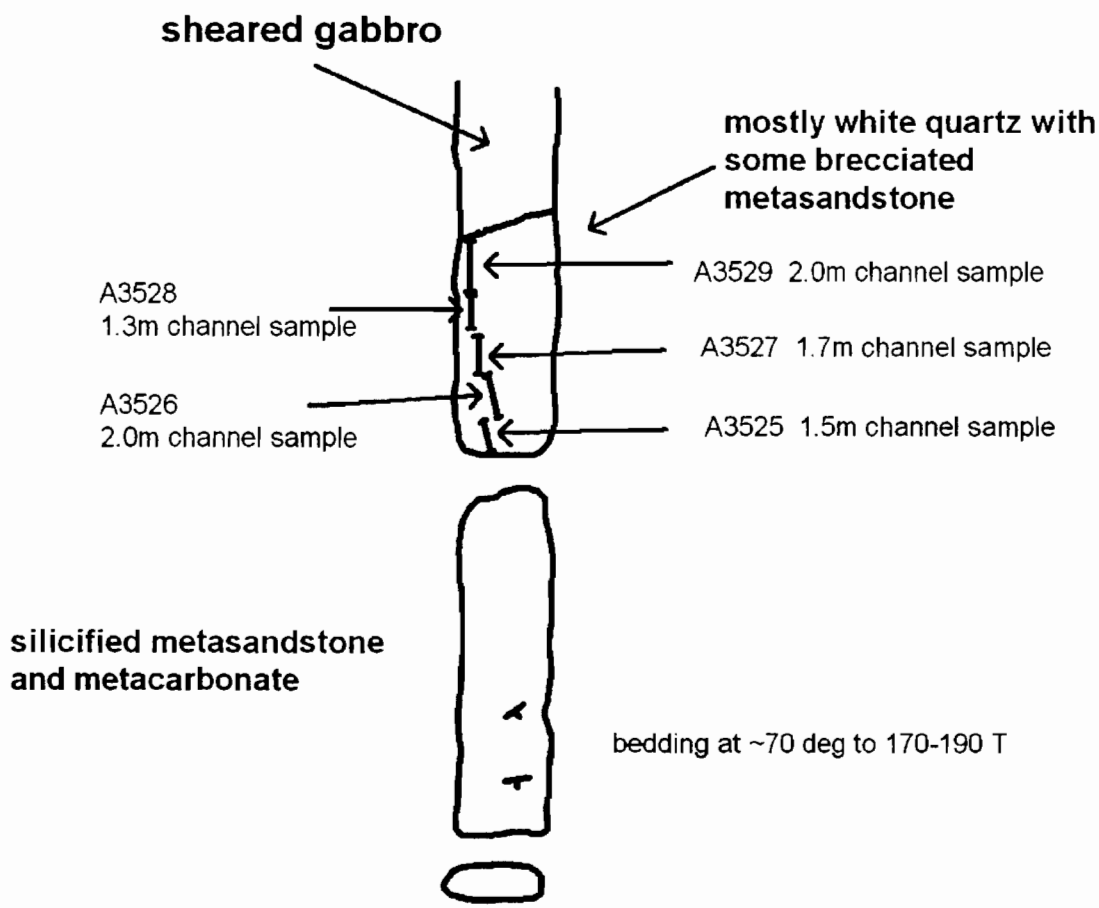
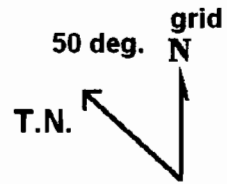
N



## **APPENDIX A**

### **GEOLOGY SKETCH MAPS A to R**

- 1. Key for Geology Sketch Maps A – M**
- 2. Sketch Map A (Boundary Prospect)**
- 3. Sketch Map AA (Boundary Prospect)**
- 4. Sketch Map B (Boundary Prospect)**
- 5. Sketch Map BB (Boundary Prospect)**
- 6. Sketch Map C (Boundary Prospect)**
- 7. Sketch Map D (Boundary Prospect)**
- 8. Sketch Map E (Boundary Prospect)**
- 9. Sketch Map F (Boundary Prospect)**
- 10. Sketch Map G (Boundary Prospect)**
- 11. Sketch Map H (Boundary Prospect)**
- 12. Sketch Map I (Boundary Prospect)**
- 13. Sketch Map J (Boundary Prospect)**
- 14. Sketch Map K (Boundary Prospect)**
- 15. Sketch Map L (Boundary Prospect)**
- 16. Sketch Map M (Boundary Prospect)**
- 17. Sketch Map N (Area A)**
- 18. Sketch Map NN (Area A)**
- 19. Sketch Map O (Norwest and Little Panache Claims)**
- 20. Sketch Map OO (Norwest and Little Panache Claims)**
- 21. Sketch Map P (Brazil Lake South Showing)**
- 22. Sketch Map Q (Brazil Lake North Showing)**
- 23. Sketch Map R (Norwest Claim)**

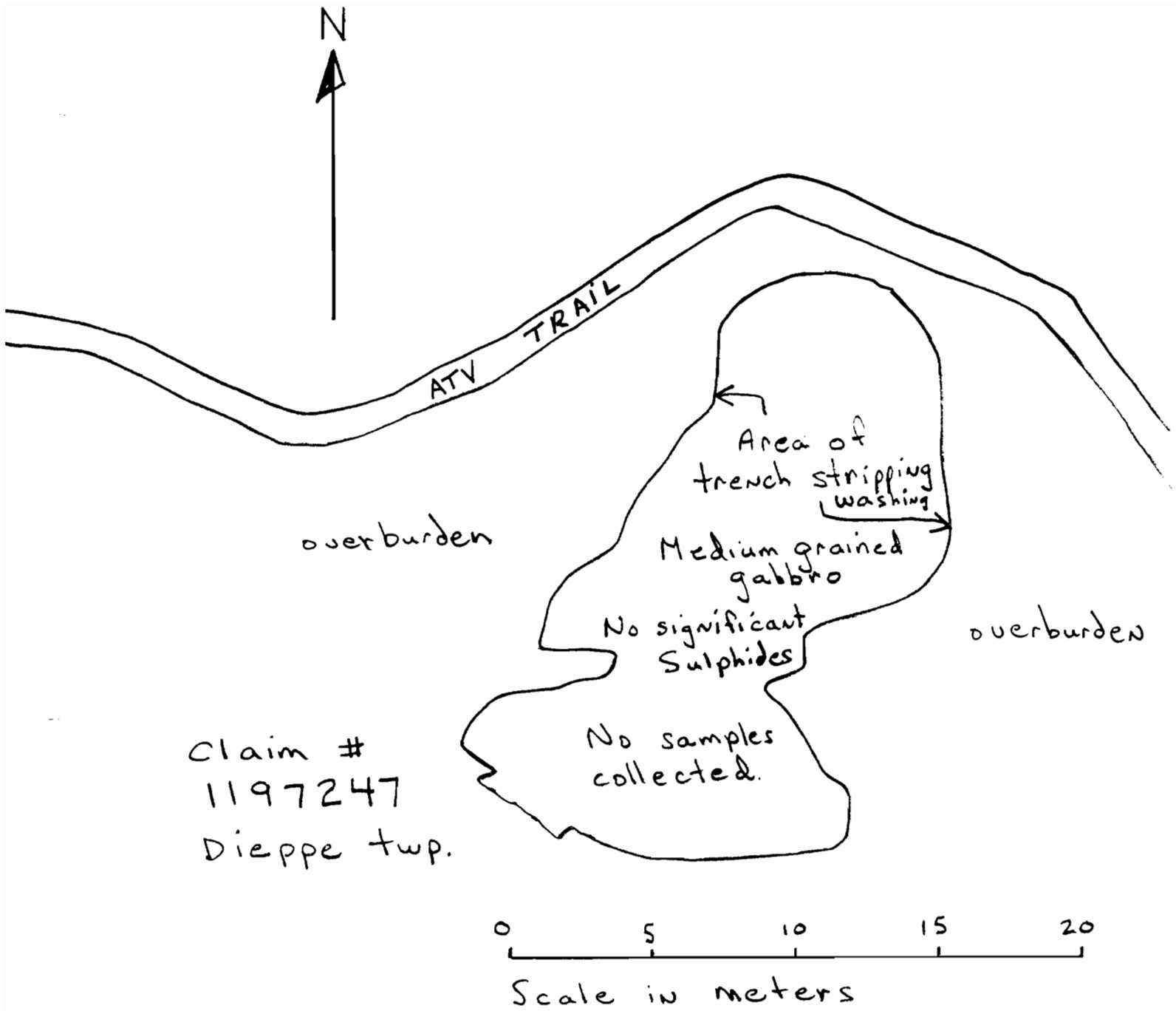


5 metres

★ 466848 mE 5118309 mN

**SKETCH MAP A**  
**Claim # 1197247**  
**Dieppe Township**



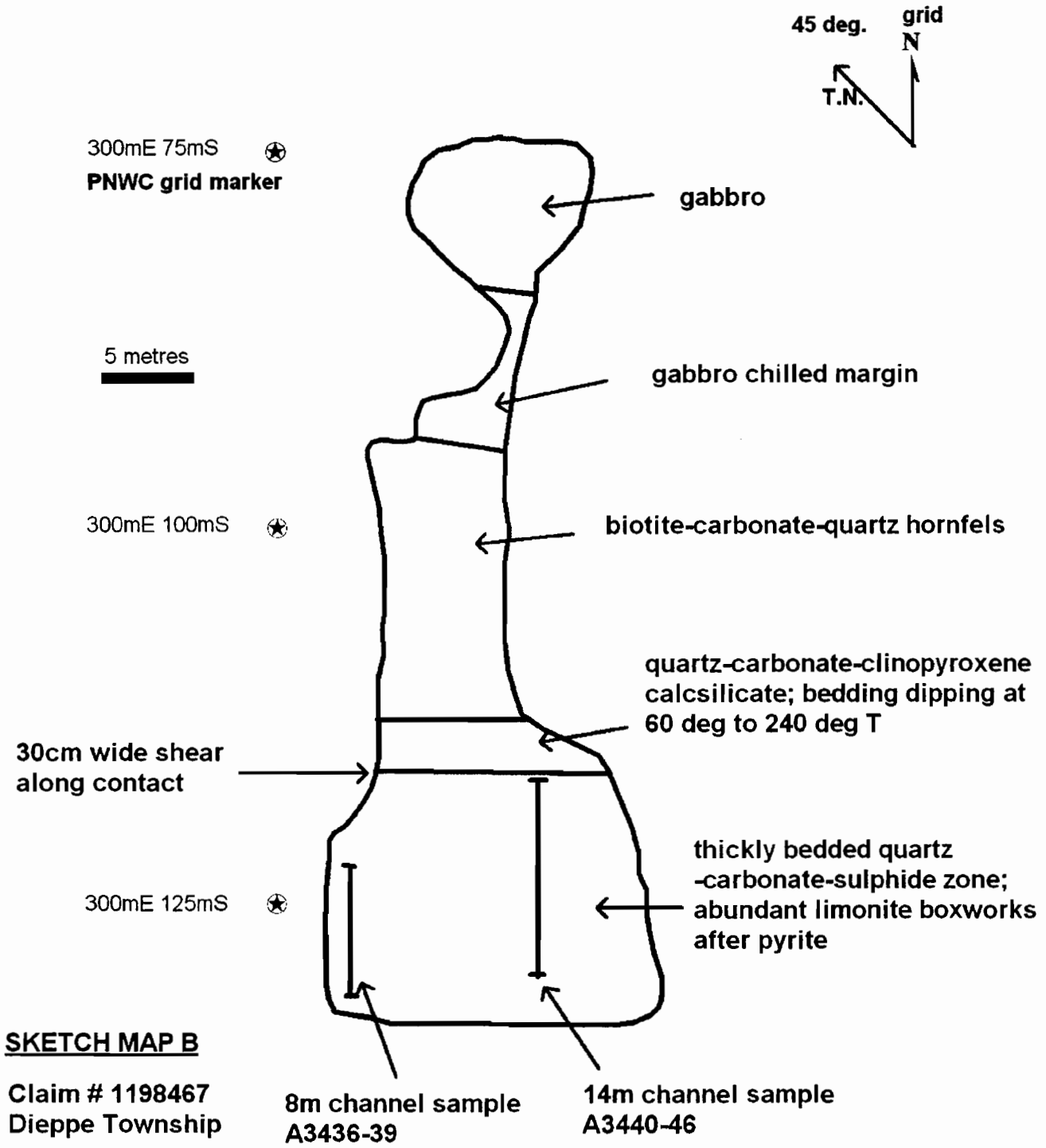


SKETCH MAP AA

Claim # 1197247

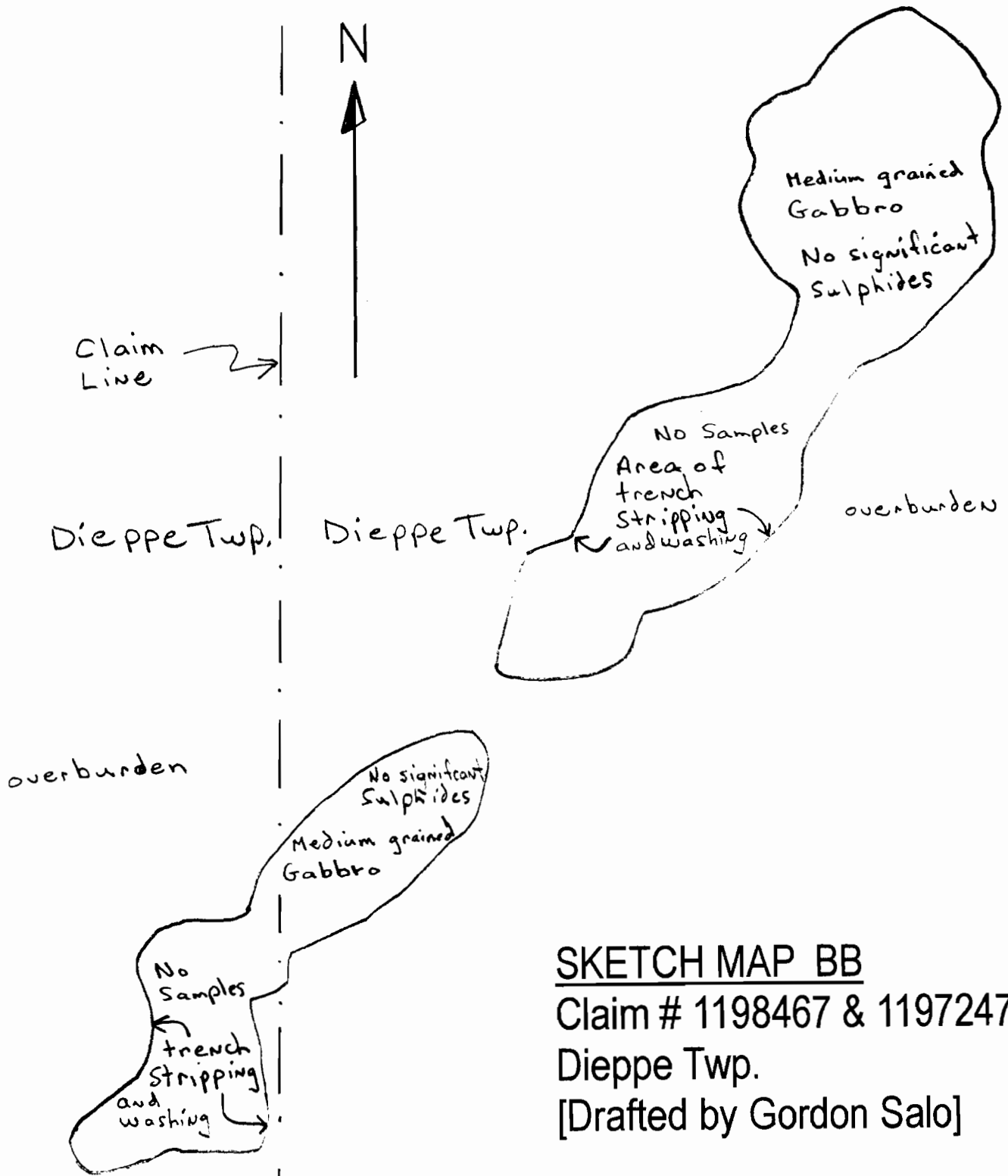
Dieppe Twp.

[Drafted by Gordon Salo]



**SKETCH MAP B**

**Claim # 1198467  
Dieppe Township**

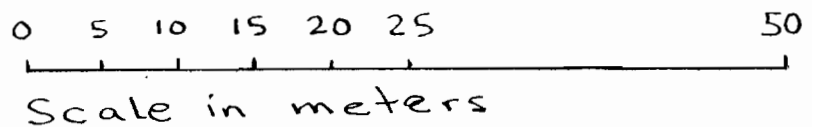


SKETCH MAP BB

Claim # 1198467 & 1197247

Dieppe Twp.

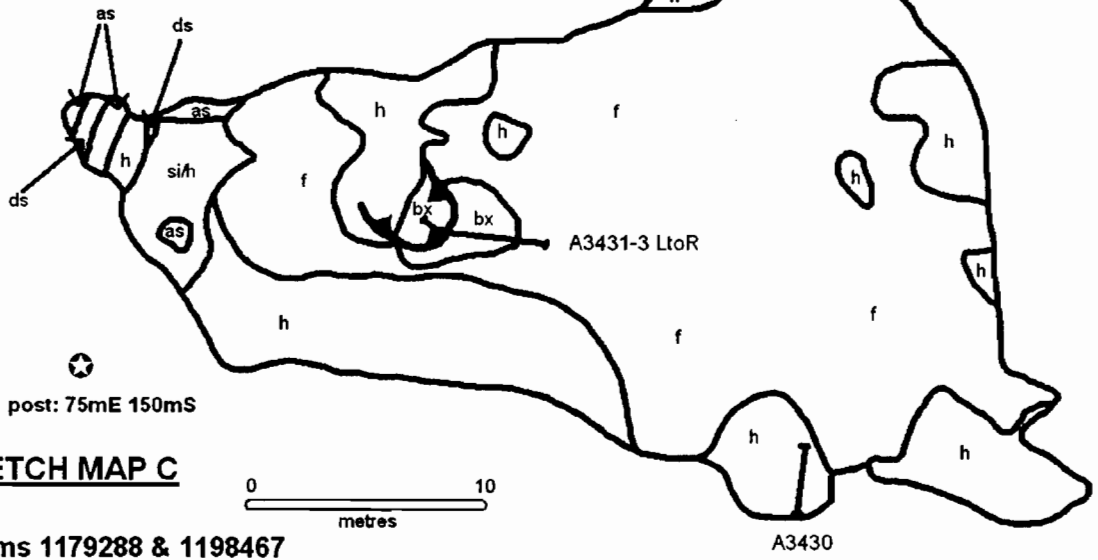
[Drafted by Gordon Salo]



Claim #  
1198467

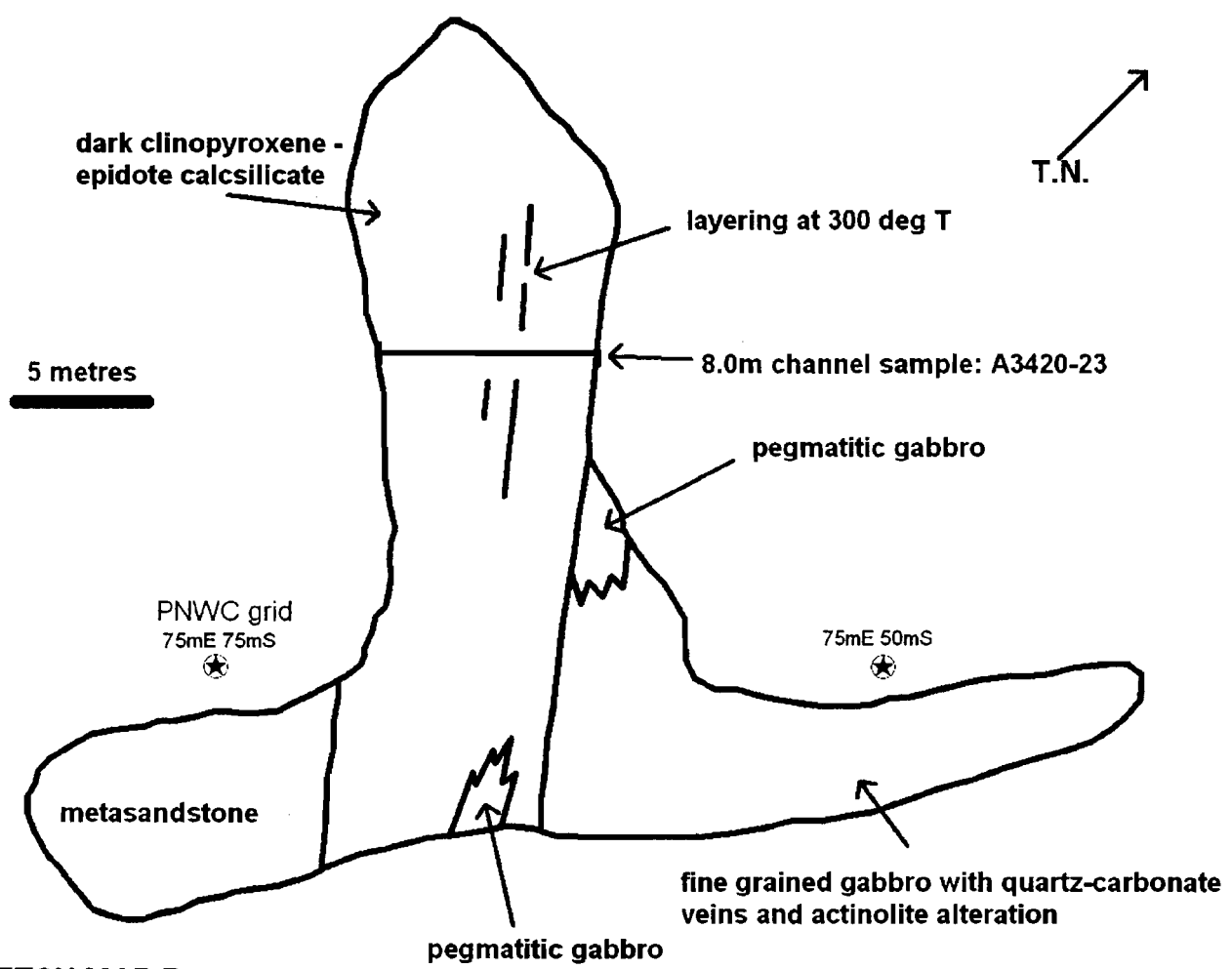
Claim #  
1197247

- sh spotted hornfels with trace disseminated sulphides
- as actinolite-rich banded calcsilicate
- ds diopside-carbonate-quartz banded calcsilicate
- f bleached-looking "fenite" altered hornfels
- h dark colored, fine grained calcic hornfels
- bx light brown "fenite" breccia
- si/h siliceous, quartz veined carbonate



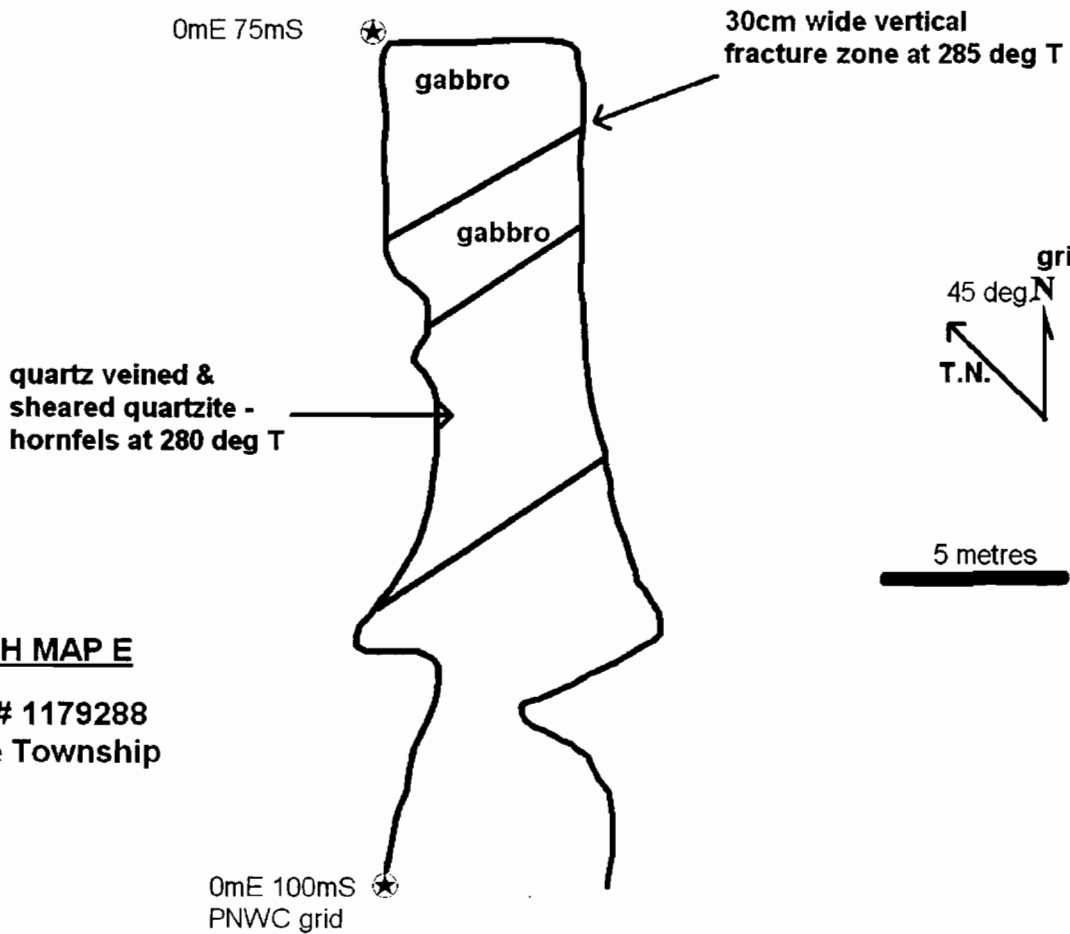
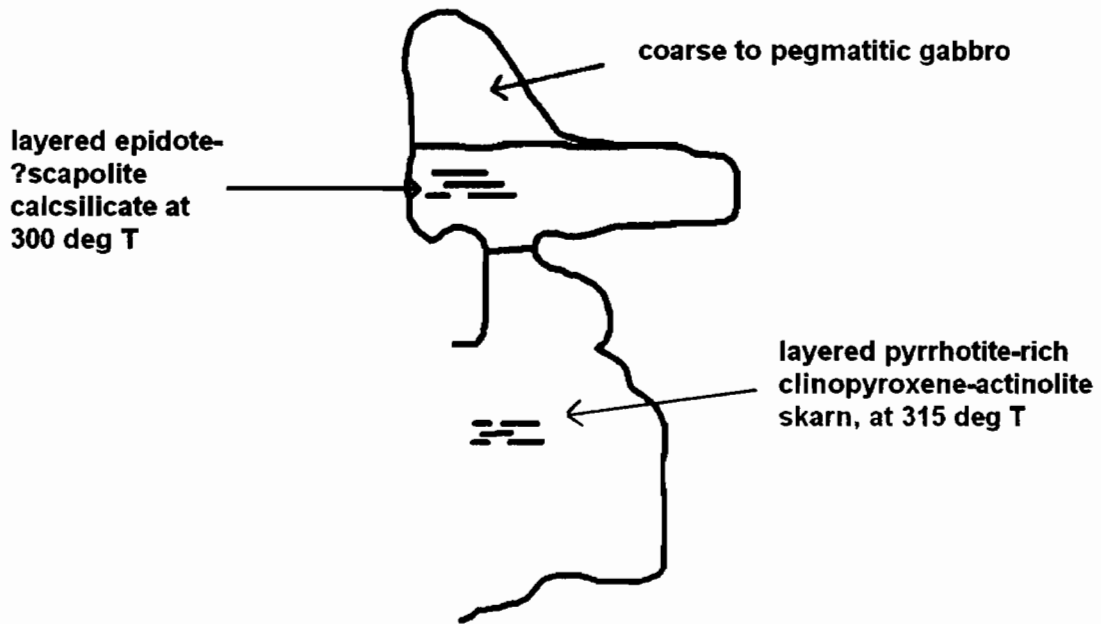
**SKETCH MAP C**

**Claims 1179288 & 1198467  
Dieppe Township**

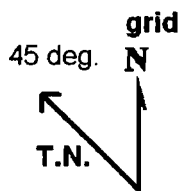


**SKETCH MAP D**

**Claim # 1179288  
Dieppe Township**



**SKETCH MAP E**  
**Claim # 1179288**  
**Dieppe Township**

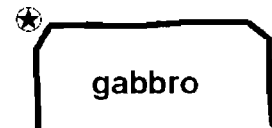


layered clinopyroxene-  
epidote calcsilicate with  
locally abundant pyrite-  
pyrrhotite; layering at  
300 deg T

3.95m channel sample  
A3418-19

Gordon Salo pit

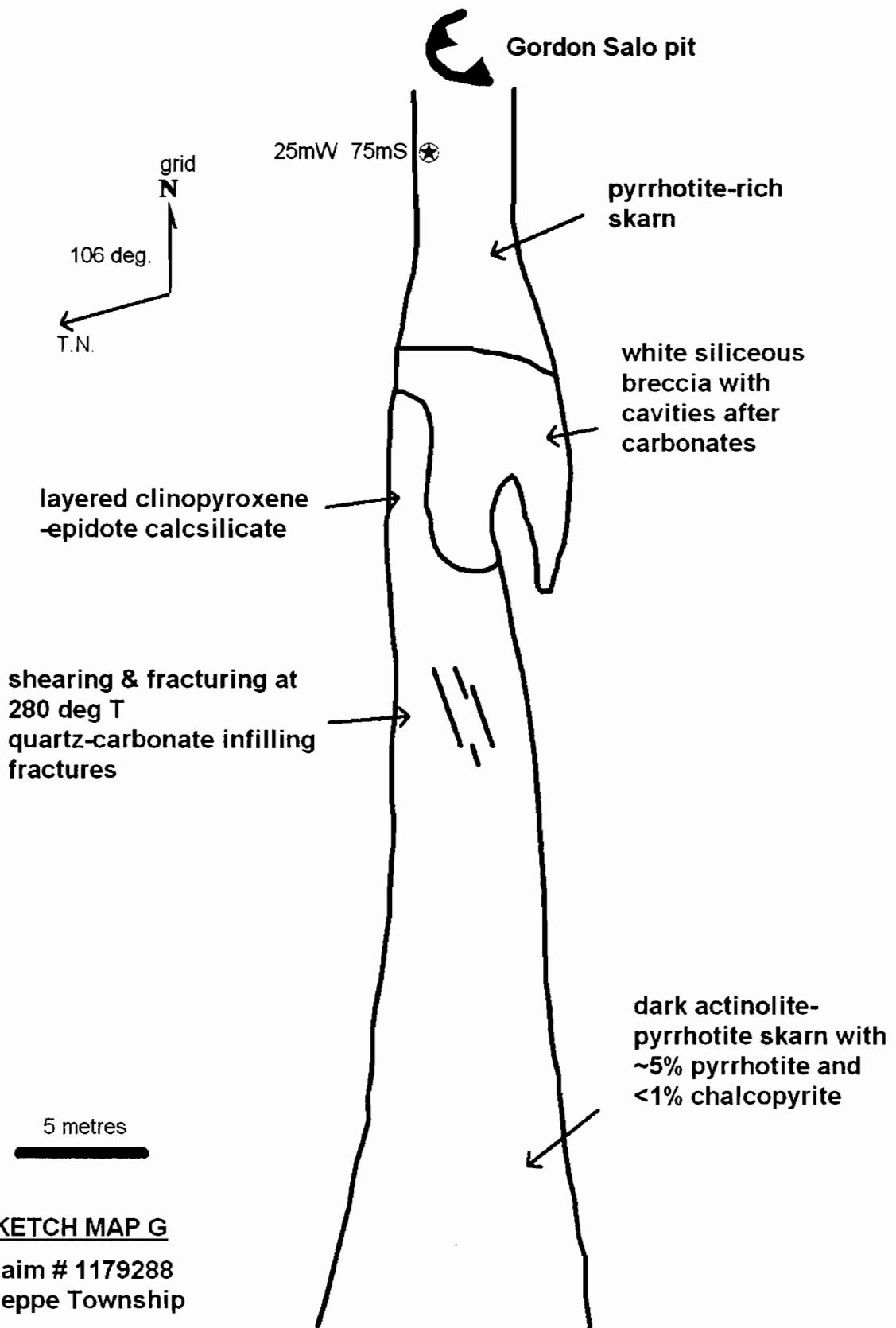
PNWC grid  
0mE 75mS



gabbro

5 metres

**SKETCH MAP F**  
Claim # 1179288  
Dieppe Township



**SKETCH MAP G**  
**Claim # 1179288**  
**Dieppe Township**



12m channel sample  
A3412 - 17

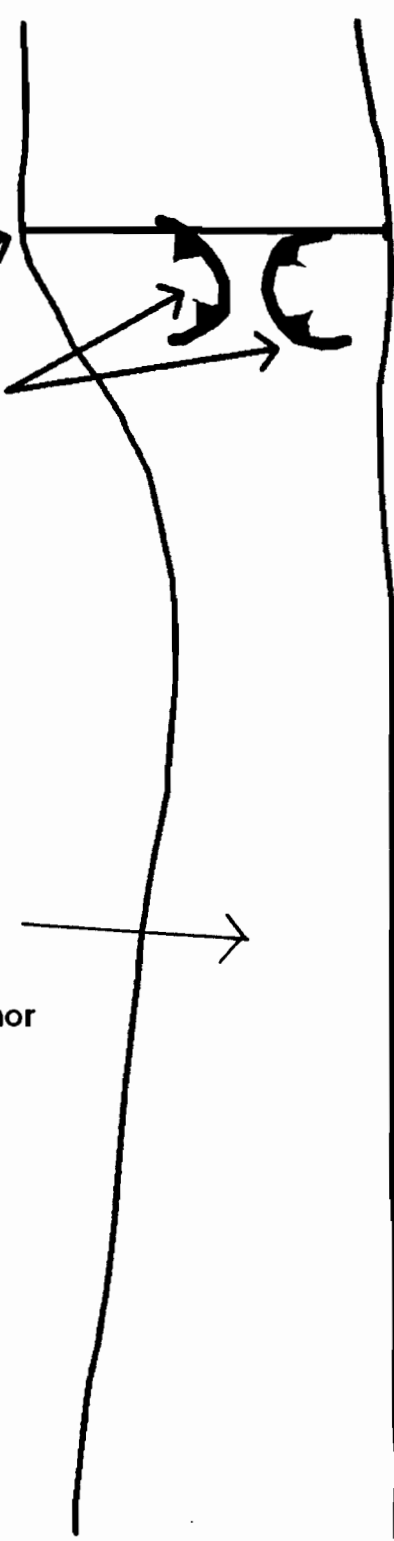
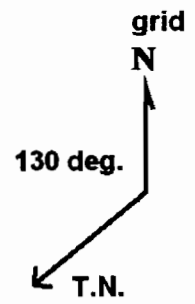
Gordon Salo  
pits

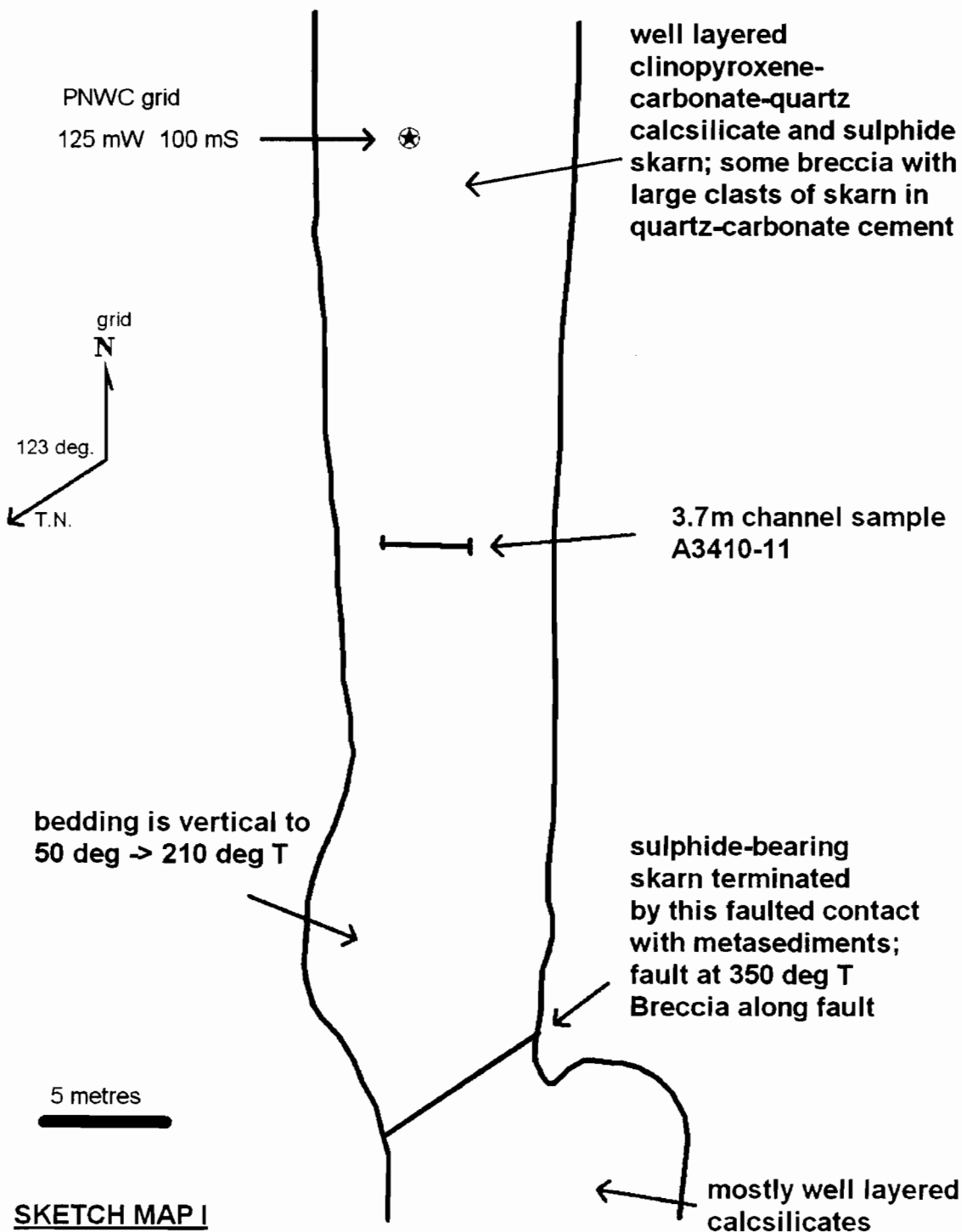
predominantly a  
clinopyroxene-  
actinolite-epidote  
calcsilicate with  
pyrrhotite and minor  
magnetite

5 metres

SKETCH MAP H

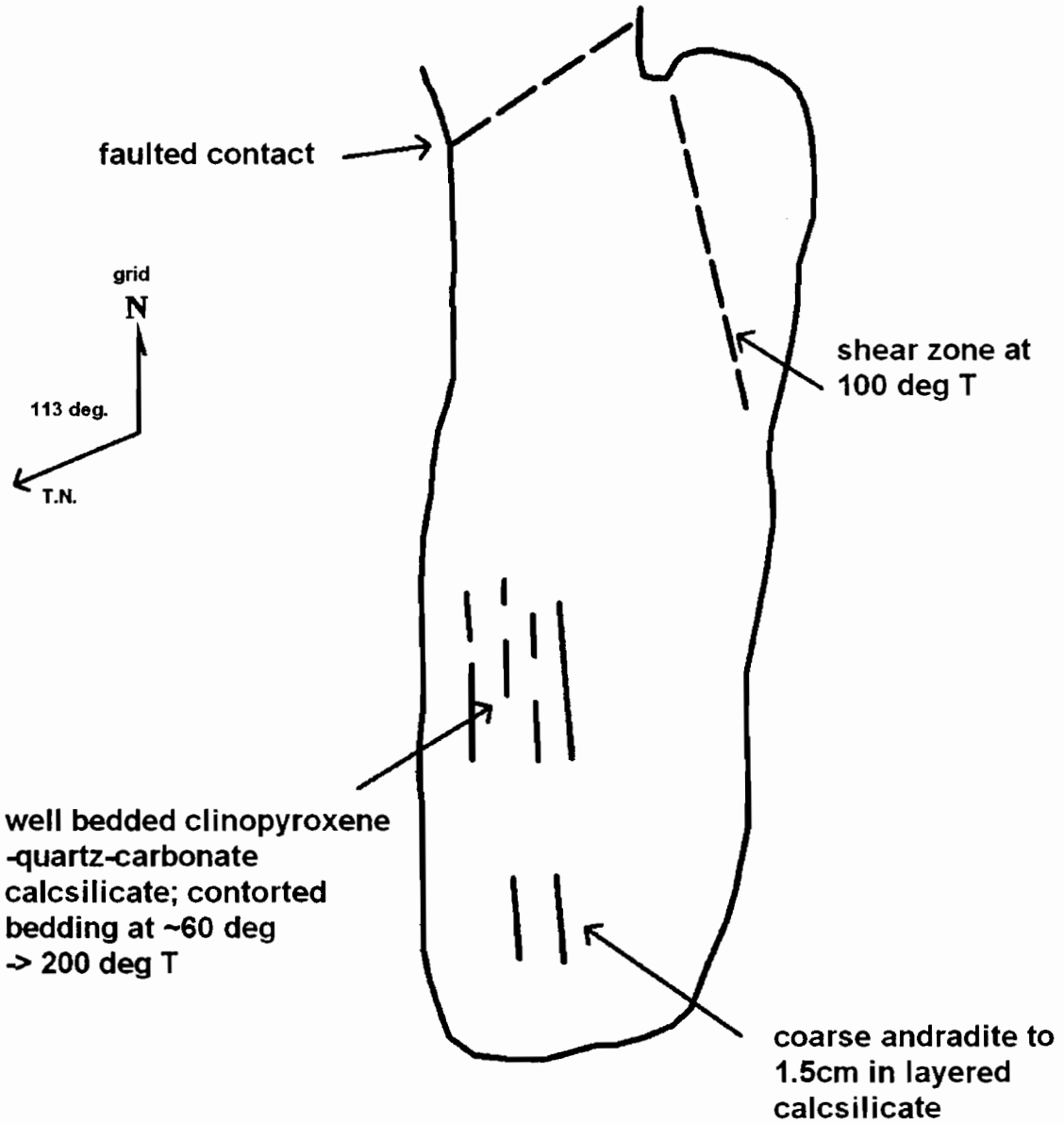
Claim # 1179288  
Dieppe Township





**SKETCH MAP I**

**Claim # 1179288  
Dieppe Township**

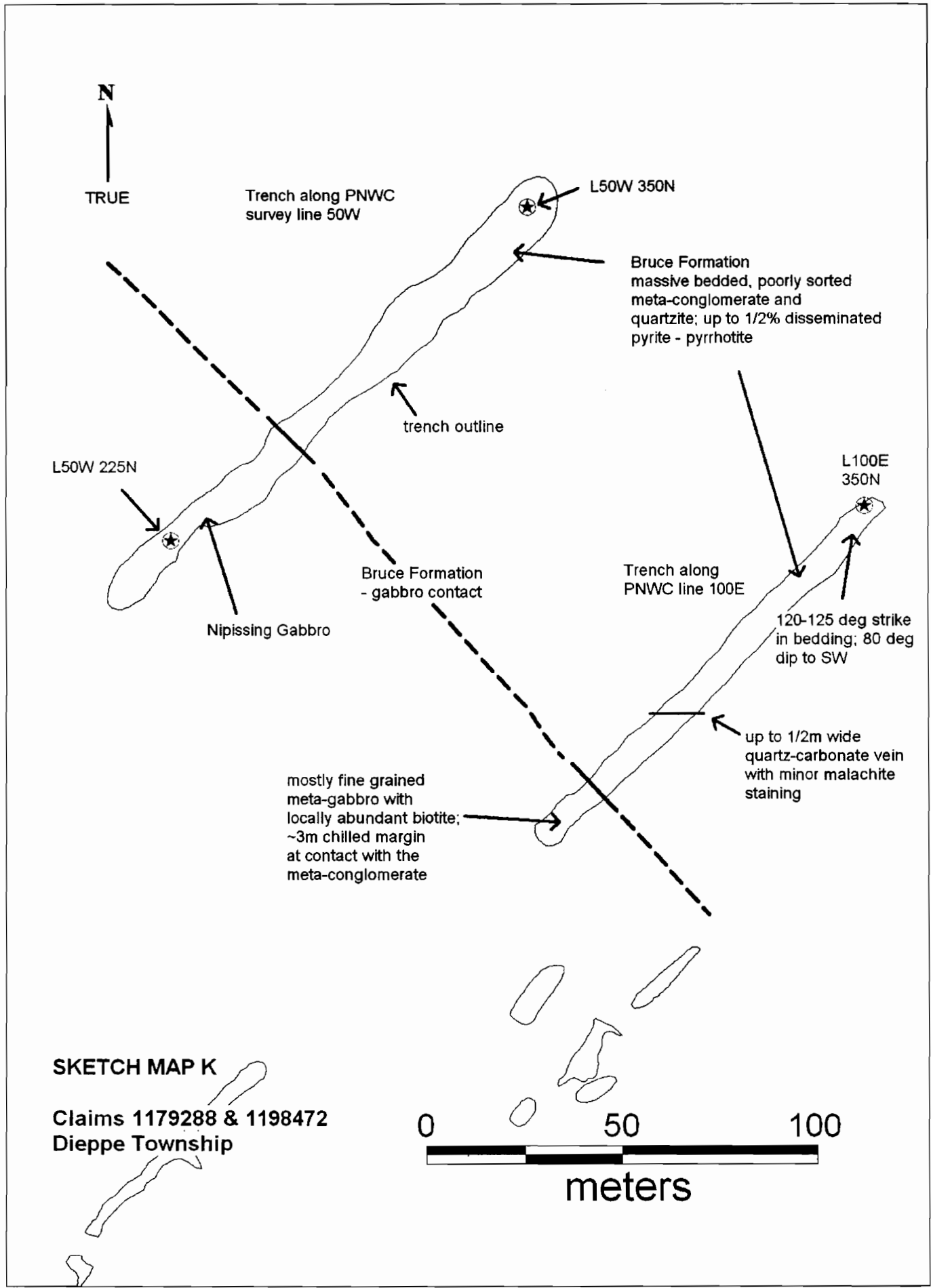


**SKETCH MAP J**

Claim # 1179288  
Dieppe Township

5 metres





**SKETCH MAP L**

**Claim No. 1198472,  
1197247 & 1179288  
Dieppe Township**



fuchsite-bearing grey-white  
calcsilicate

**Bruce  
Formation**

metaconglomerate  
minor disseminated  
and fracture-  
controlled pyrite  
& pyrrhotite

1198472

1197247

4WD track

gabbro

locally pegmatitic  
gabbro with disseminated  
pyrite-chalcopyrite-pyrrhotite

A3434-5

channel  
samples  
A3424-28

contact

gabbro



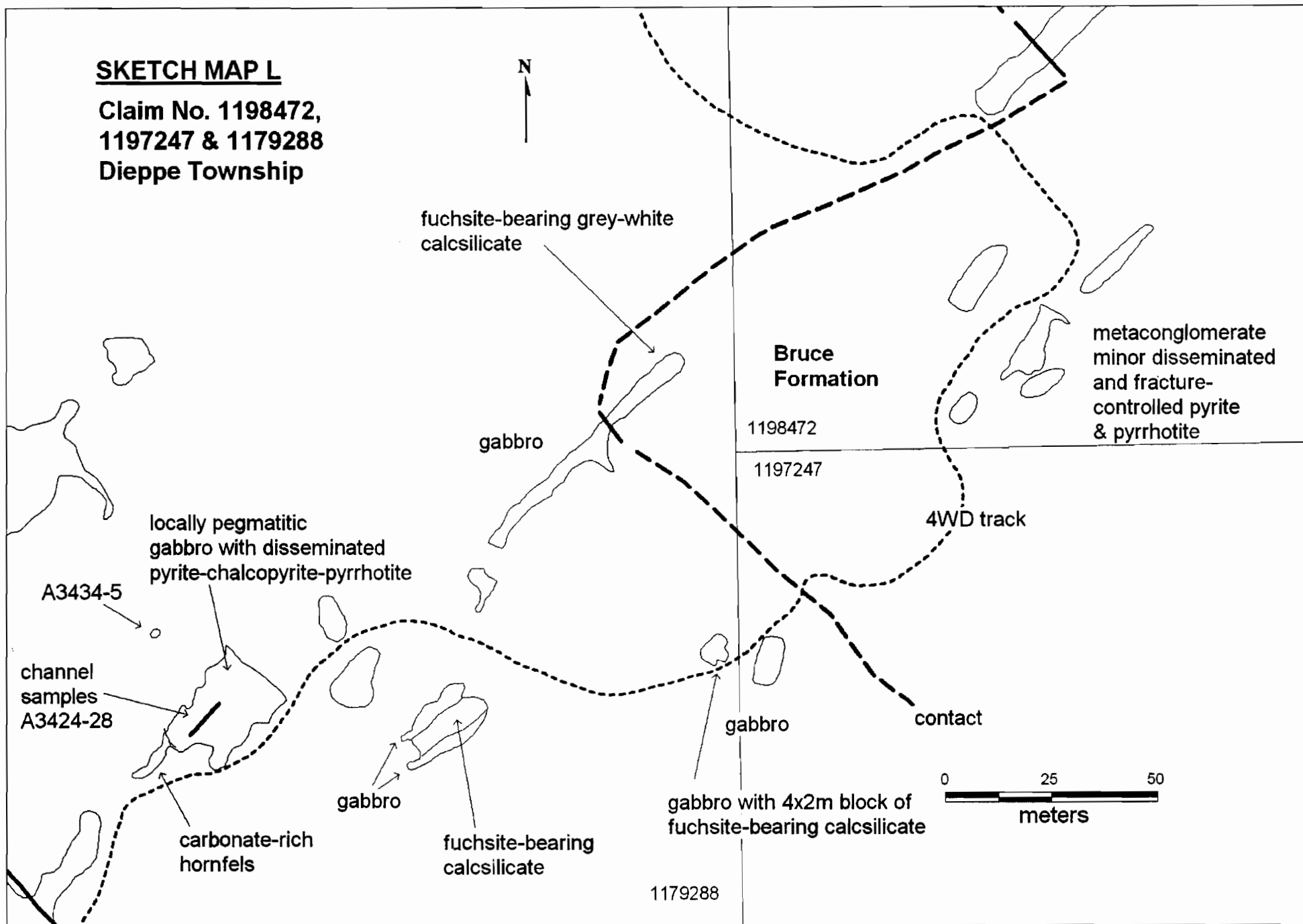
carbonate-rich  
hornfels

gabbro

fuchsite-bearing  
calcsilicate

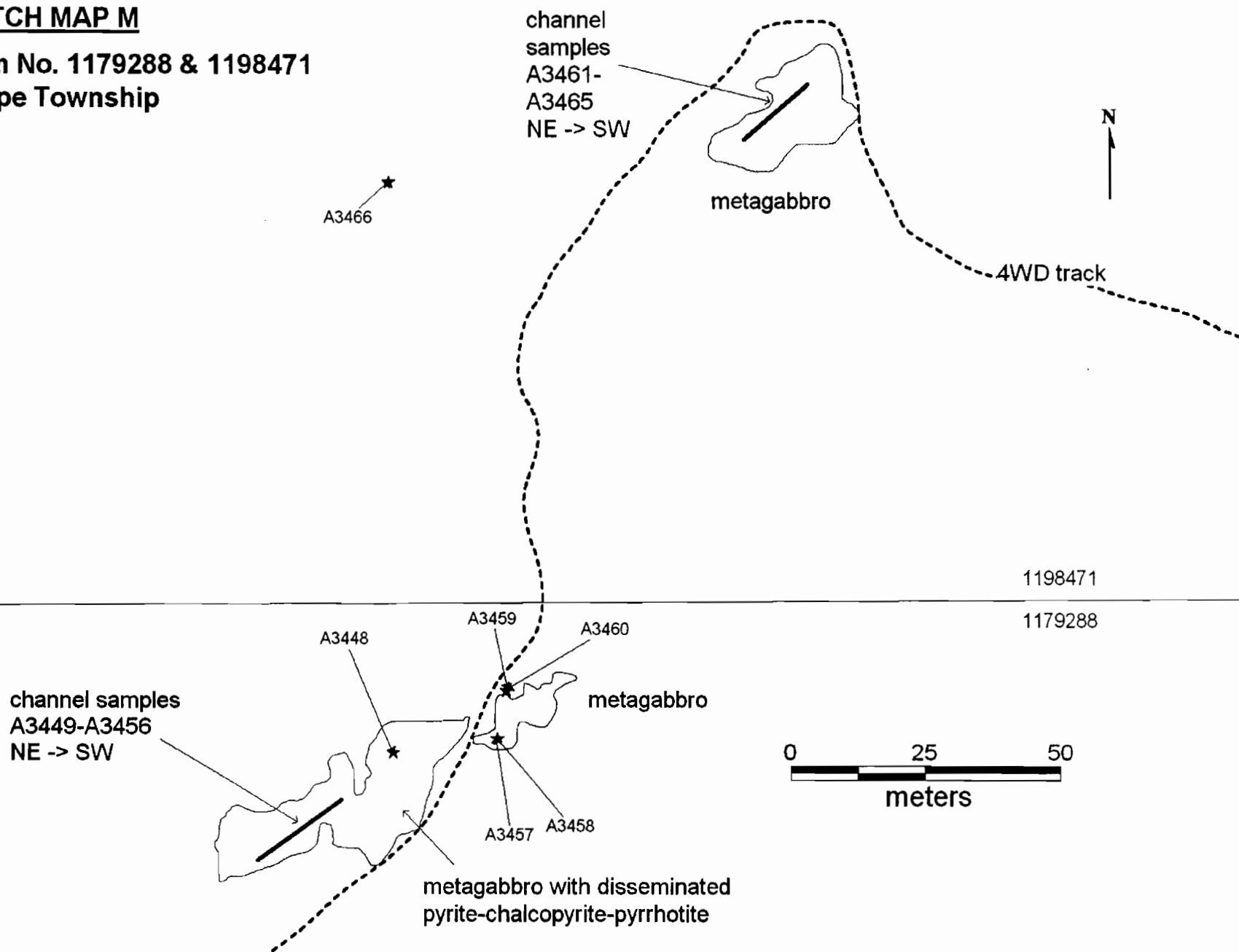
gabbro with 4x2m block of  
fuchsite-bearing calcsilicate

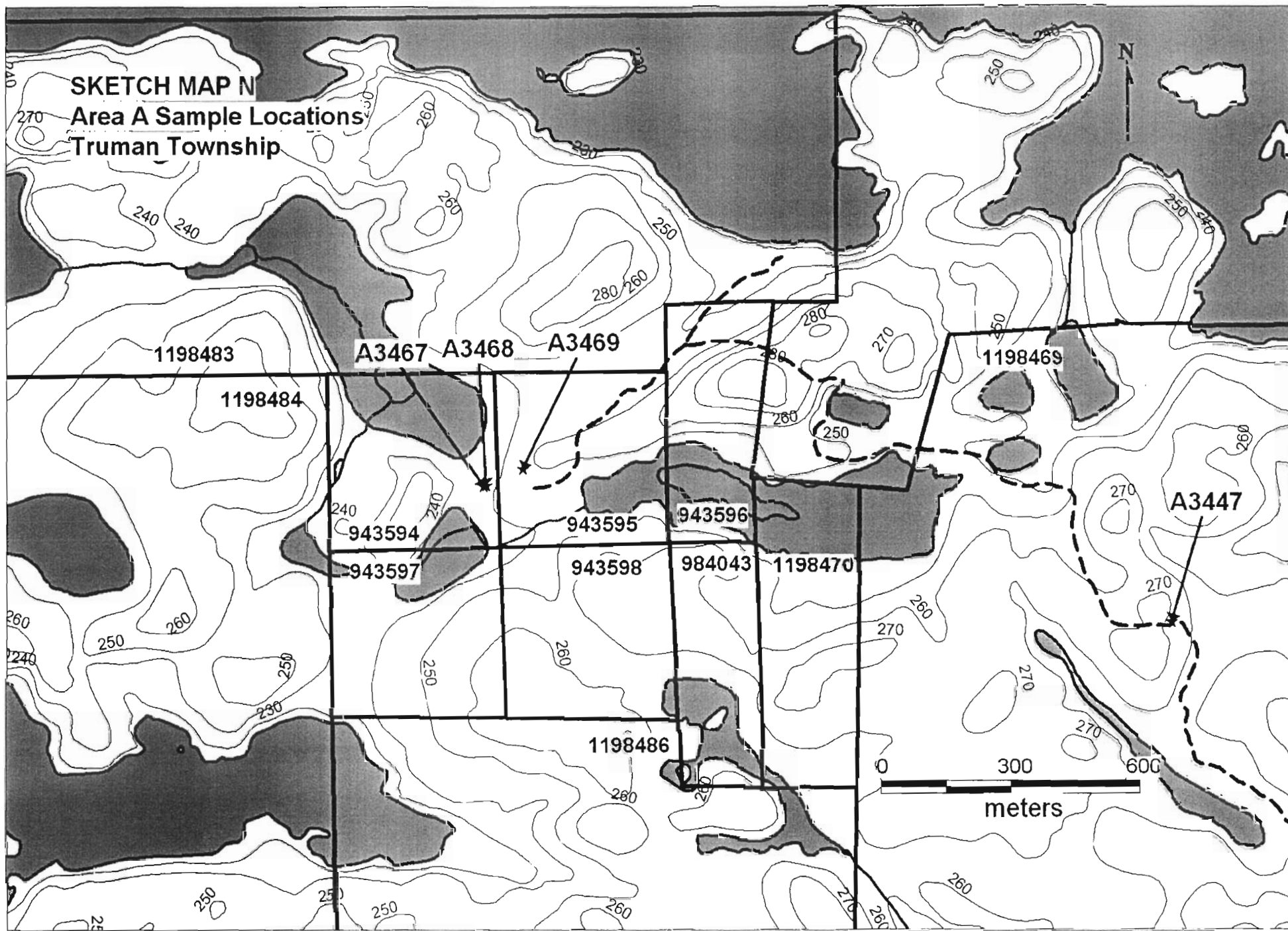
1179288



**SKETCH MAP M**

**Claim No. 1179288 & 1198471  
Dieppe Township**





SKETCH MAP NN

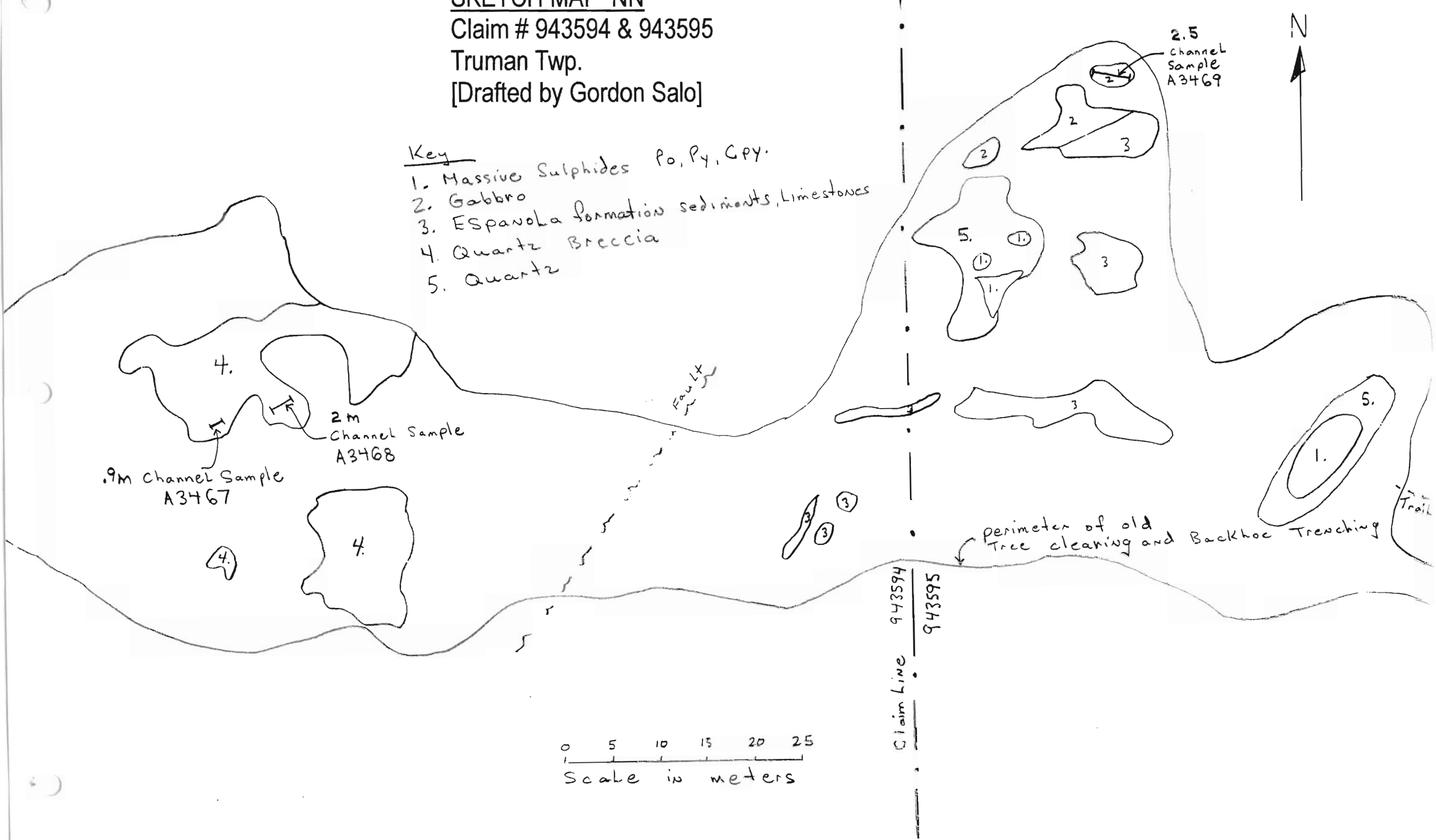
Claim # 943594 & 943595

Truman Twp.

[Drafted by Gordon Salo]

Key

- 1. Massive Sulphides Po, Py, Cpy.
- 2. Gabbro
- 3. Espanola formation sediments, Limestones
- 4. Quartz Breccia
- 5. Quartz

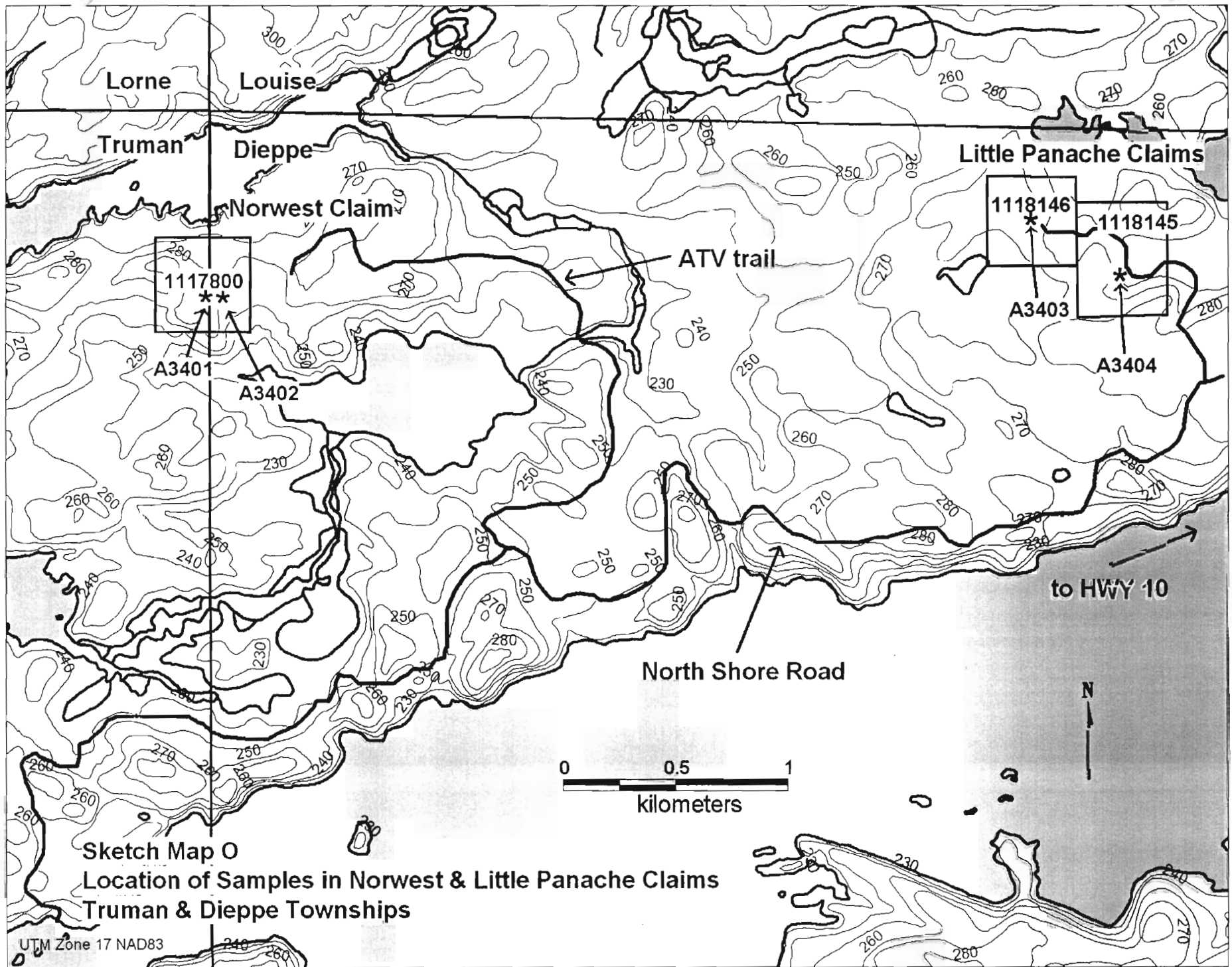


0 5 10 15 20 25  
Scale in meters

Claim Line 943594  
943595

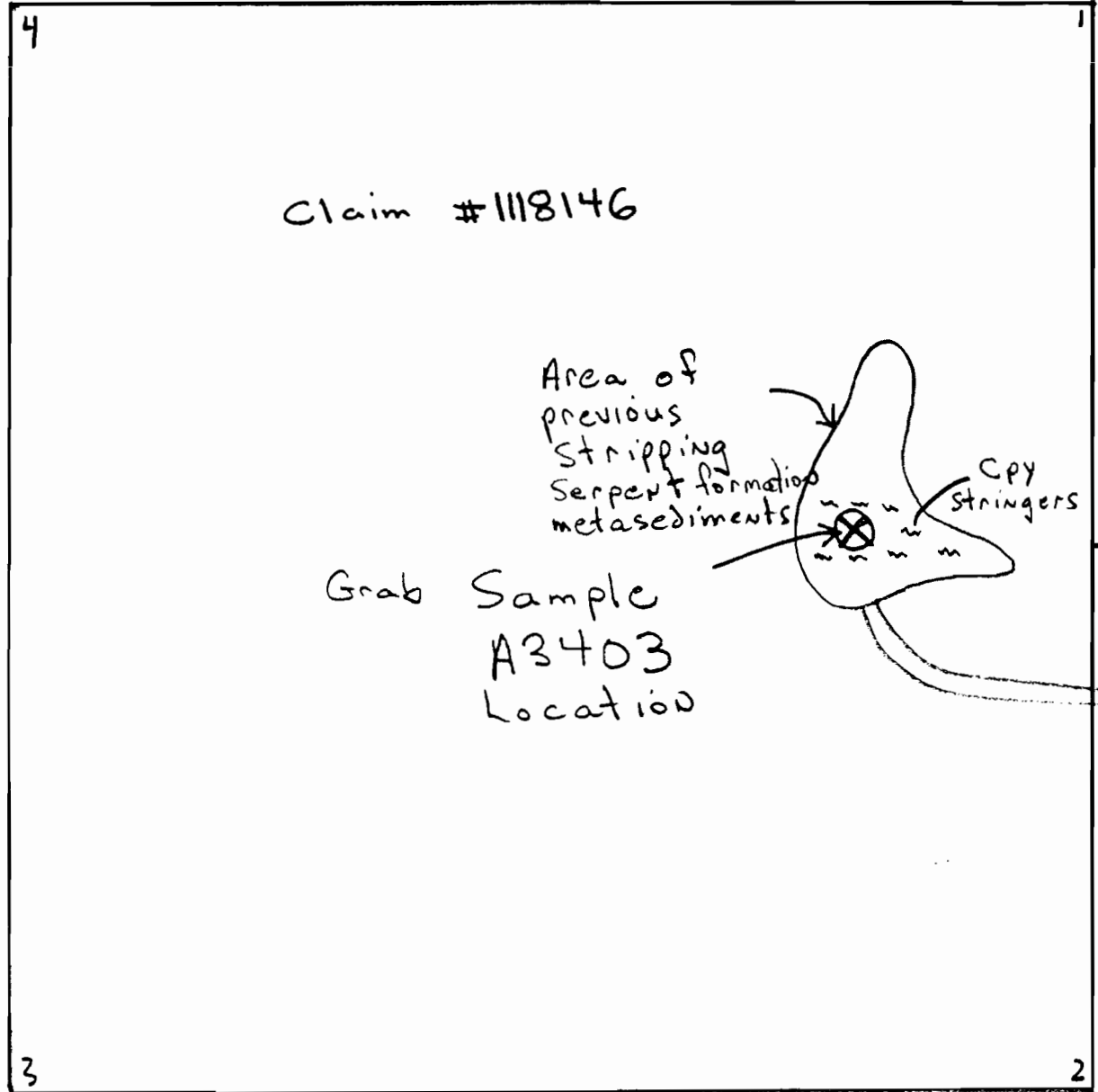




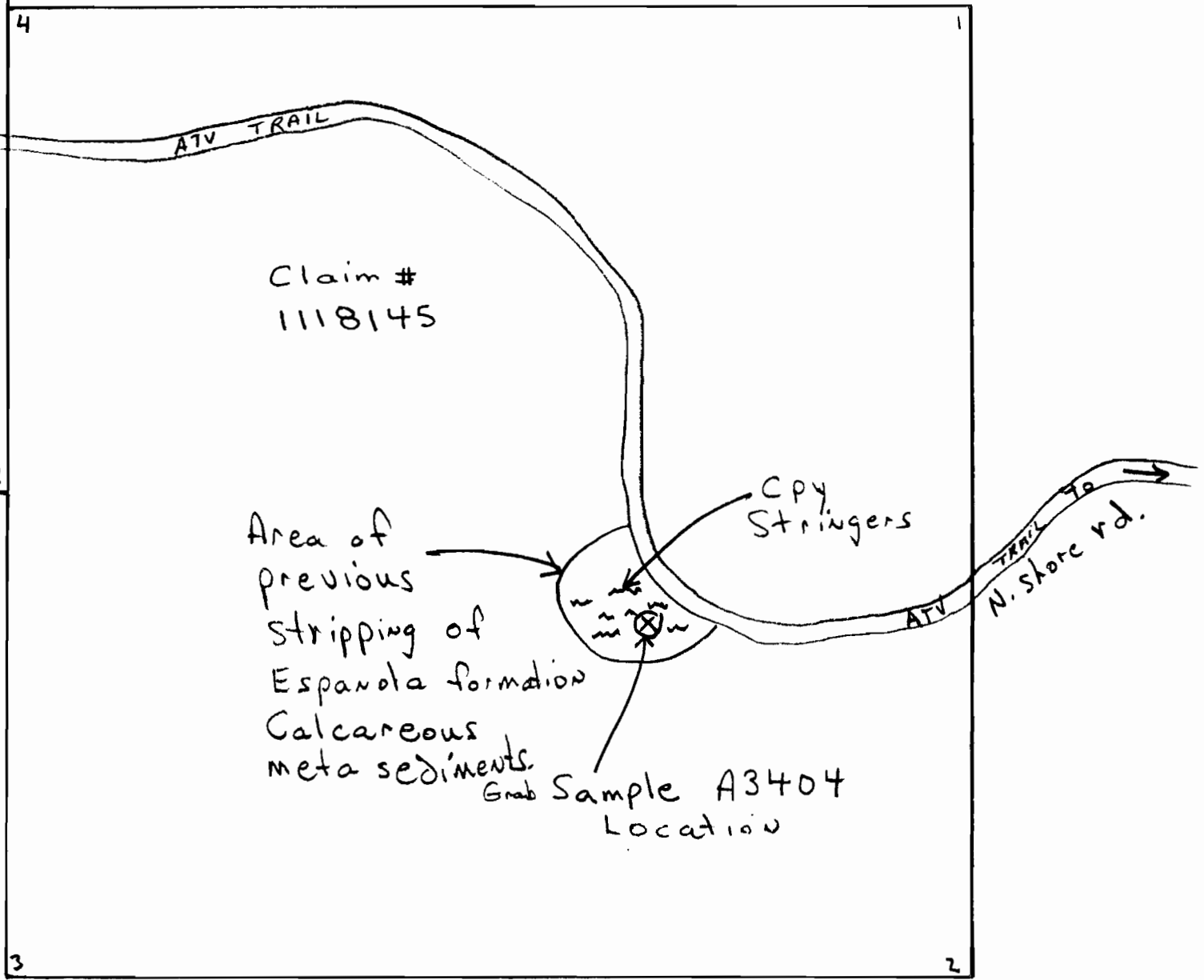


Sketch Map O  
 Location of Samples in Norwest & Little Panache Claims  
 Truman & Dieppe Townships

UTM Zone 17 NAD83



SKETCH MAP 00  
 Claim # 1118146 & 1118145  
 Dieppe Twp.  
 [Drafted by Gordon Salo]



0 25 50 75 100 150 200  
 Scale in Meters



A3407 ★

448679 mE 5122727 mN

A3405  
A3406

N



⊙ survey marker

▣ adit

□ shallow pit

⊙ white quartz

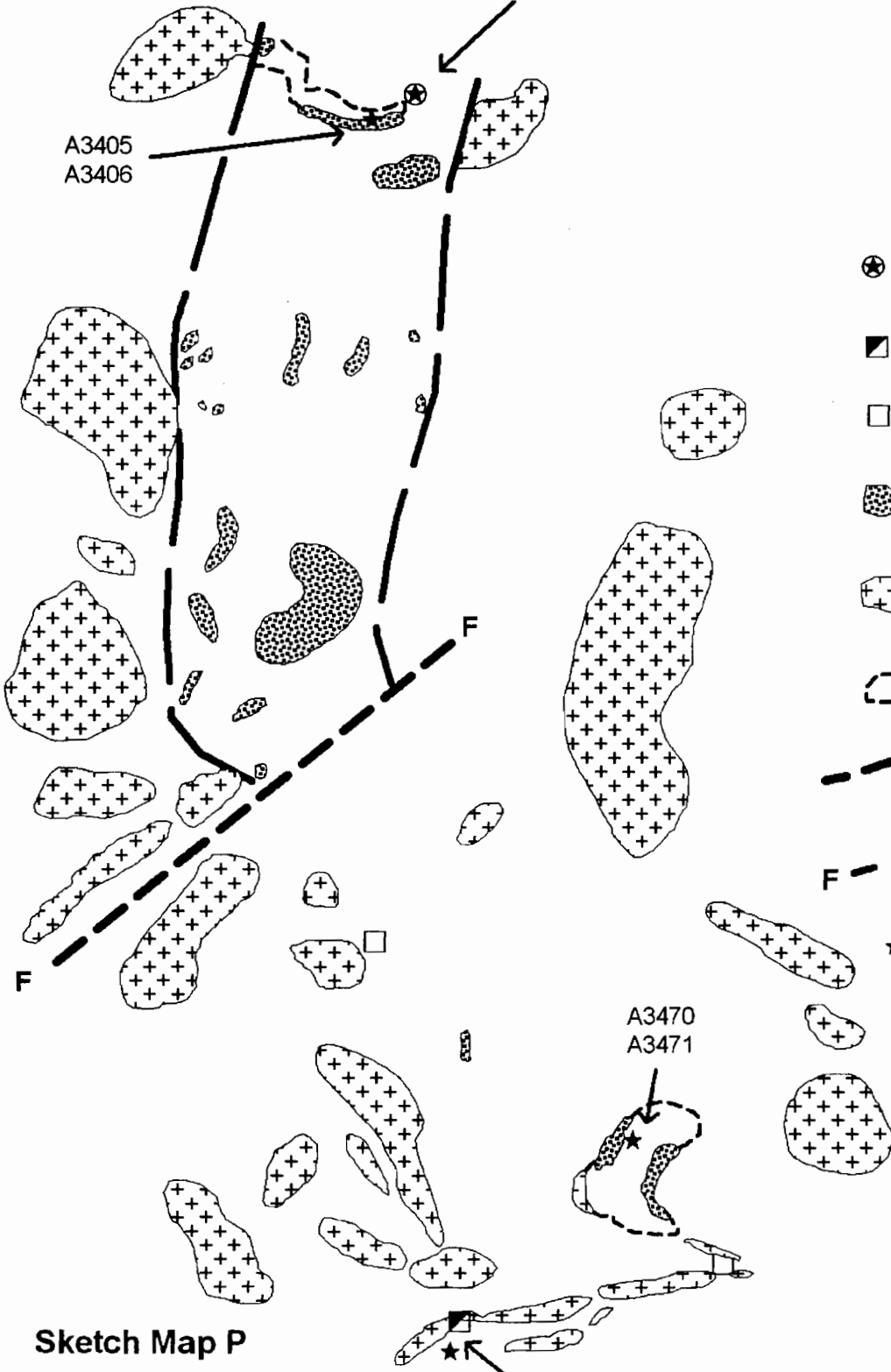
⊕ gabbro

- - - trench

- - - contact (approx.)

F - - - fault

★ rock sample



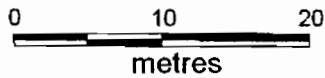
### Sketch Map P

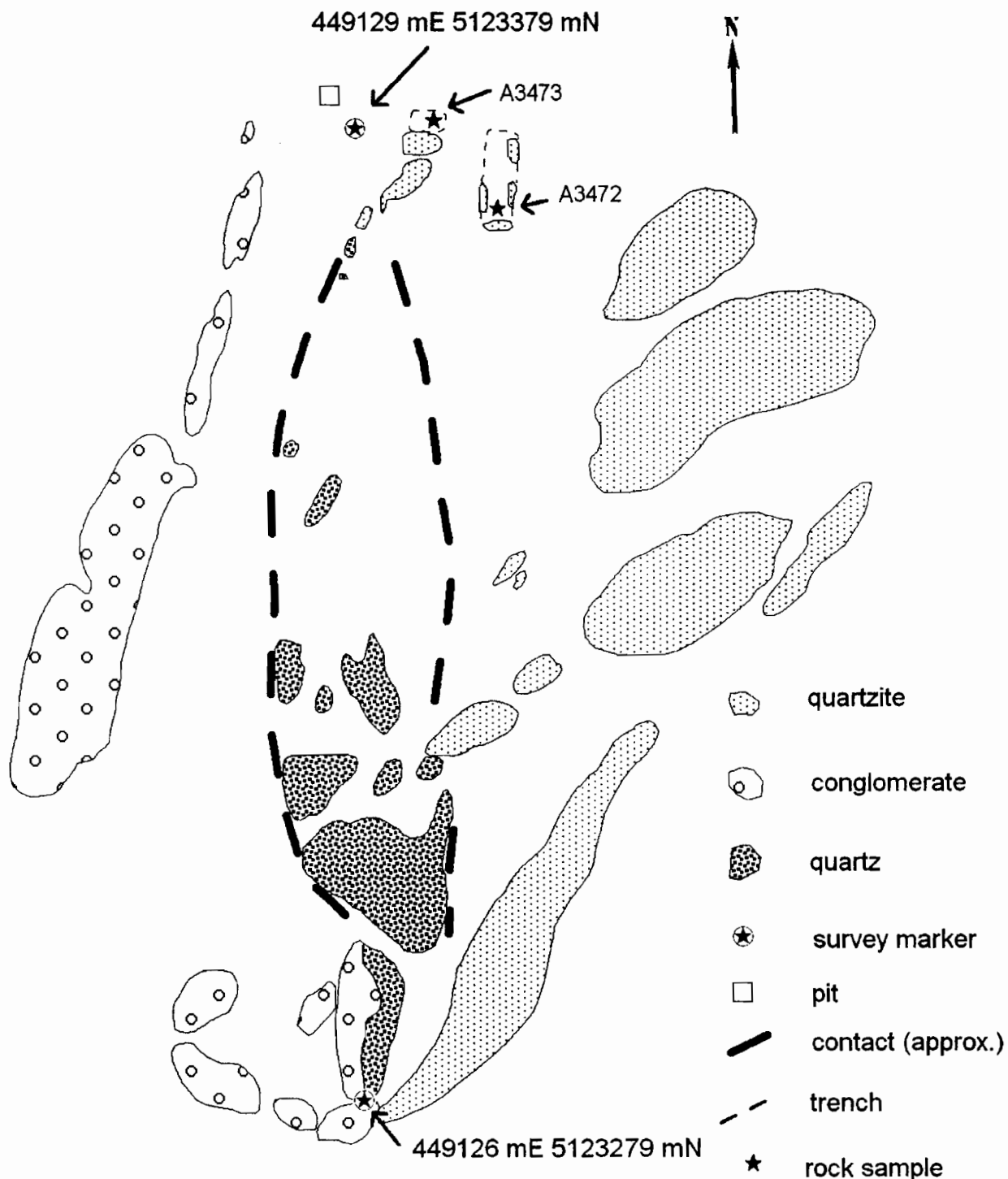
Brazil Lake South Showing  
Claim No. 1214966  
Foster Township  
Mapping by Frank Racicot

A3470  
A3471

448672 mE 5122627 mN

A3474

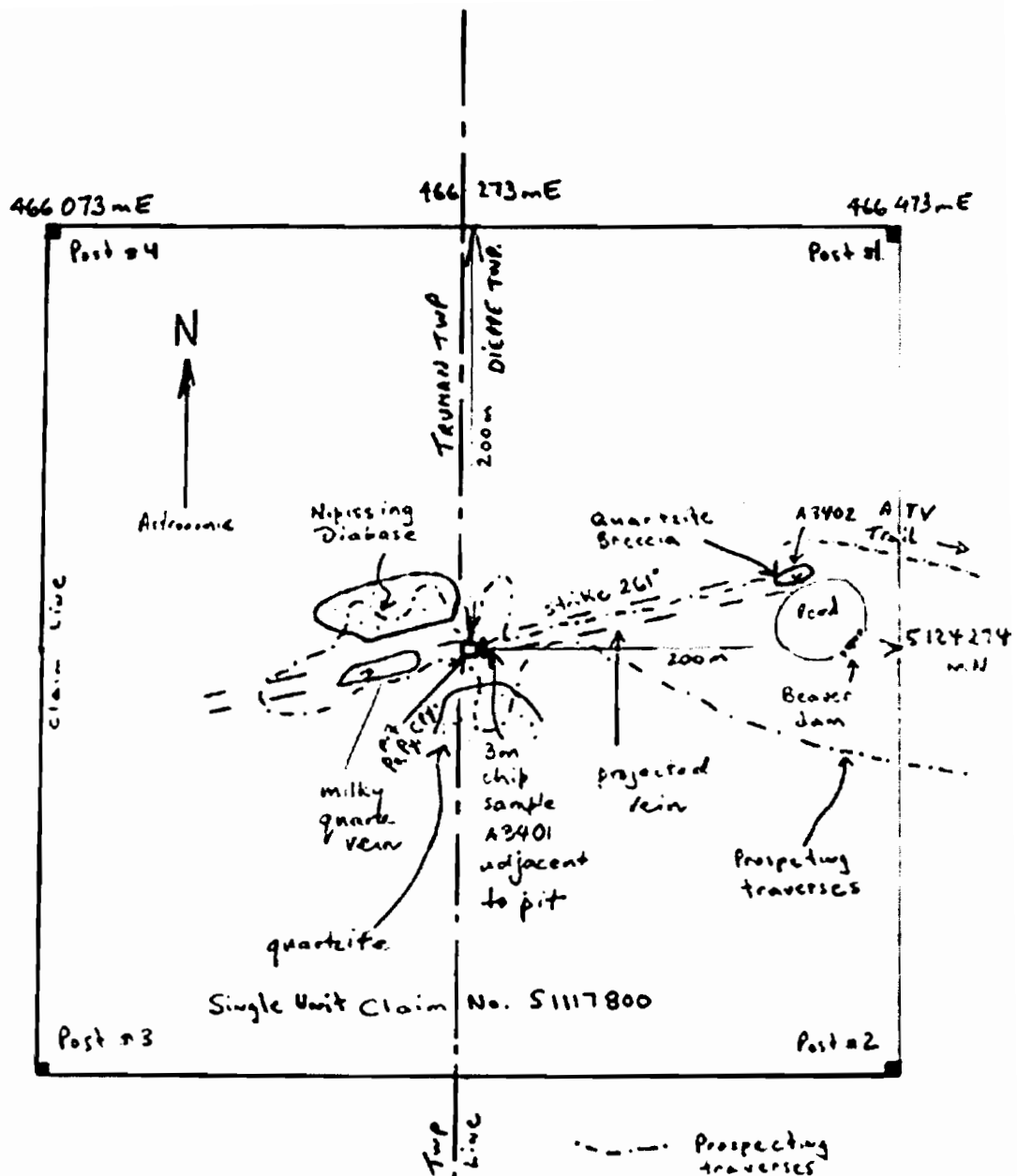




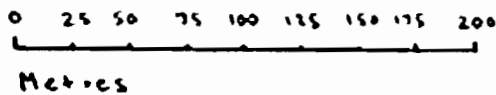
**Sketch Map Q**

**Brazil Lake Claims  
North Showing  
Claim # 1241716  
Foster Township**

**Mapping by Frank Racicot**



Scale



- . - . - . Prospecting traverses
- x x x x Beaver dam
- claim post
- Pit
- == Quartz Vein
- ⊙ outcrop
- | x Chip Sample  
Grab Sample

SKETCH MAP R

Northwest Claim Geology & Sample Locations

Claim No. 1117800

Truman & Dieppe Townships

[Drafted by Gordon Salo]

**APPENDIX B**

**ROCK SAMPLE DESCRIPTIONS AND LOCATIONS**

## Appendix B: Rock Sample Descriptions & Locations

UTM NAD 83 Zone 17

<u>Name</u>	<u>Location</u>	<u>Description</u>	<u>mE*</u>	<u>mN*</u>	<u>RL</u>
<b>A3401</b>	Norwest main pit area	Composite chip across 3m outcrop; quartz-pho-ccp -pyrite veined quartzite & phyllite; also breccia with quartz clasts in sulphide; ~6m wide subvertical vein/breccia strike 261° (true) locally massive sulphide	466273	5124274	276 m
<b>A3402</b>	Norwest: near beaver dam	Grab outcrop sample of breccia; tabular clasts of quartzite oriented parallel to E-W strike; dogtooth quartz lining clasts; no visible sulphides	466428	5124305	291 m
<b>A3403</b>	Little Panache	Grab outcrop samples across 5x5m area of ccp-bearing quartz stockwork veining in quartzite	469999	5124562	282 m
<b>A3404</b>	Little Panache	Grab outcrop sample of ccp - pyrite (5-10%) bearing silicified limestone pod about 1/2m in size. ccp is associated with quartz veins.	470390	5124317	277 m
<b>A3405</b>	Brazil Lake	Grab outcrop sample of quartz vein material with a ~5cm coarse bleb of pho - ccp (9% pho, 1% ccp)	448677	5122734	282 m
<b>A3406</b>	Brazil Lake	Quartz vein outcrop in wall of trench. 3 metre chip sample along wall of trench. ~1m interval carries disseminated blebs of pho +/- ccp	448677	5122734	282 m
<b>A3407</b>	Brazil Lake	Grab samples of quartz vein float adjacent to trench. 1-2% ccp on fractures	448669	5122747	292 m
<b>A3408</b>	Boundary P't	Grab samples of quartz-carbonate vein material with accessory pho-pyrite from a rock pile adjacent to a trench. Breccia texture with clasts of quartzite and quartz. ~1-4% pho + pyrite.	467133	5118260	267 m
<b>A3409</b>	Boundary P't	Grab samples of float adjacent to narrow trench. Quartz vein material with rare blebs of ccp to 1/2cm.	467079	5118274	227 m
<b>A3410</b>	Boundary P't	1.9m channel sample within cpx-epidote skarn; ~15% pho, 1-4% ccp, ~5% pyrite. Sulphides disseminated and fracture-controlled	466389	5118730	254 m
<b>A3411</b>	Boundary P't	1.8m channel sample to south of A3410; similar mineralogy	466389	5118730	254 m
<b>A3412</b>	Boundary P't	2.2m channel sample in finely banded epidote-rich skarn; layers defined by dark cpx; ~5% pho, ~2% pyrite. First 1m is sericitised, sheared gabbro.	466446	5118704	268 m
<b>A3413</b>	Boundary P't	2m channel sample to S of A3412. Epidote-cpx skarn with ~5% pho, 1-2% ccp	466446	5118704	268 m
<b>A3414</b>	Boundary P't	2m channel sample to S of A3413. Epidote-cpx skarn;	466446	5118704	268 m

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		~8-10% pho; possible cuprite coatings on fractures			
<b>A3415</b>	Boundary P't	2m channel sample to S of A3414. Dark coloured cpx-epidote skarn; 15% disseminated pho; mainly fracture-controlled ccp; cpx locally altered to actinolite-phlogopite	466446	5118704	268 m
<b>A3416</b>	Boundary P't	1.9m channel sample to S of A3415. Also a skarn but with up to ~25% disseminated and patchy magnetite; similar sulphide content to A3415	466446	5118704	268 m
<b>A3417</b>	Boundary P't	1.9m channel sample to S of A3416. Includes a 1/2m layer of well bedded clinopyrox-epidote-carbonate calcsilicate; magnetite is more abundant adjacent to this unit. The clinopyrox-magn-carbonate skarn has ~1-4% ccp, ~3-5% pyrite, pho to ~10% locally	466446	5118704	268 m
<b>A3418</b>	Boundary P't	1.85m channel sample adjacent to GS's pit; massive epidote-cpx skarn; <1% ccp+pyrite. Non magnetic	466509	5118657	272 m
<b>A3419</b>	Boundary P't	2.1m channel sample to S of A3418; central 60cm zone with ~50% pho + 2-5% ccp. Outside the above ~5-10% pho & 1-3% ccp; some ccp is cocncentrated in layers within the banded skarn	466509	5118657	272 m
<b>A3420</b>	Boundary P't	2m channel sample in "roadside" skarn; coarsely banded clinop-quartz-epidote skarn; certain layers enriched in cpx. ~1% disseminated but mainly fracture-controlled ccp-pyrite	466564	5118618	257 m
<b>A3421</b>	Boundary P't	2m channel sample to S of A3420; dark cpx-rich skarn with phlogopite-actinolite alteration locally. ~2-3% ccp plus pyrite; up to ~30% pyrite where ?shear-controlled sericite is present; pervasive oxidation adjacent to shear	466562	5118617	257 m
<b>A3422</b>	Boundary P't	2m channel sample to S of A3421. ~1% ccp on fractures. A dark cpx skarn	466559	5118616	257 m
<b>A3423</b>	Boundary P't	2m channel sample (final) to S of A3422. cpx-phlogopite skarn with <1% fracture-controlled ccp; disseminated pyrite up to 5% where retrograde alteration is strongest, otherwise ~1% as a fracture coating	466556	5118615	257 m
<b>A3424</b>	Boundary P't	2m channel in major gabbro outcrop; ~1% pho, ~1% pyrite, <1% ccp; rare disseminated clots to 1/2cm of pho-ccp	466617	5118657	263 m
<b>A3425</b>	Boundary P't	2m channel sample to S of A3424; all medium grained gabbro; ccp and pho both disseminated and fracture-controlled. Overall ~2% pho & ~1% ccp	466615	5118655	263 m



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<b>A3426</b>	Boundary P't	2m channel sample to S of A3425; disseminated clots to ~3cm of ccp-pho; ~1% chalcopyrite & ~5% pho as disseminated grains and fracture coatings. Med to coarse with some light coloured pegmatitic segregations	466613	5118654	263 m
<b>A3427</b>	Boundary P't	2m channel sample to S of A3426; medium grained gabbro. Disseminated clots to ~3cm of ccp-pho; ~3-5% pho and 1% ccp	466612	5118652	263 m
<b>A3428</b>	Boundary P't	2.2m channel sample to S of A3427; blebs to 5cm of pho-ccp in ~5:1 ratio. Most of the sulphides are disseminated. Blebs to 1/2cm of just ccp. Most of the unit is clearly a metagabbro with amphibole-biotite as main mafic phases.	466611	5118650	263 m
<b>A3429</b>	Boundary P't	2.3m single channel sample in hornfels at N end of major "fenite" outcrop area; ~2% disseminated pho & ~1/2% ccp. Rock is a ?cordierite-biotite-carbonate-quartz hornfels	466555	5118556	257 m
<b>A3430</b>	Boundary P't	2.6m single channel sample in hornfels at S end of same outcrop as A3429. Well banded hornfels with layers of ?cpx-quartz (~1/2% ccp & 1% pho) and biotite-cordierite (no sulphides)	466527	5118526	260 m
<b>A3431</b>	Boundary P't	1.8m channel sample within rutile-fuchsite breccia. Minor disseminated (<1% cobaltite) euhedra; ~1% erythrite and ~1% fuchsite. Pink-brown rutile concentrated in matrix around angular clasts of ?silicified/hornfelsed carbonate	466519	5118551	276 m
<b>A3432</b>	Boundary P't	2m channel sample to E of A3431. Also mainly breccia as A3431 but less brecciated towards end of interval where rock is bleached in appearance; contains a patch of coarse carbonate ~10cm in size. <1% cobaltite, 1% fuchsite, <1% erythrite	466520	5118549	276 m
<b>A3433</b>	Boundary P't	2m channel sample (final) to E of A3432. Pink-brown strongly silicified sedimentary carbonate cut by minor quartz veining	466521	5118547	276 m
<b>A3434</b>	Boundary P't	1.4m channel sample in coarse metagabbro. 3x3m sized outcrop. 2% pho as clots to 2cm & ~1/2% ccp as disseminated grains to 2mm.	466602	5118674	258 m
<b>A3435</b>	Boundary P't	2m channel sample to N of A3434. Coarse metagabbro with ~1% disseminated pho & <1% ccp. No sulphide clots seen.	466602	5118674	258 m
<b>A3436</b>	Boundary P't	2m channel sample in massive sulphide zone; first 1m is in hornfelsed carbonate with ~2% pyrite and <1% ccp on fractures. Remaining interval is a quartz vein with clasts sheared chloritic ?hornfels; carries ~2% pyrite as cubes to 1cm.	466676	5118408	271 m
<b>A3437</b>	Boundary P't	2m channel sample to N of A3436 within sheared quartz vein	466678	5118410	271 m

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		and chloritic fine grained hornfels; locally intense oxidation. Overall ~10% pyrite in the interval; locally massive			
<b>A3438</b>	Boundary P't	2m channel sample to N of A3437. Quartz-pyrite breccia with pyrite surrounding clasts of quartz. A 10cm interval of quartz vein carries ~10% ccp. Interval has ~15% pyrite & 1% ccp overall.	466681	5118411	271 m
<b>A3439</b>	Boundary P't	2m channel sample to N of A3438 in quartz-limonite gossan. 80% of interval is a cavernous limonite with boxworks after sulphides. Some pyrite and ccp associated with a quartz vein; ~2% ccp and 5% pyrite in the narrow vein. Final sample along this channel.	466682	5118412	271 m
<b>A3440</b>	Boundary P't	2nd channel through massive sulphide zone; to E of previous. 2m channel sample in quartz vein with minor wallrock quartz-cpx skarn. <1% disseminated ccp, 1% pyrite & 5% pho.	466697	5118408	258 m
<b>A3441</b>	Boundary P't	2m channel sample to S of A3440. Initial 1m is skarn with other half being milky quartz vein with <1% sulphides. Some boxworks indicate past presence of sulphides.	466696	5118407	258 m
<b>A3442</b>	Boundary P't	2m channel sample to S of A3441. Milky quartz vein with rare blebs of ccp to 1cm; <1% ccp overall.	466694	5118406	258 m
<b>A3443</b>	Boundary P't	2m channel sample to S of A3442. Milky quartz vein with rare 1/2cm euhedra of pyrite within the quartz. Minor stringers of limonite near S end of interval.	466693	5118404	258 m
<b>A3444</b>	Boundary P't	2m channel sample to S of A3443. Milky quartz vein with 10cm of dark metasediment at the S end. Coarse pyrite cubes to 1cm; overall <1% pyrite. Trace ccp and malachite.	466691	5118403	258 m
<b>A3445</b>	Boundary P't	2m channel sample to S of A3444. Silicified quartzite for 1/2m; then 1m of quartz-carbonate breccia with 10% pyrite & limonite after sulphides; followed by 1/2m of quartz-carbonate vein at S end. Overall interval has ~5% pyrite.	466689	5118401	258 m
<b>A3446</b>	Boundary P't	2m channel sample to S of A3445 (final). Quartz vein with patchy ccp (~1-2%) and pyrite (5%); followed by 40cm pyrite breccia with ~40% pyrite; and 30cm of clay-pyrite at the S end of the interval. Overall ~10-20% pyrite and 1/2% ccp.	466688	5118400	258 m
<b>A3447</b>	Boundary P't	Outcrop grab sample by side of Panache access road. Pink coloured silicified sediment cut by quartz veinlets. ~2-4% fuchsite as clots to 2cm.	465427	5119430	257 m
<b>A3448</b>	Boundary P't	Outcrop grab sample of coarse grained "metagabbro" with ~5-10% free quartz; ~5% disseminated and fracture-controlled pho. Rock is moderately magnetic	466399	5118874	273 m

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<b>A3449</b>	Boundary P't	2m channel sample in biotite-rich metagabbro. Sulphides not observed. Non magnetic.	466389	5118865	261 m
<b>A3450</b>	Boundary P't	2m channel sample to S of A3449 within metagabbro; <1% disseminated ccp. Some coarse pegmatitic segregations in the unit. Non magnetic & generally coarse grained.	466388	5118864	259 m
<b>A3451</b>	Boundary P't	2m channel sample to S of A3450; as above.	466385	5118863	259 m
<b>A3452</b>	Boundary P't	2m channel sample to S of A3451; as above.	466383	5118862	259 m
<b>A3453</b>	Boundary P't	2m channel sample to S of A3452; metagabbro is cut by a zone of shearing along whole interval @ 260 <sup>0</sup> (true). Unmineralised.	466380	5118860	259 m
<b>A3454</b>	Boundary P't	2m channel sample to S of A3453; metagabbro with up to ~5% ccp locally as disseminated grains and fracture coatings. Overall <1% ccp.	466378	5118858	259 m
<b>A3455</b>	Boundary P't	2m channel sample to S of A3454; as above with up to 2% ccp locally but still <1% ccp overall.	466376	5118856	259 m
<b>A3456</b>	Boundary P't	2m channel sample to S of A3455 (final); as above.	466375	5118854	258 m
<b>A3457</b>	Boundary P't	2.2m channel sample in metagabbro with <1% ccp	466418	5118877	275 m
<b>A3458</b>	Boundary P't	2m channel sample to N of A3457 (final); unmineralised-looking metagabbro	466418	5118877	275 m
<b>A3459</b>	Boundary P't	1.8m channel sample in metagabbro; 1-2% pho and <1% ccp	466420	5118886	266 m
<b>A3460</b>	Boundary P't	2m channel sample to N of A3459 (final); metagabbro with ~3% disseminated pho to 1cm bleb size; rare ccp blebs to 1cm; overall content of ccp is <1%	466420	5118886	266 m
<b>A3461</b>	Boundary P't	2m channel sample in medium grained metagabbro; negligible sulphides present	466475	5118996	270 m
<b>A3462</b>	Boundary P't	2m channel sample to S of A3461; as above	466472	5118994	270 m
<b>A3463</b>	Boundary P't	2m channel sample to S of A3462; as above	466469	5118991	270 m
<b>A3464</b>	Boundary P't	2m channel sample to S of A3463; as above	466466	5118989	270 m
<b>A3465</b>	Boundary P't	2.8m channel sample (final) to S of A3464 with an internal gap of 0.6m where there is no sample. As above	466464	5118987	270 m
<b>A3466</b>	Boundary P't	Subcrop grab sample of metagabbro with ~4% disseminated ccp and 2% pho; sulphide blebs up to 1cm.	466398	5118979	202 m

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A3467	Area A	0.9m channel sample in small outcrop of quartz breccia; clasts of silicified quartzite within coarse crystalline quartz matrix; <1% disseminated pyrite. Vague 240 <sup>0</sup> (true) alignment of clasts. Clasts to 20cm; at least 2 generations of quartz infill.	463831	5119751	246 m
A3468	Area A	2m channel sample in a small outcrop of quartz breccia; mineralogy as in A3467	463837	5119753	252 m
A3469	Area A	2.5m channel sample in small outcrop area of gabbro near main pit area in Area A. Weakly to moderately magnetic due to ~1% disseminated pho (<1mm grainsize)	463923	5119791	243 m
A3470	Brazil Lake	Grab outcrop sample from trench; pho from a ~2m wide pod or vein. Strongly magnetic, essentially massive pho.	448685	5122646	260 m
A3471	Brazil Lake	Subcrop grab sample from same site as A3470. Quartz vein with ~5% ccp on fractures & <1% native copper, also on fractures; ~10% pho.	448685	5122646	260 m
A3472	Brazil Lake	Grab outcrop sample from trench; quartzite breccia with sulphide cement; ~25% pho and ~2% ccp. Strongly magnetic. Clasts of angular, shattered quartzite.	449144	5123368	246 m
A3473	Brazil Lake	Grab outcrop sample from a 2 x 2 x 1m deep pit in silicified quartzite; carries ~20% disseminated pyrite as cubes to 1/2cm	449136	5123380	251 m
A3474	Brazil Lake	Grab sample of stockpile material near adit at Brazil Lake. Carbonate-quartz-tremolite-talc-cobaltite calcsilicate; ~1-5% cobaltite with trace ccp associated with the quartz. Cobaltite tends to be associated with the carbonate. ~2% pho.	448672	5122627	246 m
A3475	Sawmill Bay	Frank Racicot sample #184 Gabbro with 1/2% (pho 95: ccp 5) disseminated sulphides in medium grained gabbro	472481	5119630	250 m
A3476	Sawmill Bay	Frank Racicot sample #185 1/4-1/2% disseminated ccp and small pho blebs in rusty, hematitic stained medium grained gabbro	472487	5119640	250 m
A3477	Sawmill Bay	Frank Racicot sample #186 Medium grained gabbro with trace disseminated <1% pho	472500	5119646	250 m
A3478	Sawmill Bay	Frank Racicot sample #187 Medium grained gabbro with 1/4% disseminated ccp and trace blebs of pho	472502	5119646	250 m
A3479	Sawmill Bay	Frank Racicot sample #188 Medium grained gabbro with 1/8% pho as blebs	472483	5119654	250 m
A3480	Sawmill Bay	Frank Racicot sample #189	472353	5119646	250 m

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		<1/4% fine disseminated pho and ccp in medium grained gabbro; medium green-grey colour			
<b>A3481</b>	Sawmill Bay	Frank Racicot sample #196 <1/4% fine disseminated and fracture controlled pho and ccp in medium grained gabbro; medium green-grey colour	472205	5119420	250 m
<b>A3482</b>	Sawmill Bay	Frank Racicot sample #201 trace disseminated pho in rusty, fractured medium grained gabbro	472231	5119436	250 m
<b>A3483</b>	Sawmill Bay	Frank Racicot sample #207 <1/2% disseminated pho in medium grained grey-green gabbro	472186	5119441	250 m
<b>A3484</b>	Sawmill Bay	Frank Racicot sample #208 trace pho in blebs plus trace ccp in fractures in medium grained gabbro	472029	5119309	250 m
<b>A3485</b>	Sawmill Bay	Frank Racicot sample #211 1/2% (pho 90: ccp 10) blebs in rust stained medium grained gabbro	471884	5119218	250 m
<b>A3486</b>	Sawmill Bay	Frank Racicot sample #219 trace ccp along fractures in medium grained gabbro	471674	5119225	250 m
<b>A3487</b>	Sawmill Bay	Frank Racicot sample #219a; outcrop grab sample 4-5% (pho 90: ccp 10) sulphides in rusty brown gabbro	471674	5119225	250 m
<b>A3488</b>	Sawmill Bay	Frank Racicot sample #223; outcrop grab sample trace white ?sulphide mineral; fine to medium grained chloritic gabbro	471481	5119104	250 m
<b>A3489</b>	Sawmill Bay	Frank Racicot sample #246; outcrop grab sample 2-4% (pho 95: 5 ccp) sulphides in medium grained green coloured gabbro	471665	5118678	250 m
<b>A3490</b>	Sawmill Bay	Frank Racicot sample #246a; outcrop grab sample 1-2% (pho 90: ccp 10) in medium grained gabbro	471665	5118678	250 m
<b>A3491</b>	Sawmill Bay	Frank Racicot sample #246b; outcrop grab sample 3-4% (pho 80: ccp 20) in medium grained gabbro; disseminated but mostly fracture-controlled ccp; weakly magnetic in places	471665	5118678	250 m
<b>A3492</b>	Sawmill Bay	Frank Racicot sample #246c; outcrop grab sample ~5% ccp in a single 3 x 2cm bleb in the sample; medium grained gabbro; non magnetic	471665	5118676	250 m
<b>A3493</b>	Sawmill Bay	Frank Racicot sample #246d; outcrop grab sample 1-3% (pho 70: ccp 30) as disseminated sulphides in medium grained greenish gabbro	471663	5118669	250 m

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<b>A3494</b>	Sawmill Bay	Frank Racicot sample #248; outcrop grab sample ?quartz monzonite with xenoliths of gabbro; 1-2% (pho 95: ccp 5) as fine disseminated sulphides in the quartz monzonite	471649	5118742	250 m
<b>A3495</b>	Sawmill Bay	Frank Racicot sample #249; outcrop grab sample 1/2% ccp-pho in close proximity to a 1cm wide quartz vein in medium grained gabbro; 1/2cm bleb of pho	471647	5118720	250 m
<b>A3496</b>	Sawmill Bay	Frank Racicot sample #252; outcrop grab sample 1/2-1% disseminated fine grained pho in rusty, moderately magnetic medium grained grey gabbro	471619	5118663	250 m
<b>A3497</b>	Sawmill Bay	Frank Racicot sample #253; outcrop grab sample 2-3% (pyrite 96: ccp 4) in rusty, grey, medium grained, non magnetic gabbro	471614	5118629	250 m
<b>A3498</b>	Sawmill Bay	Frank Racicot sample #253a; outcrop grab sample 2-3% (pyrite 96: cpy 3: pho 1) in grey quartz-rich ?monzonite	471614	5118631	250 m
<b>A3499</b>	Sawmill Bay	Frank Racicot sample #280; outcrop grab sample 1/4-1/2% (pho 98: ccp 2) as 3-4mm blebs in medium grained gabbro	471663	5118669	250 m
<b>A3500</b>	Sawmill Bay	Frank Racicot sample #282; outcrop grab sample ~2% disseminated ccp and ~2% dissem pyrite; medium to fine grained gabbro	471542	5118371	250 m
<b>A3501</b>	Sawmill Bay	Frank Racicot sample #282a; outcrop grab sample ~1% ccp as blebs with pho to 1cm; possible porphyritic texture	471544	5118374	250 m
<b>A3502</b>	Sawmill Bay	Frank Racicot sample #282b; outcrop grab sample Blebs to 1.5cm of pho (~3% overall) and fine disseminated ccp (~1/2%); possible porphyritic texture	471544	5118374	250 m
<b>A3503</b>	Sawmill Bay	Frank Racicot sample #283; outcrop grab sample blebs to 1.5cm of pho 95: ccp 5 in medium grained, grey gabbro	471530	5118093	250 m
<b>A3504</b>	Sawmill Bay	Frank Racicot sample #285; outcrop grab sample Trace pyrite-ccp along fractures in medium grained gabbro	471483	5118322	250 m
<b>A3505</b>	Sawmill Bay	Frank Racicot sample #286; outcrop grab sample 5-6% (pyrite 95: ccp 5) as disseminated grains in medium grained gabbro; also some fracture-controlled sulphides	471498	5118312	250 m
<b>A3506</b>	Sawmill Bay	Frank Racicot sample #286a; outcrop grab sample Same as A3505	471498	5118313	250 m
<b>A3507</b>	Sawmill Bay	Frank Racicot sample #293; outcrop grab sample Medium grained gabbro with trace ccp on fractures	471518	5118238	250 m

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A3508	Sawmill Bay	Frank Racicot sample #294; outcrop grab sample 1/2-1% (pho 95: ccp 5) as small blebs and as disseminated sulphides along fractures in medium grained gabbro	471518	5118234	250 m
A3509	Sawmill Bay	Frank Racicot sample #295; outcrop grab sample Trace disseminated pyrite-pho in medium grained, green gabbro beside #98169	471495	5118248	250 m
A3510	Sawmill Bay	Frank Racicot sample #311; outcrop grab sample 1/2% pyrite in porphyry textured gabbro	470635	5117529	250 m
A3511	Sawmill Bay	Frank Racicot sample #312; outcrop grab sample <1/4% (pho 80: ccp 20) as small blebs along fractures in medium grained gabbro	470534	5117506	250 m
A3512	Sawmill Bay	Frank Racicot sample #312a; outcrop grab sample <1/4% (pho 80: ccp 20) as small blebs along fractures in medium grained gabbro; minor epidote	470534	5117511	250 m
A3513	Sawmill Bay	Frank Racicot sample #329; outcrop grab sample trace pyrite in fine grained dark gabbro beside #49652	470998	5117975	250 m
A3514	Sawmill Bay	Frank Racicot sample #330; outcrop grab sample trace disseminated pyrite in medium grained gabbro; greenish porphyritic texture	470990	5117953	250 m
A3515	Sawmill Bay	Frank Racicot sample #335; outcrop grab sample 1-2% (pyrite 50: pho 40: ccp 10) in medium grained gabbro beside #98161	471519	5118297	250 m
A3516	Sawmill Bay	Frank Racicot sample #336; outcrop grab sample 1-2% pho as blebs in medium grained gabbro beside #98155	470716	5117580	250 m
A3517	Brazil Lake	SW corner of whole claim group, pit sample. Quartzite breccia with ~50% pho infilling spaces between clasts of quartzite; strongly magnetic	446790	5122060	250 m
A3518	Sawmill Bay	Medium grained gabbro with <1% disseminated ccp & 1% pho in blebs to 5mm; some veinlets of quartz carry trace ccp-pho; outcrop grab sample	471660	5118672	245 m
A3519	Sawmill Bay	Grab sample from a rock pile next to a pit within a quartz vein; 1-2% cobaltite with minor erythrite on fractures. Rock is dominantly quartz-tremolite	471441	5118811	249 m
A3520	Sawmill Bay	Grab sample of outcropping arsenopyrite-tourmaline-quartz vein material; ~10-15% arsenopyrite; vein exposed in pit	471303	5118931	236 m
A3521	Sawmill Bay	Grab sample of rock pile material next to pit at A3520.	471344	5118999	247 m

## Appendix B: Rock Sample Descriptions & Locations

UTM NAD 83 Zone 17

<u>Name</u>	<u>Location</u>	<u>Description</u>	<u>mE</u> *	<u>mN</u> *	<u>RL</u>
		Tourmaline-arsenopyrite-pyrite-quartz vein material with ~5% arsenopyrite and ~5% pyrite			
<b>A3522</b>	Sawmill Bay	Grab subcrop and outcrop in a 1x1x1m pit (dug by G.Salo). Quartzite with quartz veins containing disseminated arsenopyrite (grainsize to 1/2cm)	471327	5118868	251 m
<b>A3523</b>	Sawmill Bay	Outcrop grab sample of leucocratic gabbro (?monzonite); ~4% ccp and ~3% pyrite; medium grained and non magnetic; sulphides associated with narrow 1mm wide quartz veinlets	471503	5118333	249 m
<b>A3524</b>	Sawmill Bay	Outcrop grab sample of leucocratic gabbro (?monzonite) with disseminated ccp (~2%) and pho (~2%)	471518	5118293	243 m
<b>A3525</b>	Boundary P't	1.5m channel sample in silicified calcareous metasediment; trace erythrite on fractures	466859	5118327	256 m
<b>A3526</b>	Boundary P't	2m channel sample mostly within quartz vein material with zones of silicified metasediment	466860	5118329	256 m
<b>A3527</b>	Boundary P't	1.7m channel sample in a milky quartz vein; unmineralised looking	466863	5118330	256 m
<b>A3528</b>	Boundary P't	1.3m channel sample in brecciated quartz vein; dark fine ?sulphide-bearing matrix infilling between clasts	466864	5118331	256 m
<b>A3529</b>	Boundary P't	2m channel sample: same as A3528	466866	5118333	256 m

\* UTM NAD83 17T GPS accuracy variable due to forest cover



**APPENDIX C**

**LABORATORY ASSAY DATA**



## Certificate of Analysis

Work Order: 086749

To: **Argosy Minerals**  
20607 Logan Avenue  
LANGLEY  
BC /CANADA/V3A 7R3 V3A 7R3

Date: Nov 29, 2006

P.O. No. :  
Project No. : DEFAULT  
No. Of Samples 64  
Date Submitted Nov 30, 2005  
Report Comprises Pages 1 to 9  
(Inclusive of Cover Sheet)

**Distribution of unused material:**

64 Pulps

Certified By : \_\_\_\_\_

  
Stuart Lam  
Operations Manager

**ISO 9002 REGISTERED**  
**ISO 17025 Accredited for Specific Tests. SCC No. 456**

Report Footer:

L.N.R. = Listed not received  
n.a. = Not applicable

I.S. = Insufficient Sample  
- = No result

\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted

Subject to SGS General Terms and Conditions

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Element Method Det.Lim. Units	Au FAI30P 1 PPB	Pt FAI30P 10 PPB	Pd FAI30P 1 PPB	Ag ICP40B 2 PPM	Al ICP40B 0.01 %	As ICP40B 3 PPM	Ba ICP40B 1 PPM	Be ICP40B 0.5 PPM	Bi ICP40B 5 PPM	Ca ICP40B 0.01 %
A3466	154	200	216	<2	7.08	4	151	0.7	<5	5.91
A3467	2	<10	14	<2	4.25	6	37	1.0	<5	1.45
A3468	<1	<10	<1	<2	5.55	8	33	1.4	<5	1.64
A3469	2	<10	<1	5	7.84	20	380	1.6	<5	2.44
A3470	8	<10	34	4	0.03	758	9	<0.5	<5	0.02
A3471	51	<10	71	<2	0.03	822	9	<0.5	<5	0.04
A3472	2	<10	2	<2	4.48	447	18	0.8	<5	0.21
A3473	2	<10	<1	<2	3.12	218	10	<0.5	<5	0.02
A3474	157	<10	74	5	0.46	9200	13	<0.5	<5	>15
A3475	30	50	77	<2	6.03	16	50	<0.5	<5	7.61
A3476	21	<10	9	<2	6.46	10	105	1.0	<5	5.11
A3477	6	20	17	<2	6.44	7	70	<0.5	<5	7.51
A3478	11	30	26	<2	6.32	10	73	<0.5	<5	7.24
A3479	10	30	26	<2	6.36	5	74	<0.5	<5	7.75
A3480	12	20	16	<2	6.80	8	85	<0.5	<5	6.81
A3481	7	20	16	<2	6.24	8	90	<0.5	<5	7.39
A3482	31	80	106	<2	6.53	44	93	<0.5	<5	7.08
A3483	28	40	46	<2	6.69	<3	79	<0.5	<5	6.86
A3484	9	20	17	<2	6.71	6	71	<0.5	<5	6.95
A3485	166	200	451	<2	7.00	32	61	<0.5	<5	6.93
A3486	9	20	13	<2	6.93	9	67	<0.5	<5	7.09
3487	378	370	553	2	6.32	43	79	<0.5	<5	6.91
A3488	15	60	91	<2	7.61	1360	83	0.6	<5	2.34
A3489	223	270	563	3	6.99	384	74	<0.5	<5	7.26
A3490	291	410	840	3	6.82	946	136	<0.5	<5	6.27
A3491	462	610	1030	5	6.58	491	69	<0.5	<5	6.51
A3492	57	20	33	2	6.46	36	67	<0.5	<5	7.10
A3493	393	640	1180	3	6.08	613	74	<0.5	<5	7.15
A3494	48	50	41	<2	5.88	178	99	<0.5	<5	3.55
A3495	12	10	12	4	6.20	49	50	0.5	<5	5.87
A3496	778	<10	<1	<2	6.14	11	83	1.4	6	3.85
A3497	47	<10	<1	<2	5.80	<3	58	1.2	<5	1.47
A3498	44	<10	<1	<2	6.43	<3	99	1.3	<5	1.52
A3499	23	30	28	<2	6.37	45	75	<0.5	<5	6.72
A3500	329	430	311	8	5.22	81	107	<0.5	<5	5.81
A3501	50	90	112	5	7.32	74	96	<0.5	<5	6.50
A3502	31	110	82	<2	7.79	49	109	<0.5	<5	6.54
A3503	56	240	324	<2	7.13	183	65	<0.5	<5	5.96
A3504	9	20	23	<2	5.38	28	69	<0.5	<5	6.80
A3505	77	120	116	3	6.05	400	74	<0.5	<5	5.33
A3506	35	50	44	<2	6.17	153	72	<0.5	<5	6.75
A3507	7	20	24	<2	8.42	13	102	<0.5	<5	6.81
A3508	14	20	27	<2	6.74	35	62	<0.5	<5	6.65
A3509	12	20	29	<2	6.66	36	69	<0.5	<5	6.74
A3510	16	10	14	<2	5.92	26	130	<0.5	<5	5.93
A3511	3	<10	1	<2	6.24	19	126	<0.5	<5	6.52
A3512	4	<10	<1	<2	8.16	7	124	<0.5	<5	6.17
A3513	2	10	21	<2	7.07	20	51	<0.5	<5	6.75

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Element	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca
Method	FAI30P	FAI30P	FAI30P	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B
Det.Lim.	1	10	1	2	0.01	3	1	0.5	5	0.01
Units	PPB	PPB	PPB	PPM	%	PPM	PPM	PPM	PPM	%
A3514	2	10	19	<2	7.09	17	55	<0.5	<5	7.48
A3515	140	250	224	<2	6.45	220	57	<0.5	<5	6.80
A3516	12	30	34	3	6.50	42	47	<0.5	<5	7.25
A3517	3	<10	9	<2	0.30	<3	4	<0.5	<5	0.33
A3518	65	130	339	<2	6.82	507	65	<0.5	<5	7.03
A3519	55	<10	7	<2	0.72	2760	8	0.6	<5	5.17
A3520	4170	<10	2	<2	1.69	>10000	162	<0.5	19	0.15
A3521	8	<10	<1	<2	0.07	777	2	<0.5	<5	0.13
A3522	95	<10	<1	<2	2.70	>10000	358	1.0	<5	0.10
A3523	59	90	110	<2	5.91	189	78	<0.5	<5	6.16
A3524	35	<10	9	<2	8.65	35	78	0.7	<5	6.53
A3525	<1	<10	<1	<2	6.39	32	19	1.6	<5	1.96
A3526	<1	<10	<1	<2	0.19	29	5	<0.5	<5	1.22
A3527	<1	<10	<1	<2	0.07	25	2	<0.5	<5	0.08
A3528	<1	<10	<1	<2	0.01	40	3	<0.5	<5	6.80
A3529	2	<10	3	<2	5.09	149	10	0.7	<5	3.55
*Dup A3466	138	200	220	<2	7.30	12	154	0.6	<5	6.10
*Dup A3478	8	20	24	<2	6.58	15	74	<0.5	<5	7.34
*Dup A3490	261	450	850	2	7.11	1030	132	<0.5	<5	6.55
*Dup A3502	30	110	72	<2	7.99	58	105	<0.5	<5	6.54
*Dup A3514	3	10	19	<2	7.20	14	51	<0.5	<5	7.63
Dup A3526	<1	<10	<1	<2	0.18	23	3	<0.5	<5	1.20

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Element	Cd	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn
Method	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B
Det.Lim.	1	1	1	0.5	0.01	0.01	0.5	1	0.01	2
Units	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM
A3466	<1	45	63	1600	7.48	0.65	8.4	7	3.50	948
A3467	<1	19	96	73.3	2.30	0.50	8.8	4	2.66	168
A3468	<1	10	44	22.1	1.21	0.59	22.4	5	1.81	121
A3469	<1	51	217	62.6	5.76	1.80	26.9	32	2.05	235
A3470	<1	1030	71	1540	>15	<0.01	1.8	6	0.02	46
A3471	<1	413	47	3000	2.10	0.02	<0.5	3	0.01	76
A3472	<1	416	66	1220	12.4	0.20	0.8	5	0.69	89
A3473	<1	280	54	359	6.55	0.07	<0.5	7	1.86	52
A3474	1	3920	223	1810	6.32	0.07	7.3	22	7.34	1950
A3475	<1	48	462	438	6.82	0.31	3.3	13	6.85	1350
A3476	<1	54	138	835	4.98	0.60	18.1	15	2.48	711
A3477	<1	40	371	98.8	5.84	0.49	3.7	13	5.79	1160
A3478	<1	41	427	137	5.75	0.54	3.5	17	6.02	1140
A3479	<1	39	441	132	6.05	0.49	4.3	12	5.67	1260
A3480	<1	38	306	333	5.68	0.49	4.1	15	5.12	1180
A3481	<1	46	393	153	6.18	0.46	4.1	17	5.78	1210
A3482	<1	63	332	604	6.30	0.51	4.0	15	5.63	1010
A3483	<1	46	325	367	7.09	0.40	6.4	13	4.71	1270
A3484	<1	44	277	137	6.34	0.41	4.2	8	5.33	1200
A3485	<1	64	286	1300	6.66	0.43	3.7	16	5.17	1140
A3486	<1	35	316	241	5.30	0.39	4.3	11	5.14	1080
3487	<1	75	417	2840	7.32	0.45	4.1	10	5.21	1120
A3488	<1	256	157	74.0	2.49	0.21	11.6	10	3.00	253
A3489	<1	61	236	2350	7.35	0.43	5.5	13	4.65	1260
A3490	<1	126	200	3480	7.91	0.65	5.6	15	4.03	1140
A3491	<1	54	230	5900	8.26	0.39	5.4	18	3.97	1120
A3492	<1	38	324	2830	6.50	0.36	4.5	15	5.05	1240
A3493	<1	54	345	4370	7.35	0.35	3.8	13	5.00	1170
A3494	<1	63	195	997	6.80	0.63	7.5	24	4.20	930
A3495	<1	74	191	368	6.40	0.23	5.2	20	4.82	1060
A3496	<1	21	34	186	6.71	0.38	19.4	9	1.29	708
A3497	<1	47	42	575	4.16	0.43	14.4	18	0.87	212
A3498	<1	38	65	598	5.28	0.73	12.9	23	1.12	287
A3499	<1	56	197	1100	7.75	0.46	3.3	15	5.47	1480
A3500	1	65	423	4860	10.0	0.58	4.2	45	5.34	1340
A3501	<1	81	337	942	6.65	0.66	3.3	41	4.78	1150
A3502	<1	56	132	714	6.44	0.75	3.4	17	4.36	1020
A3503	<1	85	346	418	6.03	0.49	3.3	16	5.12	744
A3504	<1	50	287	323	6.35	0.32	3.7	10	6.33	1290
A3505	<1	96	291	3950	8.58	0.39	3.1	27	5.47	1310
A3506	<1	49	251	1630	7.02	0.37	3.0	14	5.47	1270
A3507	<1	33	170	167	5.32	0.68	3.4	17	4.30	1160
A3508	<1	64	139	398	7.03	0.40	3.0	14	5.14	1230
A3509	<1	47	258	294	6.32	0.34	3.3	11	5.56	1180
A3510	<1	67	119	575	7.79	0.55	5.8	16	5.14	1330
A3511	<1	44	134	151	7.06	0.72	5.3	10	5.13	1210
A3512	<1	29	57	174	5.67	0.71	7.0	14	3.10	766
A3513	<1	33	330	144	6.22	0.26	4.0	7	4.53	796

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Element	Cd	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn
Method	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B
Det.Lim.	1	1	1	0.5	0.01	0.01	0.5	1	0.01	2
Units	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM
A3514	<1	42	429	105	6.69	0.39	4.2	11	4.77	1050
A3515	<1	60	304	3210	7.49	0.39	3.2	13	5.74	1110
A3516	<1	52	345	216	6.79	0.32	3.5	22	5.71	1170
A3517	<1	429	14	487	>15	<0.01	20.8	1	0.06	44
A3518	<1	89	363	1070	6.30	0.38	3.4	12	5.13	1120
A3519	<1	776	88	35.6	2.92	0.03	4.5	9	5.11	1020
A3520	<1	894	33	16.2	5.56	0.35	14.4	2	0.37	85
A3521	<1	38	28	91.1	1.41	<0.01	<0.5	<1	0.03	55
A3522	<1	397	41	26.2	2.02	0.84	4.3	4	0.25	130
A3523	<1	78	237	2440	7.69	0.39	3.6	15	5.65	1200
A3524	<1	16	111	2320	3.31	0.47	15.2	11	2.07	560
A3525	<1	20	23	19.2	0.98	0.34	32.5	7	2.48	141
A3526	<1	16	36	66.5	1.23	0.02	2.1	3	0.60	173
A3527	<1	6	14	47.5	0.73	<0.01	0.9	<1	0.05	86
A3528	<1	5	31	39.8	1.92	<0.01	2.0	<1	3.29	691
A3529	<1	34	76	127	3.61	0.10	13.1	4	1.78	690
*Dup A3466	<1	46	54	1620	7.89	0.68	8.9	6	3.64	954
*Dup A3478	<1	45	394	137	5.98	0.54	3.6	21	6.00	1110
*Dup A3490	<1	121	185	3670	8.54	0.67	5.7	12	4.17	1100
*Dup A3502	<1	54	138	715	6.56	0.75	3.4	15	4.34	1000
*Dup A3514	<1	41	402	110	6.75	0.40	4.3	12	4.96	1090
Jup A3526	<1	13	32	68.9	1.19	0.01	2.2	1	0.60	168

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Provisional 086745-010101

Element	Mo	Na	Ni	P	Pb	Sb	Sc	Sn	Sr	Ti
Method	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B
Det.Lim.	1	0.01	1	0.01	2	5	0.5	10	0.5	0.01
Units	PPM	%	PPM	%	PPM	PPM	PPM	PPM	PPM	%
A3466	2	1.83	286	0.02	7	<5	32.5	<10	184	0.43
A3467	2	3.10	134	0.02	2	<5	9.5	<10	23.7	0.05
A3468	3	4.04	40	0.04	3	<5	10.3	<10	26.5	0.03
A3469	10	3.07	169	0.07	3	<5	27.4	<10	165	0.48
A3470	<1	0.02	6390	<0.01	26	6	1.0	<10	1.8	<0.01
A3471	1	0.04	298	<0.01	7	<5	<0.5	<10	4.1	<0.01
A3472	<1	3.59	455	<0.01	38	<5	2.0	<10	14.6	<0.01
A3473	<1	1.81	60	<0.01	13	<5	1.6	<10	8.5	<0.01
A3474	5	0.10	1930	<0.01	14	<5	111	<10	71.4	0.02
A3475	3	1.16	303	<0.01	5	<5	47.1	<10	97.3	0.21
A3476	2	1.88	122	0.08	6	<5	29.5	<10	159	0.78
A3477	1	1.06	182	<0.01	5	<5	42.1	<10	120	0.21
A3478	2	1.08	201	<0.01	4	<5	42.7	<10	123	0.18
A3479	2	1.03	177	<0.01	3	<5	42.4	<10	114	0.21
A3480	1	1.28	171	<0.01	7	<5	39.4	<10	123	0.24
A3481	2	1.09	202	<0.01	5	<5	43.0	<10	115	0.24
A3482	2	1.53	390	<0.01	7	<5	42.5	<10	154	0.19
A3483	2	1.29	152	0.01	5	<5	44.0	<10	118	0.33
A3484	2	1.26	171	<0.01	4	<5	43.6	<10	118	0.25
A3485	2	1.10	584	<0.01	5	<5	41.3	<10	129	0.22
A3486	2	1.23	156	<0.01	4	<5	40.9	<10	124	0.23
J487	3	1.07	1250	<0.01	6	<5	40.1	<10	117	0.24
A3488	2	5.20	675	0.06	4	<5	16.2	<10	186	0.26
A3489	2	1.05	735	0.01	8	<5	42.2	<10	150	0.30
A3490	3	0.88	1420	0.01	9	<5	38.6	<10	141	0.32
A3491	3	0.81	1670	<0.01	10	<5	36.9	<10	143	0.30
A3492	2	1.16	401	<0.01	9	<5	40.6	<10	158	0.28
A3493	2	1.00	908	0.01	9	<5	35.6	<10	146	0.22
A3494	2	0.98	538	<0.01	5	<5	33.0	<10	85.8	0.20
A3495	4	2.22	309	<0.01	6	<5	43.7	<10	130	0.29
A3496	2	2.22	23	0.05	6	<5	32.5	<10	168	0.97
A3497	2	2.79	34	0.06	9	<5	25.0	<10	182	0.63
A3498	2	2.75	34	0.05	8	<5	22.0	<10	175	0.57
A3499	2	1.07	402	<0.01	6	<5	46.8	<10	111	0.24
A3500	5	0.85	680	0.01	16	<5	44.5	<10	83.4	0.25
A3501	6	1.17	559	<0.01	5	<5	38.1	<10	138	0.18
A3502	1	1.28	361	<0.01	5	<5	33.2	<10	156	0.18
A3503	4	1.85	668	<0.01	6	<5	36.4	<10	119	0.17
A3504	1	1.05	231	<0.01	4	<5	48.6	<10	87.7	0.24
A3505	3	0.73	1400	<0.01	8	<5	43.8	<10	69.8	0.24
A3506	2	1.02	557	<0.01	6	<5	43.4	<10	89.1	0.23
A3507	2	1.31	146	<0.01	5	<5	32.8	<10	155	0.20
A3508	2	1.31	281	<0.01	8	<5	36.1	<10	137	0.22
A3509	1	1.79	178	<0.01	6	<5	42.1	<10	133	0.21
A3510	1	1.04	271	0.01	9	<5	46.5	<10	103	0.30
A3511	2	1.14	134	0.01	7	<5	46.3	<10	107	0.32
A3512	1	2.14	71	0.02	9	<5	30.3	<10	188	0.34
A3513	2	2.24	122	0.01	4	<5	40.0	<10	102	0.31

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Element	Mo	Na	Ni	P	Pb	Sb	Sc	Sn	Sr	Ti
Method	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B
Det.Lim.	1	0.01	1	0.01	2	5	0.5	10	0.5	0.01
Units	PPM	%	PPM	%	PPM	PPM	PPM	PPM	PPM	%
A3514	<1	1.48	333	0.01	3	<5	40.1	<10	107	0.27
A3515	1	1.01	979	<0.01	6	<5	41.6	<10	94.8	0.17
A3516	2	1.27	286	<0.01	8	<5	44.4	<10	103	0.20
A3517	2	0.22	852	0.09	13	<5	<0.5	<10	3.1	0.01
A3518	1	1.21	501	0.01	6	<5	38.2	<10	147	0.19
A3519	2	0.09	1070	0.02	<2	<5	64.9	<10	22.0	<0.01
A3520	<1	0.13	103	0.03	11	6	3.3	<10	23.4	0.04
A3521	<1	0.02	47	<0.01	3	<5	0.6	<10	3.2	<0.01
A3522	<1	0.99	86	0.02	<2	<5	2.8	<10	17.4	0.04
A3523	2	0.99	917	<0.01	6	<5	43.6	<10	91.2	0.22
A3524	<1	2.97	131	0.10	7	<5	26.7	<10	180	0.62
A3525	3	4.79	36	0.04	<2	<5	10.7	<10	19.6	0.03
A3526	2	0.15	83	<0.01	3	<5	7.7	<10	8.0	<0.01
A3527	<1	0.05	25	<0.01	<2	<5	2.4	<10	1.3	<0.01
A3528	<1	0.03	10	0.04	<2	<5	38.4	<10	19.1	<0.01
A3529	2	4.06	186	0.08	6	<5	20.7	<10	25.4	0.03
*Dup A3466	1	1.87	279	0.02	5	<5	32.8	<10	188	0.43
*Dup A3478	2	1.10	218	<0.01	4	<5	43.1	<10	124	0.18
*Dup A3490	1	0.89	1330	0.02	7	<5	38.2	<10	139	0.31
*Dup A3502	<1	1.25	334	<0.01	5	<5	32.6	<10	151	0.17
*Dup A3514	2	1.51	313	0.01	4	<5	41.0	<10	110	0.28
Dup A3526	2	0.14	81	<0.01	<2	<5	7.9	<10	6.3	<0.01

data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.





Reference: 0867-11-10-101

Element	V	W	Y	Zn	Zr	As	Ca	Fe
Method	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICA50	ICA50	ICA50
Det.Lim.	2	10	0.5	0.5	0.5	0.01	0.01	0.01
Units	PPM	PPM	PPM	PPM	PPM	%	%	%
A3466	215	<10	14.6	47.0	55.2	N.A.	N.A.	N.A.
A3467	56	<10	7.4	6.9	99.5	N.A.	N.A.	N.A.
A3468	61	<10	9.9	6.5	139	N.A.	N.A.	N.A.
A3469	244	<10	21.6	21.1	172	N.A.	N.A.	N.A.
A3470	13	<10	1.8	9.0	9.5	N.A.	N.A.	52.7
A3471	<2	<10	<0.5	12.0	3.6	N.A.	N.A.	N.A.
A3472	23	<10	1.7	5.5	73.9	N.A.	N.A.	N.A.
A3473	8	<10	1.3	17.2	64.1	N.A.	N.A.	N.A.
A3474	84	<10	39.1	165	22.8	N.A.	15.6	N.A.
A3475	218	<10	9.8	53.7	27.2	N.A.	N.A.	N.A.
A3476	232	<10	36.1	38.6	103	N.A.	N.A.	N.A.
A3477	205	<10	10.6	47.6	25.8	N.A.	N.A.	N.A.
A3478	204	<10	9.9	47.0	24.4	N.A.	N.A.	N.A.
A3479	207	<10	11.3	50.3	28.1	N.A.	N.A.	N.A.
A3480	194	<10	10.4	55.6	29.9	N.A.	N.A.	N.A.
A3481	211	<10	10.9	54.9	34.6	N.A.	N.A.	N.A.
A3482	203	<10	9.5	49.0	18.2	N.A.	N.A.	N.A.
A3483	243	<10	15.5	54.0	40.6	N.A.	N.A.	N.A.
A3484	213	<10	11.0	50.2	25.9	N.A.	N.A.	N.A.
A3485	203	<10	10.1	54.4	30.7	N.A.	N.A.	N.A.
A3486	199	<10	11.0	49.0	26.6	N.A.	N.A.	N.A.
A3487	203	<10	10.5	64.0	25.5	N.A.	N.A.	N.A.
A3488	141	<10	10.0	13.2	103	N.A.	N.A.	N.A.
A3489	222	<10	13.4	69.5	31.1	N.A.	N.A.	N.A.
A3490	215	<10	13.6	76.2	39.0	N.A.	N.A.	N.A.
A3491	214	<10	12.6	77.5	38.9	N.A.	N.A.	N.A.
A3492	214	<10	11.2	79.4	24.7	N.A.	N.A.	N.A.
A3493	200	<10	9.7	76.1	21.7	N.A.	N.A.	N.A.
A3494	172	<10	10.0	65.8	47.8	N.A.	N.A.	N.A.
A3495	219	<10	12.2	47.3	49.5	N.A.	N.A.	N.A.
A3496	369	<10	40.2	26.1	121	N.A.	N.A.	N.A.
A3497	123	<10	36.1	12.1	202	N.A.	N.A.	N.A.
A3498	177	<10	31.7	16.5	138	N.A.	N.A.	N.A.
A3499	223	<10	10.8	74.5	29.9	N.A.	N.A.	N.A.
A3500	230	<10	11.6	53.7	76.2	N.A.	N.A.	N.A.
A3501	183	<10	8.9	51.1	54.5	N.A.	N.A.	N.A.
A3502	170	<10	7.9	45.0	16.9	N.A.	N.A.	N.A.
A3503	173	<10	7.9	47.6	26.5	N.A.	N.A.	N.A.
A3504	220	<10	10.7	55.3	26.2	N.A.	N.A.	N.A.
A3505	208	<10	10.2	79.1	35.4	N.A.	N.A.	N.A.
A3506	204	<10	10.3	58.5	26.6	N.A.	N.A.	N.A.
A3507	166	<10	9.3	52.8	18.7	N.A.	N.A.	N.A.
A3508	184	<10	9.4	65.0	17.1	N.A.	N.A.	N.A.
A3509	199	<10	9.4	46.7	19.6	N.A.	N.A.	N.A.
A3510	230	<10	13.5	59.9	36.2	N.A.	N.A.	N.A.
A3511	242	<10	13.8	52.7	38.5	N.A.	N.A.	N.A.
A3512	212	<10	13.0	47.2	32.3	N.A.	N.A.	N.A.
A3513	230	<10	13.1	31.0	34.7	N.A.	N.A.	N.A.

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Provisional: 05870-0100

Element	V	W	Y	Zn	Zr	As	Ca	Fe
Method	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICA50	ICA50	ICA50
Det.Lim.	2	10	0.5	0.5	0.5	0.01	0.01	0.01
Units	PPM	PPM	PPM	PPM	PPM	%	%	%
A3514	216	<10	11.9	60.8	27.4	N.A.	N.A.	N.A.
A3515	199	<10	8.2	64.5	16.6	N.A.	N.A.	N.A.
A3516	212	<10	9.6	106	30.7	N.A.	N.A.	N.A.
A3517	<2	<10	5.1	2.5	4.6	N.A.	N.A.	27.5
A3518	190	20	9.2	53.1	18.3	N.A.	N.A.	N.A.
A3519	30	1060	60.7	26.8	4.9	N.A.	N.A.	N.A.
A3520	26	<10	3.9	4.3	81.6	5.11	N.A.	N.A.
A3521	<2	620	3.9	2.3	<0.5	N.A.	N.A.	N.A.
A3522	21	10	2.5	8.0	52.2	1.30	N.A.	N.A.
A3523	215	<10	10.3	67.5	24.8	N.A.	N.A.	N.A.
A3524	212	10	18.5	24.7	48.6	N.A.	N.A.	N.A.
A3525	51	<10	11.0	7.9	169	N.A.	N.A.	N.A.
A3526	6	<10	2.2	8.4	9.7	N.A.	N.A.	N.A.
A3527	3	<10	1.1	4.8	2.7	N.A.	N.A.	N.A.
A3528	26	<10	7.3	9.8	0.5	N.A.	N.A.	N.A.
A3529	89	<10	8.9	20.3	91.9	N.A.	N.A.	N.A.
*Dup A3466	225	<10	15.0	51.3	55.5	N.A.	N.A.	N.A.
*Dup A3478	203	<10	10.0	44.9	28.6	N.A.	N.A.	N.A.
*Dup A3490	223	<10	13.6	76.5	34.2	N.A.	N.A.	N.A.
*Dup A3502	171	<10	7.9	46.3	15.9	N.A.	N.A.	N.A.
*Dup A3514	220	<10	12.2	59.6	25.3	N.A.	N.A.	N.A.
Dup A3526	6	<10	2.2	6.8	8.3	N.A.	N.A.	N.A.

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



## Certificate of Analysis

Work Order: 086722

To: **Argosy Minerals**  
20607 Logan Avenue  
LANGLEY  
BC /CANADA/V3A 7R3 V3A 7R3

Date: Nov 29, 2006

P.O. No. :  
Project No. : DEFAULT  
No. Of Samples 65  
Date Submitted Nov 28, 2005  
Report Comprises Pages 1 to 9  
(Inclusive of Cover Sheet)

**Distribution of unused material:**

65 Pulps

Certified By : \_\_\_\_\_

  
Stuart Lam  
Operations Manager

**ISO 9002 REGISTERED**  
**ISO 17025 Accredited for Specific Tests. SCC No. 456**

Report Footer:

L.N.R. = Listed not received  
n.a. = Not applicable

I.S. = Insufficient Sample  
-- = No result

\*INF = Composition of this sample makes detection impossible by this method  
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion  
Methods marked with an asterisk (e.g. \*NAA08V) were subcontracted

Subject to SGS General Terms and Conditions

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Provisional 986722 Order

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Element Method Det.Lim. Units	Au FAI30P 1 PPB	Pt FAI30P 10 PPB	Pd FAI30P 1 PPB	Ag ICP40B 2 PPM	Al ICP40B 0.01 %	As ICP40B 3 PPM	Ba ICP40B 1 PPM	Be ICP40B 0.5 PPM	Bi ICP40B 5 PPM	Ca ICP40B 0.01 %
A3401	21	20	59	<2	0.35	308	4	<0.5	<5	<0.01
A3402	<1	<10	<1	<2	2.49	<3	32	0.5	<5	0.08
A3403	611	<10	2	<2	3.55	954	204	1.7	<5	0.05
A3404	180	20	19	4	3.32	9	12	<0.5	<5	1.67
A3405	9	<10	<1	<2	0.03	616	5	<0.5	<5	0.16
A3406	2	<10	1	<2	0.02	154	6	<0.5	<5	0.05
A3407	4	<10	5	<2	0.06	108	5	<0.5	<5	3.07
A3408	<1	<10	<1	<2	0.09	21	5	<0.5	<5	1.11
A3409	<1	<10	2	<2	1.74	<3	5	<0.5	<5	1.62
A3410	7	<10	5	<2	3.87	<3	8	2.6	<5	13.1
A3411	8	<10	3	<2	3.79	<3	8	2.5	<5	11.9
A3412	53	30	51	<2	4.47	47	24	1.1	<5	5.73
A3413	20	<10	9	<2	5.05	6	12	1.4	<5	9.52
A3414	10	<10	15	<2	3.15	<3	19	1.2	<5	12.0
A3415	10	<10	11	<2	3.13	<3	29	1.4	<5	11.7
A3416	4	<10	<1	<2	3.41	<3	29	0.9	<5	11.0
A3417	3	<10	4	<2	3.33	<3	28	1.2	<5	11.4
A3418	2	<10	11	<2	3.56	<3	15	1.9	<5	8.16
A3419	8	<10	6	<2	3.40	<3	9	1.5	<5	8.97
A3420	2	<10	4	<2	4.20	<3	54	1.7	<5	8.97
A3421	6	<10	9	<2	3.52	<3	26	1.7	<5	8.16
A22	2	<10	2	<2	3.33	<3	33	1.5	<5	7.88
A3423	3	<10	4	<2	3.36	<3	36	1.6	<5	8.15
A3424	28	50	38	<2	7.40	<3	38	1.0	<5	6.64
A3425	21	50	38	<2	7.80	<3	34	0.9	<5	7.40
A3426	27	30	38	<2	7.43	<3	32	0.9	<5	7.10
A3427	37	60	85	<2	7.22	<3	41	0.9	<5	6.99
A3428	25	80	73	<2	4.89	49	71	0.8	<5	4.97
A3429	<1	<10	2	<2	6.54	8	103	2.3	<5	1.73
A3430	<1	<10	2	<2	6.85	25	156	2.7	<5	4.35
A3431	<1	<10	4	<2	6.77	493	16	1.6	<5	0.28
A3432	<1	<10	2	<2	6.91	139	17	1.5	<5	0.98
A3433	<1	<10	1	<2	7.73	21	25	1.7	<5	0.94
A3434	24	70	48	<2	6.30	13	119	0.9	<5	3.34
A3435	13	40	38	<2	7.10	21	82	1.0	<5	4.23
A3436	<1	<10	2	<2	2.56	23	2	<0.5	<5	7.07
A3437	2	<10	10	<2	3.44	45	4	0.9	<5	2.92
A3438	8	<10	22	<2	0.05	213	5	<0.5	<5	3.18
A3439	16	<10	58	<2	0.23	838	10	<0.5	9	0.13
A3440	46	<10	11	<2	0.37	279	4	<0.5	<5	0.43
A3441	3	<10	4	<2	3.00	64	5	0.5	<5	1.57
A3442	<1	<10	4	<2	0.02	44	2	<0.5	<5	0.02
A3443	<1	<10	7	<2	0.03	68	2	<0.5	<5	0.04
A3444	1	<10	38	<2	0.28	454	5	<0.5	<5	0.83
A3445	2	<10	10	<2	1.55	148	6	<0.5	<5	5.86
A3446	7	<10	44	<2	0.14	1190	3	<0.5	<5	0.29
A3447	<1	<10	<1	<2	6.73	4	31	2.1	<5	0.07
A3448	6	<10	9	<2	5.31	6	235	1.2	<5	1.42

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Provisional: 086722 - Q11

Element	Au	Pt	Pd	Ag	Al	As	Ba	Be	Bi	Ca
Method	FAI30P	FAI30P	FAI30P	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B
Det.Lim.	1	10	1	2	0.01	3	1	0.5	5	0.01
Units	PPB	PPB	PPB	PPM	%	PPM	PPM	PPM	PPM	%
A3449	21	20	146	<2	7.56	16	111	0.8	<5	6.23
A3450	3	10	77	<2	8.47	21	145	1.2	<5	4.48
A3451	1	<10	58	<2	8.22	22	110	1.0	<5	4.79
A3452	22	80	184	<2	7.00	34	103	1.0	<5	4.88
A3453	62	70	144	<2	6.91	57	109	0.7	<5	4.38
A3454	58	50	137	<2	7.03	50	114	0.8	<5	4.46
A3455	10	40	44	<2	7.18	7	129	0.7	<5	5.67
A3456	5	20	29	<2	7.26	<3	128	0.7	<5	6.41
A3457	<1	<10	5	<2	6.84	3	51	0.7	<5	6.91
A3458	<1	<10	2	<2	6.49	7	78	0.6	<5	6.89
A3459	6	20	37	<2	4.41	3	96	0.7	<5	2.84
A3460	5	20	40	<2	4.48	28	69	0.8	<5	2.41
A3461	4	<10	9	<2	7.33	<3	127	1.1	<5	7.22
A3462	2	10	17	<2	7.40	<3	136	0.8	<5	7.05
A3463	2	<10	10	<2	7.98	4	123	0.7	<5	7.33
A3464	4	<10	10	<2	7.82	<3	140	0.7	<5	7.35
A3465	8	20	19	<2	7.47	<3	124	0.7	<5	7.03
*Dup A3401	20	<10	47	<2	0.37	323	4	<0.5	<5	<0.01
*Dup A3413	33	<10	14	<2	5.30	6	12	1.3	<5	9.90
*Dup A3425	21	30	37	<2	7.64	<3	35	0.9	<5	7.40
*Dup A3437	3	<10	9	<2	3.50	43	4	0.8	<5	3.00
ip A3449	11	20	155	<2	7.53	13	109	0.8	<5	6.38
*Dup A3461	3	<10	10	<2	7.54	4	128	0.7	<5	7.36

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Provisional - 086722 - Order

Element Method Det.Lim. Units	Cd ICP40B 1 PPM	Co ICP40B 1 PPM	Cr ICP40B 1 PPM	Cu ICP40B 0.5 PPM	Fe ICP40B 0.01 %	K ICP40B 0.01 %	La ICP40B 0.5 PPM	Li ICP40B 1 PPM	Mg ICP40B 0.01 %	Mn ICP40B 2 PPM
A3401	<1	413	30	1910	>15	0.01	0.8	2	0.35	48
A3402	<1	2	26	19.6	0.62	0.11	7.3	<1	0.08	48
A3403	<1	254	41	>10000	3.57	1.03	24.8	5	0.57	60
A3404	<1	100	41	>10000	7.93	0.10	4.4	4	0.08	188
A3405	<1	410	25	911	6.24	<0.01	0.7	<1	0.01	93
A3406	<1	101	29	195	2.21	<0.01	5.2	<1	<0.01	79
A3407	<1	66	15	309	1.86	<0.01	17.4	<1	1.81	522
A3408	<1	27	34	91.9	1.74	0.01	1.4	<1	0.52	205
A3409	<1	2	27	41.8	0.90	0.03	2.2	<1	0.76	242
A3410	<1	100	73	624	>15	0.03	11.9	4	1.99	1240
A3411	<1	116	77	592	>15	0.04	13.6	3	1.69	1170
A3412	<1	59	361	352	14.2	0.25	9.4	2	4.00	584
A3413	<1	37	107	195	10.7	0.11	20.5	3	2.25	893
A3414	<1	139	55	1040	>15	0.16	40.9	3	1.43	1440
A3415	2	155	60	1600	>15	0.24	49.3	5	1.34	1510
A3416	1	63	57	412	>15	0.27	16.5	4	1.23	1490
A3417	<1	105	56	850	>15	0.28	45.9	9	1.66	887
A3418	<1	23	55	130	8.23	0.12	24.3	4	6.42	520
A3419	<1	130	64	1100	>15	0.08	57.7	3	3.81	577
A3420	<1	60	55	231	>15	0.42	20.4	6	1.16	1150
A3421	<1	111	59	1020	>15	0.22	54.1	4	1.93	960
22	<1	72	53	364	>15	0.29	35.2	6	3.02	957
A3423	1	72	61	362	>15	0.30	35.8	6	2.96	973
A3424	<1	46	49	589	6.52	0.33	11.1	3	3.94	536
A3425	<1	41	44	591	6.45	0.27	9.3	3	3.80	524
A3426	<1	46	48	684	7.03	0.30	7.2	4	3.67	527
A3427	<1	54	62	878	7.91	0.34	7.5	5	3.74	547
A3428	<1	102	183	918	9.74	0.91	4.7	5	6.03	663
A3429	<1	13	44	68.2	2.81	2.14	29.6	11	2.79	78
A3430	<1	21	46	32.0	4.08	2.34	36.6	16	4.76	381
A3431	<1	193	49	14.0	0.31	0.21	34.4	1	0.13	63
A3432	<1	83	26	14.8	0.47	0.19	4.4	1	0.51	164
A3433	<1	12	31	8.7	0.50	0.21	27.0	2	0.59	184
A3434	<1	61	265	638	7.61	0.78	7.4	7	6.08	618
A3435	<1	35	124	215	5.64	0.57	6.4	6	5.06	552
A3436	<1	31	47	395	3.41	0.03	9.8	4	4.03	479
A3437	<1	237	48	2420	>15	0.03	13.1	15	2.59	315
A3438	<1	508	29	4940	>15	<0.01	8.7	1	1.39	642
A3439	<1	508	65	2750	>15	0.01	8.8	4	0.47	913
A3440	<1	49	26	115	1.43	0.01	1.2	<1	0.18	115
A3441	<1	33	25	243	3.29	0.07	3.0	5	1.00	253
A3442	<1	11	29	88.6	0.81	<0.01	<0.5	<1	<0.01	97
A3443	<1	13	23	130	1.63	<0.01	<0.5	<1	0.02	87
A3444	<1	259	28	333	3.59	0.01	5.5	2	0.48	207
A3445	<1	232	50	680	10.1	0.02	5.8	7	3.52	835
A3446	<1	940	27	2600	>15	<0.01	12.8	3	0.34	580
A3447	<1	2	45	9.2	0.27	0.23	16.7	1	0.11	53
A3448	<1	70	676	252	9.30	1.31	15.4	7	5.15	380

The data reported on this certificate of analysis represents the sample submitted to SGS Minerals Services. Reproduction of this analytical report, in full or in part, is prohibited without prior written approval.



Provisional : 08672. Order:

Element	Cd	Co	Cr	Cu	Fe	K	La	Li	Mg	Mn
Method	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B
Det.Lim.	1	1	1	0.5	0.01	0.01	0.5	1	0.01	2
Units	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM
A3449	<1	33	60	14.3	5.11	0.58	7.6	6	4.32	617
A3450	<1	26	131	37.2	4.70	1.00	13.3	8	4.12	471
A3451	<1	28	95	13.5	3.85	0.62	8.4	9	3.97	461
A3452	<1	47	113	175	5.15	0.79	9.4	9	4.61	535
A3453	<1	56	140	590	6.61	0.82	5.9	7	4.73	621
A3454	<1	54	113	602	6.59	0.83	6.2	7	4.85	623
A3455	<1	38	115	293	7.16	0.92	6.2	7	5.20	776
A3456	<1	41	121	229	6.80	0.58	6.9	8	4.57	928
A3457	<1	32	194	10.9	5.15	0.34	6.1	5	5.45	637
A3458	<1	35	237	11.3	5.56	0.48	6.2	5	5.86	705
A3459	<1	53	607	164	6.04	0.89	6.6	6	8.99	368
A3460	<1	55	306	161	4.74	0.77	24.3	5	6.90	314
A3461	1	42	118	78.3	6.61	0.44	6.1	7	4.70	1160
A3462	<1	40	121	60.9	6.40	0.47	6.4	7	4.41	1060
A3463	<1	38	83	92.3	6.66	0.44	6.4	7	4.26	1100
A3464	<1	41	102	103	7.08	0.46	6.3	6	4.45	1240
A3465	<1	45	101	162	7.04	0.43	5.7	5	4.55	1190
*Dup A3401	<1	440	31	1960	>15	0.01	1.1	2	0.40	50
*Dup A3413	<1	36	112	197	11.2	0.11	19.3	3	2.28	930
*Dup A3425	<1	41	47	578	6.31	0.26	9.6	3	3.74	521
*Dup A3437	<1	232	46	2540	>15	0.03	12.8	16	2.67	327
up A3449	<1	33	58	15.2	5.01	0.57	7.5	7	4.29	628
*Dup A3461	<1	42	113	79.9	6.82	0.45	5.7	7	4.72	1130

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Element Method Det.Lim. Units	Mo ICP40B 1 PPM	Na ICP40B 0.01 %	Ni ICP40B 1 PPM	P ICP40B 0.01 %	Pb ICP40B 2 PPM	Sb ICP40B 5 PPM	Sc ICP40B 0.5 PPM	Sn ICP40B 10 PPM	Sr ICP40B 0.5 PPM	Ti ICP40B 0.01 %
A3401	<1	0.02	3890	<0.01	18	<5	1.7	<10	2.7	<0.01
A3402	<1	1.89	16	0.01	3	<5	1.8	<10	39.9	<0.01
A3403	1	1.57	88	0.04	10	<5	8.6	<10	25.1	0.06
A3404	3	2.64	548	0.06	15	<5	2.7	30	11.2	<0.01
A3405	1	0.04	330	0.01	8	<5	<0.5	<10	3.0	<0.01
A3406	<1	0.04	99	<0.01	3	<5	<0.5	<10	2.6	<0.01
A3407	2	0.02	63	<0.01	4	<5	8.4	<10	12.7	<0.01
A3408	2	0.07	94	0.03	<2	<5	6.0	<10	4.9	<0.01
A3409	2	1.44	7	0.03	<2	<5	6.2	<10	7.1	<0.01
A3410	<1	0.15	134	0.05	6	<5	8.3	<10	279	0.20
A3411	<1	0.14	180	0.07	6	<5	8.1	<10	257	0.16
A3412	9	2.56	138	<0.01	3	<5	24.5	<10	61.5	0.26
A3413	3	2.01	116	0.03	4	<5	12.9	<10	145	0.21
A3414	4	0.44	521	0.09	10	<5	7.2	<10	84.4	0.13
A3415	2	0.37	533	0.05	9	<5	7.3	<10	46.4	0.14
A3416	2	0.39	153	<0.01	9	<5	7.2	<10	45.7	0.13
A3417	1	0.61	161	0.02	6	<5	7.3	<10	60.3	0.14
A3418	1	1.66	81	0.19	13	<5	9.7	<10	73.1	0.18
A3419	1	1.27	253	0.07	8	<5	7.8	<10	87.1	0.15
A3420	2	0.98	100	<0.01	6	<5	8.5	<10	71.6	0.22
A3421	3	1.65	239	0.03	8	<5	7.5	<10	47.6	0.21
A3422	<1	1.21	103	0.01	5	<5	7.1	<10	33.7	0.15
A3423	1	1.24	104	0.01	6	<5	7.5	<10	34.7	0.15
A3424	2	3.11	389	0.02	2	<5	37.3	<10	162	0.33
A3425	1	3.07	283	0.02	3	<5	36.2	<10	182	0.30
A3426	1	2.95	289	0.02	2	<5	35.9	<10	175	0.29
A3427	2	2.76	336	0.02	3	<5	35.0	<10	158	0.32
A3428	2	1.94	402	0.02	2	<5	31.0	<10	58.0	0.29
A3429	2	2.49	49	0.05	<2	<5	10.0	<10	48.4	0.23
A3430	3	2.00	52	0.05	3	<5	13.8	<10	43.6	0.24
A3431	3	5.95	122	0.02	3	<5	2.9	<10	12.9	0.07
A3432	2	5.60	49	0.04	2	<5	6.7	<10	14.7	0.04
A3433	3	6.17	13	0.04	3	<5	13.2	<10	17.5	0.05
A3434	2	2.03	494	0.02	2	<5	24.9	<10	69.9	0.20
A3435	1	3.06	200	0.03	3	<5	24.8	<10	108	0.22
A3436	2	1.75	116	0.17	3	<5	18.5	<10	20.4	0.01
A3437	2	2.04	1330	0.07	39	<5	22.2	<10	11.7	0.01
A3438	2	0.03	2670	0.05	49	<5	29.6	<10	9.9	<0.01
A3439	1	0.03	1100	0.04	157	<5	22.0	<10	3.4	<0.01
A3440	2	0.33	48	0.02	3	<5	2.7	<10	3.4	<0.01
A3441	2	2.12	74	0.05	3	<5	9.9	<10	12.0	0.02
A3442	<1	0.03	11	<0.01	<2	<5	<0.5	<10	1.4	<0.01
A3443	<1	0.03	19	<0.01	<2	<5	1.4	<10	1.3	<0.01
A3444	2	0.15	189	0.05	3	<5	6.4	<10	4.2	<0.01
A3445	2	0.81	984	0.11	27	<5	23.7	<10	16.1	<0.01
A3446	1	0.07	2520	0.01	88	<5	11.3	<10	2.1	<0.01
A3447	1	6.52	8	<0.01	3	<5	5.3	<10	12.9	0.03
A3448	2	1.67	305	0.03	3	<5	32.0	<10	39.4	0.27

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Element	Mo	Na	Ni	P	Pb	Sb	Sc	Sn	Sr	Ti
Method	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B
Det.Lim.	1	0.01	1	0.01	2	5	0.5	10	0.5	0.01
Units	PPM	%	PPM	%	PPM	PPM	PPM	PPM	PPM	%
A3449	1	2.76	123	0.01	<2	<5	29.2	<10	154	0.22
A3450	1	3.73	88	0.02	3	<5	23.8	<10	154	0.20
A3451	2	3.91	90	0.02	4	<5	22.5	<10	156	0.16
A3452	1	3.42	265	0.02	3	<5	32.6	<10	131	0.23
A3453	1	3.14	416	0.01	3	<5	30.9	<10	107	0.22
A3454	1	3.15	434	0.01	5	<5	32.5	<10	109	0.23
A3455	1	3.12	300	0.01	5	<5	29.0	<10	134	0.22
A3456	<1	2.21	164	0.01	4	<5	30.2	<10	158	0.23
A3457	1	2.85	156	<0.01	<2	<5	33.4	<10	134	0.17
A3458	1	2.27	160	0.01	<2	<5	34.7	<10	128	0.20
A3459	2	2.15	351	<0.01	<2	<5	26.4	<10	49.0	0.17
A3460	2	2.83	345	0.07	<2	<5	19.5	<10	33.6	0.09
A3461	2	1.95	138	0.02	4	<5	34.0	<10	165	0.26
A3462	<1	1.82	133	0.01	4	<5	31.1	<10	162	0.26
A3463	1	2.15	117	0.02	4	<5	29.7	<10	179	0.27
A3464	1	1.79	128	0.01	7	<5	30.8	<10	175	0.28
A3465	2	1.82	158	0.01	5	<5	32.4	<10	179	0.27
*Dup A3401	<1	0.02	4210	<0.01	17	<5	1.9	<10	3.3	<0.01
*Dup A3413	3	2.07	117	0.03	4	<5	12.7	<10	155	0.21
*Dup A3425	2	3.06	291	0.02	2	<5	38.1	<10	179	0.30
*Dup A3437	1	2.05	1320	0.07	38	<5	22.3	<10	12.5	<0.01
up A3449	1	2.81	122	0.01	2	<5	28.8	<10	153	0.22
*Dup A3461	1	2.00	133	0.02	5	<5	33.7	<10	167	0.27

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Provisional : 086722 Order.

Element Method Det.Lim.	V	W	Y	Zn	Zr	Cu	Fe
	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICA50	ICA50
Units	PPM	PPM	PPM	PPM	PPM	%	%
A3401	24	<10	1.1	5.4	4.0	N.A.	32.8
A3402	7	<10	1.7	4.1	28.6	N.A.	N.A.
A3403	47	<10	4.3	17.4	74.0	1.38	N.A.
A3404	14	<10	6.1	37.7	65.0	3.48	N.A.
A3405	<2	<10	0.6	86.9	1.3	N.A.	N.A.
A3406	<2	<10	0.5	22.4	0.7	N.A.	N.A.
A3407	9	<10	7.2	47.9	0.7	N.A.	N.A.
A3408	6	<10	3.4	2.6	6.0	N.A.	N.A.
A3409	6	<10	2.5	4.3	12.8	N.A.	N.A.
A3410	79	<10	15.9	14.7	45.1	N.A.	16.7
A3411	68	<10	13.8	13.0	45.1	N.A.	18.5
A3412	218	<10	10.1	13.9	69.9	N.A.	N.A.
A3413	89	<10	17.5	15.6	79.7	N.A.	N.A.
A3414	36	<10	21.7	16.0	83.2	N.A.	20.4
A3415	61	<10	17.8	17.1	70.3	N.A.	22.8
A3416	63	<10	12.8	15.6	54.5	N.A.	26.8
A3417	63	<10	15.0	13.5	64.5	N.A.	18.5
A3418	130	<10	52.8	15.4	89.2	N.A.	N.A.
A3419	72	<10	27.7	12.3	76.8	N.A.	15.2
A3420	25	<10	16.0	16.2	124	N.A.	19.5
A3421	46	<10	19.3	14.8	105	N.A.	18.2
A422	54	<10	16.3	16.4	81.8	N.A.	17.4
A3423	56	<10	17.3	16.7	87.8	N.A.	17.4
A3424	251	<10	12.1	16.0	35.9	N.A.	N.A.
A3425	250	<10	11.8	16.0	33.4	N.A.	N.A.
A3426	254	<10	11.3	16.2	29.8	N.A.	N.A.
A3427	250	<10	12.5	16.1	40.2	N.A.	N.A.
A3428	215	<10	10.3	16.9	45.8	N.A.	N.A.
A3429	80	<10	16.3	5.5	156	N.A.	N.A.
A3430	95	<10	20.8	10.0	104	N.A.	N.A.
A3431	62	<10	7.8	8.5	319	N.A.	N.A.
A3432	60	<10	5.8	59.3	173	N.A.	N.A.
A3433	80	<10	10.4	6.8	160	N.A.	N.A.
A3434	170	<10	8.1	26.2	49.4	N.A.	N.A.
A3435	170	<10	7.8	22.3	37.4	N.A.	N.A.
A3436	32	<10	10.5	4.0	35.4	N.A.	N.A.
A3437	34	<10	14.5	4.3	62.8	N.A.	14.6
A3438	19	<10	11.5	5.5	2.0	N.A.	21.7
A3439	43	10	7.0	4.8	3.8	N.A.	29.9
A3440	5	<10	1.6	15.2	6.3	N.A.	N.A.
A3441	26	<10	4.3	3.6	44.1	N.A.	N.A.
A3442	<2	<10	<0.5	1.5	0.7	N.A.	N.A.
A3443	<2	<10	0.6	6.2	0.6	N.A.	N.A.
A3444	11	<10	3.9	10.3	6.5	N.A.	N.A.
A3445	35	<10	11.0	5.9	29.9	N.A.	N.A.
A3446	11	<10	12.2	4.6	8.9	N.A.	19.7
A3447	89	<10	4.2	2.3	187	N.A.	N.A.
A3448	245	<10	11.7	20.3	61.7	N.A.	N.A.

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Provisional : 086722 Order:

Element	V	W	Y	Zn	Zr	Cu	Fe
Method	ICP40B	ICP40B	ICP40B	ICP40B	ICP40B	ICA50	ICA50
Det.Lim.	2	10	0.5	0.5	0.5	0.01	0.01
Units	PPM	PPM	PPM	PPM	PPM	%	%
A3449	193	<10	10.2	24.5	43.3	N.A.	N.A.
A3450	164	<10	9.2	23.2	66.8	N.A.	N.A.
A3451	150	<10	8.4	22.4	42.5	N.A.	N.A.
A3452	216	<10	10.0	32.1	38.4	N.A.	N.A.
A3453	213	<10	8.5	25.5	32.1	N.A.	N.A.
A3454	221	<10	8.8	24.8	35.9	N.A.	N.A.
A3455	189	<10	8.0	28.9	35.9	N.A.	N.A.
A3456	203	<10	9.8	36.5	35.9	N.A.	N.A.
A3457	213	<10	8.4	20.7	34.3	N.A.	N.A.
A3458	225	<10	9.2	25.3	34.9	N.A.	N.A.
A3459	175	<10	6.5	21.0	41.5	N.A.	N.A.
A3460	116	<10	10.5	12.7	93.3	N.A.	N.A.
A3461	225	<10	10.9	61.8	35.1	N.A.	N.A.
A3462	214	<10	10.5	63.5	35.2	N.A.	N.A.
A3463	207	<10	10.6	61.5	36.2	N.A.	N.A.
A3464	215	<10	10.5	74.3	34.7	N.A.	N.A.
A3465	222	<10	10.6	65.0	32.5	N.A.	N.A.
*Dup A3401	25	<10	1.2	5.3	4.2	N.A.	N.A.
*Dup A3413	86	<10	17.4	14.7	79.9	N.A.	N.A.
*Dup A3425	259	<10	12.5	15.8	34.5	N.A.	N.A.
*Dup A3437	33	<10	14.5	4.9	61.9	N.A.	N.A.
up A3449	186	<10	10.1	23.2	40.6	N.A.	N.A.
*Dup A3461	225	<10	10.6	59.3	34.1	N.A.	N.A.

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**APPENDIX D**

**WORKERS DAILY LOG OF ACTIVITIES**

**List of workers**  
**Argosy 2005 exploration project.**

**George katchan** 57 Labouchere Rd. South Perth, WA Australia.  
**Gordon Salo** 2005 Northshore Rd. Whitefish, Ontario  
**Frank Racicot** Box 592 Wahnapiatae, Ontario.  
**Lee Lentir** 10 Karla Rd. P.O. Box 17, Whitefish, Ontario  
**Luke Dunn** 521 St. Pothier Rd. Whitefish, Ontario.  
**Joshua Watson** 2064 Southlane Rd. Sudbury, Ontario.  
**Michael Parsons** 610 Howey Drive, Sudbury, Ontario.  
**Daniel Peltier** 644 Ironwood Rd. Sagamok P.O. Box 186, Massey, Ontario.  
**Mike Saikonen** 1123 Regional Rd. # 10 Whitefish, Ontario.  
**Thomas Ruth** 318 Fort Rd. Sagamok P.O. Box 302 Massey, Ontario.



Sept 21 2005	Bedrock washing, manual stripping	3 helpers	Boundary prospect	1179288	3
Sept 22 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1179288	1
Sept 22 2005	Bedrock washing, manual stripping	3 Helpers	Boundary prospect	1179288	3
Sept 23 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1179288	1
Sept 23 2005	Bedrock washing, manual stripping	3 helpers	Boundary prospect	1179288	3
Sept 24 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1179288	1
Sept 24 2005	Bedrock washing, manual stripping	1 helper	Boundary prospect	1179288	1
Sept 25 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1198467	1
Sept 26 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1198467	1
Sept 26 2005	Bedrock washing, manual stripping	3 helpers	Boundary prospect	1198467	3
Sept 27 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1198467	1
Sept 27 2005	Bedrock washing, manual stripping	3 helpers	Boundary prospect	1198467	3
Sept 28 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1198467	1
Sept 28 2005	Bedrock washing, manual stripping	3 helpers	Boundary prospect	1198467	3
Sept 29 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1198467	1
Sept 29 2005	Bedrock washing, manual stripping	3 helpers	Boundary prospect	1198467	3
Sept 30 2005	Bedrock washing, manual stripping	3 helpers	Boundary prospect	1198467	3
Oct 02 2005	Bedrock washing, manual stripping	G.Salo	Boundary prospect	1198467	1
Oct 05 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1198467	1
Oct 05 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1198467	2
Oct 06 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1198467	2
Oct 07 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1198467	1
Oct 07 2005	Bedrock washing, manual stripping	1 helper	Boundary prospect	1198467	1
Oct 08 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1198467	1
Oct 09 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1197247	1
Oct 09 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1198467	2
Oct 10 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1197247	1
Oct 10 2005	Bedrock washing, manual stripping	1 helper	Boundary prospect	1198467	1
Oct 11 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1197247	1
Oct 11 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1198467	2
Oct 12 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1198467	2
Oct 13 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1198467	2
Oct 14 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1198467	2
Oct 15 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1197247	1
Oct 15 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1179288	2
Oct 17 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1179288	2
Oct 17 2005	Trip into Town pickup supplies, prospecting equipment, George.	G.Salo	Boundary prospect	1179288	1
Oct 18 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1179288	2
Oct 18 2005	Norwest claim prospecting	G.Salo	Norwest prospect	1117800	Filed earlier
Oct 19 2005	Bedrock washing, manual stripping	1 helper	Boundary prospect	1179288	1
Oct 19 2005	Little Panache claim prospecting	G.Salo	Little Panache pros	1118145 & 6	1
Oct 20 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1179288	2
Oct 20 2005	Prospecting Boundary Prospect area	G.Salo	Boundary prospect	1179288	1
Oct 21 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1179288	2
Oct 21 2005	Prospecting Brazil Lake Prospect area	G.Salo	Brazil Lk. Prospect	1214966	1
Oct 22 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1179288	2
Oct 22 2005	Bedrock washing, manual stripping	G.Salo	Boundary prospect	1179288	1
Oct 23 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1197247	1
Oct 23 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1179288	2
Oct 24 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1197247	1
Oct 24 2005	Bedrock washing, manual stripping	1 helper	Boundary prospect	1179288	1
Oct 25 2005	Bedrock washing, manual stripping	1 helper	Boundary prospect	1179288	1
Oct 26 2005	Bedrock washing, manual stripping	3 helpers	Boundary prospect	1179288	3
Oct 27 2005	Bedrock washing, manual stripping	G.Salo	Boundary prospect	1179288	1
Oct 27 2005	Bedrock washing, manual stripping	3 helpers	Boundary prospect	1179288	3
Oct 28 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1197247	1
Oct 28 2005	Bedrock washing, manual stripping	3 helpers	Boundary prospect	1179288	3
Oct 29 2005	JSW Excavator, access trail clearing	G.Salo	Boundary prospect	1198468	1
Oct 29 2005	Bedrock washing, manual stripping	4 helpers	Boundary prospect	1197247	4
Oct 30 2005	JSW Excavator, access trail clearing	G.Salo	Boundary prospect	1198468	1
Oct 30 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1197247	2
Oct 31 2005	Bedrock washing, manual stripping	4 helpers	Boundary prospect	1197247	4
Nov 01 2005	Bedrock washing, manual stripping	4 helpers	Boundary prospect	1179288	4
Nov 02 2005	Bedrock washing, manual stripping	4 helpers	Boundary prospect	1179288	4
Nov 03 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1197247	1
Nov 03 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1179288	2
Nov 03 2005	Channel sample diamond saw cutting	1 helper	Boundary prospect	1179288	1
Nov 04 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1197247	1
Nov 04 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1179288	2
Nov 04 2005	Channel sample diamond saw cutting	1 helper	Boundary prospect	1179288	1

Nov 03 2005	Channel sample diamond saw cutting	1 helper	Boundary prospect	1179288	1
Nov 04 2005	JSW Excavator, access trail clearing, stripping bedrock	G.Salo	Boundary prospect	1197247	1
Nov 04 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1179288	2
Nov 04 2005	Channel sample diamond saw cutting	1 helper	Boundary prospect	1179288	1
Nov 05 2005	JSW Excavator, access trail clearing	G.Salo	Boundary prospect	1198468	1
Nov 05 2005	Channel sample diamond saw cutting	1 helper	Boundary prospect	1179288	1
Nov 07 2005	JSW Excavator, access trail clearing	G.Salo	Boundary prospect	1198468	1
Nov 07 2005	Channel sample diamond saw cutting	1 helper	Boundary prospect	1179288	1
Nov 07 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1197247	2
Nov 08 2005	Channel samples transport out of site	G.Salo	Boundary prospect	1179288	1
Nov 08 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1197247	2
Nov 09 2005	Channel sample diamond saw cutting and transport samples	G.Salo	Boundary prospect	1198471	1
Nov 09 2005	Channel sample diamond saw cutting	1 helper	Boundary prospect	1198471	1
Nov 09 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1197247	2
Nov 10 2005	Channel sample diamond saw cutting and transport samples	G.Salo	Boundary prospect	1198467	1
Nov 10 2005	Channel sample diamond saw cutting	1 helper	Boundary prospect	1198467	1
Nov 10 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1197247	2
Nov 11 2005	Channel sample diamond saw cutting and transport samples	G.Salo	Area "A" prospect	943594 & 5	1
Nov 11 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1197247	2
Nov 12 2005	Prospecting Brazil lake property	G.Salo	Brazil L.k. Prospect	1241716	1
Nov 14 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1197247	2
Nov 14 2005	Channel sample diamond saw cutting	1 helper	Boundary prospect	1198467	1
Nov 14 2005	Prospecting Sawmill Bay prospect area	G.Salo	Sawmill Bay prosp	1198475	1
Nov 15 2005	Bedrock washing, manual stripping	2 helpers	Boundary prospect	1197247	2
Nov 15 2005	Channel sample diamond saw cutting	1 helper	Boundary prospect	1197247	1
Nov 17 2005	Collect & transport out last samples and deliver to assay lab in Garson	G.Salo	Boundary prospect	1197247	1
Nov 19 2005	Gather up equipment and materials transport back to shop	G.Salo	Boundary prospect	1197247	1
Nov 19 2005	Gather up equipment and materials transport back to shop	1 helper	Boundary prospect	1197247	1
Nov 20 2005	Gather up equipment and materials transport back to shop	G.Salo	Boundary prospect	1197247	1
Nov 20 2005	Gather up equipment and materials transport back to shop	1 helper	Boundary prospect	1197247	1

**Total days** 245



**George Katchan**  
**B.Sc (Hons) Ph.D. M.Aus.IMM**

Qualified exploration geologist with over 25 years experience, 12 years of which have involved international assignments. Acquiring broad technical knowledge experienced in a variety of commodities including but not limited to gold, copper, nickel, pgms, diamonds and zinc with exploration and evaluation projects in the USA, Australia, Canada, Mexico, Ukraine, Romania, The Democratic Republic of the Congo, South Africa, Indonesia and New Caledonia.

An active member of the Geological Society of Australia, the Australasian Institute of Mining and Metallurgy, the Society of Economic Geologists and the Association of Exploration Geochemists.

Holding a Bachelor of Science (Honors) from Sydney University and awarded a Ph.D in geology from Sydney University upon completion of a thesis on the Mineralogy and Geochemistry of the Ertzberg East Skarns in Irian Jaya Indonesia and the Ok Tedi Skarns in Papua New Guinea.

Prior to joining Argosy Minerals Inc. as Exploration Manager for the company, having worked for Anglo American, Battle Mountain Gold Company, Billiton and various subsidiaries of Exxon Corporation. During this period progressing from Senior Minerals Geologist to Country Manager for Indonesia, and responsible for regional & prospect exploration programs, and project generation in Indonesia, Papa New Guinea, Queensland and elsewhere in South East Asia.

**Prospecting, Sampling Daily Log**

George Katchan  
 B.sc (Hons) Ph.D. M.Aus.IMM  
 Exploration Manager / Geologist  
 Argosy Minerals

<u>Date</u>	<u>Activity</u>	<u>Worker</u>	<u>Location</u>	<u>Claim Number</u>	<u>Total Days</u>
Oct 18 2005	Prospecting, mapping sample locations	G. Katchan	Norwest prospect	1117800	Filed earlier
Oct 19 2005	Prospecting, mapping sample locations	G. Katchan	Little Panache prospect	1118145, 1118146	1
Oct 20 2005	Prospecting, mapping sample locations	G. Katchan	Boundary prospect	1179288	1
Oct 21 2005	Prospecting, mapping, sample locations	G. Katchan	Brazil Lake prospect	1214966	1
Oct 22 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1179288	1
Oct 23 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1179288	1
Oct 24 2005	Compiled data, maps of trenches at office	G. Katchan	Brazil Lake prospect	1214966	1
Oct 25 2005	Compiled data, maps of trenches at office	G. Katchan	Boundary prospect	1179288	1
Oct 26 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1179288	1
Oct 27 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1198471	1
Oct 28 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1179288	1
Oct 29 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1198472	1
Oct 30 2005	Compiled data, maps of trenches at office	G. Katchan	Boundary prospect	1198472	1
Oct 31 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1198472	1
Nov 01 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1198472	1
Nov 02 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1197247	1
Nov 03 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1179288	1
Nov 04 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1179288	1
Nov 05 2005	Prospecting, mapping, sample locations	G. Katchan	Boundary prospect	1179288	1
Nov 06 2005	Compiled data, maps of trenches at office	G. Katchan	Boundary prospect	1179288	1
Nov 07 2005	Trench channel sampling	G. Katchan	Boundary prospect	1179288	1
Nov 08 2005	Trench channel sampling	G. Katchan	Boundary prospect	1179288	1
Nov 09 2005	Trench channel sampling	G. Katchan	Boundary prospect	1198467	1
Nov 10 2005	Prospect Area "A"	G. Katchan	Area "A" prospect	943594 & 943595	1
Nov 11 2005	Trench channel sampling	G. Katchan	Boundary prospect	1198467	1
Nov 12 2005	Prospecting, mapping, sample locations	G. Katchan	Brazil Lake prospect	1241716	1
Nov 13 2005	Compiled data, maps of trenches at office	G. Katchan	Boundary prospect	1179288	1
Nov 14 2005	Prospecting, mapping, sample locations	G. Katchan	Sawmill Bay prospect	1198475	1
Nov 15 2005	Trench channel sampling	G. Katchan	Boundary prospect	1197247	1
Nov 16 2005	Samples to lab, Flight to TO & Australia	G. Katchan	Boundary prospect	1197247	1
Feb 14 2006	Assay compilation; map preparation	G. Katchan	Sawmill Bay prospect	1198475, 1231351	1
Feb 15 2006	Assay compilation; map preparation	G. Katchan	Boundary prospect	1179288	1
Feb 16 2006	Assay compilation; map preparation	G. Katchan	Brazil Lake prospect	1241716, 1214966	1
Feb 17 2006	Assay compilation; map preparation	G. Katchan	Boundary prospect	1179288	1
Sept 4 2006	Map and report preparation	G. Katchan	Boundary prospect	1179288	1
Sept 5 2006	Map and report preparation	G. Katchan	Boundary prospect	1198471	1
Sept 6 2006	Map and report preparation	G. Katchan	Boundary prospect	1198472	1
Sept 7 2006	Map and report preparation	G. Katchan	Brazil Lake prospect	1241716	1
Sept 8 2006	Map and report preparation	G. Katchan	Sawmill Bay prospect	1198475, 1231351	1
Sept 11 2006	Map and report preparation	G. Katchan	Sawmill Bay prospect	1198475	1
Sept 12 2006	Map and report preparation	G. Katchan	Area "A" prospect	943594, 943595	1
Sept 13 2006	Map and report preparation	G. Katchan	Little Panache prospect	1118145, 1118146	1
Sept 14 2006	Map and report preparation	G. Katchan	Boundary prospect	1198467	1
Sept 15 2006	Map and report preparation	G. Katchan	Boundary prospect	1197247	1

Total 42

**Prospecting, Sampling Daily Log**

Frank Racicot, P. Geologist

<u>Date</u>	<u>Activity</u>	<u>Worker</u>	<u>Location</u>	<u>Claim Number</u>
Oct 12 2005	Arranged supplies, transport for Brazil Lk.	F. Racicot	Brazil lake prospect	1214966
Oct 13 2005	Prospecting, mapping sample locations	F. Racicot	Brazil lake prospect	1214966
Oct 14 2005	Prospecting, mapping sample locations	F. Racicot	Brazil lake prospect	1214966
Oct 15 2005	Prospecting, mapping sample locations	F. Racicot	Brazil lake prospect	1241716
Oct 16 2005	Prospecting, mapping sample locations	F. Racicot	Brazil lake prospect	1241716
Oct 16 2005	Prospecting, mapping sample locations	F. Racicot	Brazil lake prospect	1241716
Oct 17 2005	Prospecting, mapping sample locations	F. Racicot	Brazil lake prospect	1241716
Oct 18 2005	Arranged boat, logistics for Sawmill bay	F. Racicot	Sawmill Bay prospect	1231351
Oct 19 2005	Prospecting, mapping sample locations	F. Racicot	Sawmill Bay prospect	1231351
Oct 20 2005	Prospecting, mapping sample locations	F. Racicot	Sawmill Bay prospect	1231351
Oct 24 2005	Prospecting, mapping sample locations	F. Racicot	Sawmill Bay prospect	1198475
Oct 25 2005	Prospecting, mapping sample locations	F. Racicot	Sawmill Bay prospect	1198475
Oct 26 2005	Prospecting, mapping sample locations	F. Racicot	Sawmill Bay prospect	1198475
Oct 27 2005	Prospecting, mapping sample locations	F. Racicot	Sawmill Bay prospect	1198475
Oct 28 2005	Prospecting, mapping sample locations	F. Racicot	Sawmill Bay prospect	1198475
Oct 29 2005	Prospecting, mapping sample locations	F. Racicot	Sawmill Bay prospect	1198475
Oct 30 2005	Prospecting, mapping sample locations	F. Racicot	Sawmill Bay prospect	1214921
Oct 31 2005	Prospecting, mapping sample locations	F. Racicot	Sawmill Bay prospect	1197245
Nov 01 2005	Draft maps, sample descriptions etc.	F. Racicot	Brazil & Sawmill pros	all above

**Work Area Totals**

Brazil Lake property	7.5 days
Sawmill Bay area	11.5 days
Total Days for Frank Racicot	<b>19 days</b>

**APPENDIX E**

**EQUIPMENT**

# BH80E

**FULLY HYDRAULIC EXCAVATOR** 0.82cubic meter  
(1.06cubic yard)  
(SAE HEAPED RATING)

**The need for an excavator,  
the need for JSW.**

LC<Long-crawler>-type is also available.

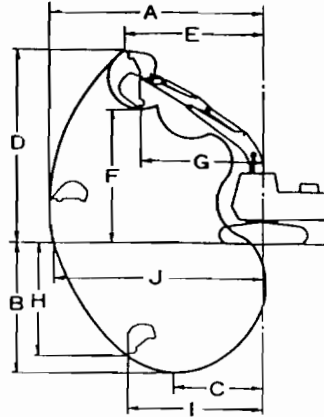


**JSW**  
**JAPAN STEEL WORKS**

# SPECIFICATIONS

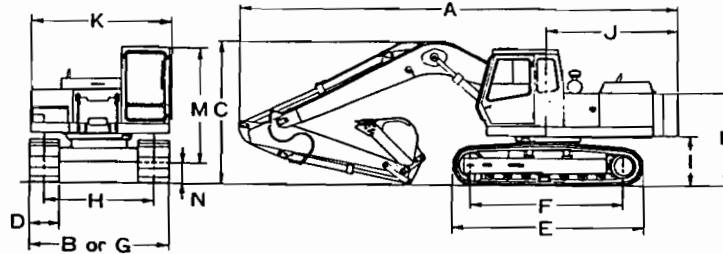
The specifications are subject to change without prior notice.

## WORKING RANGE



	Unit: mm (ft-in.)		
Arm length	2150 (7-3/4)	2800 (9-2-1/2)	3450 (11-3-3/4)
A Maximum reach	9140 (30-0)	9770 (32-1)	10380 (34-1)
B Maximum digging depth	5865 (19-3)	6515 (21-5)	7160 (23-6)
C Radius of bucket teeth at maximum digging depth	3985 (13-1)	3985 (13-1)	3985 (13-1)
D Overall height at end of dump	5840 (29-0)	9305 (30-6)	9620 (31-7)
E Radius of bucket teeth at end of dump	740 (18-10)	6100 (20-0)	6670 (21-11)
F Clearance of bucket teeth from grade at beginning of dump	6040 (19-10)	6410 (21-0)	6725 (22-1)
G Radius of bucket at beginning of dump	4935 (16-2)	5475 (18-0)	6040 (19-10)
H Maximum depth of vertical wall	5270 (17-4)	5970 (19-7)	6610 (21-8)
I Radius of bucket teeth at maximum depth of vertical wall	5920 (19-5)	5680 (18-8)	5795 (19-0)
J Maximum reach at grade level	8960 (29-5)	9600 (31-6)	10215 (33-6)
Break-out force (bucket cylinder)	kg (lb)	1300 (2910)	11300 (24910)
Crowd force (arm cylinder)	kg (lb)	10700 (23590)	8800 (19400)
		7650 (16860)	

## DIMENSIONS



	Unit: mm (ft-in.)		
Arm length	2150 (7-3/4)	2800 (9-2-1/2)	3450 (11-3-3/4)
A Shipping length	9180 (30-1)	9080 (29-10)	9120 (29-11)
B Shipping width	2850 (9-4-1/2) * 2900 (9-6)		
C Shipping height	3010 (9-10)	2980 (9-9)	2840 (9-4)
D Width of crawler shoes	600 (24 in)		
E Overall length of crawlers	4100 (13-6)	* 4350 (14-3-3/4)	
F Wheelbase	3295 (10-10)	* 3550 (11-7-3/4)	
G Overall width of crawlers	2780 (9-1-3/4)	* 2900 (9-6-3/4)	
H Track gauge	2180 (7-1-3/4)	* 2300 (7-6-3/4)	
I Distance under counterweight to grade	1040 (3-5)		
J Swing clearance	2700 (8-10-3/4)		
K Width of upper structure	2830 (9-3)		
L Height of engine room above crawler base to grade	1930 (6-4)		
M Height of cab above grade	2870 (9-5)		
N Minimum clearance under crawler base to grade	440 (1-5-3/4)		

Swing speed	rpm	12	
Travel speed	km/h (mph)	4.0 (2.5) * 3.6 (2.2)	
Gradeability	% (deg)	70 (35)	
Ground pressure	kg/cm <sup>2</sup> (psi)	0.46 (6.54) * 0.42 (5.97)	
Fully equipped weight	kg (lb)	19000 (41890) * 19600 (43210)	
Engine	Model	MITSUBISHI	
	Type	BF6L913	
	Output (SAE)	HP/rpm	133/2000
Hydraulic pump	Type	2-position, Variable	
	Max. pressure	kg/cm <sup>2</sup> (psi)	320 (4550) * 220 (3130) Swing
Hydraulic tank capacity	liter (U.S. gallon)	216 (57)	
Fuel tank capacity		300 (79)	

### Shoe & Ground Pressure

	Unit: kg/cm <sup>2</sup> (psi)	
600 mm triple grouser (STD)	0.44 (6.25)	* 0.42 (5.97)
600 mm flat	0.45 (6.40)	* 0.43 (6.12)
800 mm triple grouser	0.34 (4.83)	* 0.33 (4.69)
800 mm triangle	0.33 (4.69)	* 0.32 (4.55)

\* mark JH86ELC specifications.

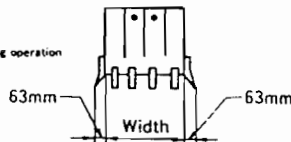
## FRONT-END ATTACHMENTS

NOTE 1:

- Standard combination
- Available
- Not available
- For loading or light-duty digging operation
- ⊔ Applicable to LC type

NOTE 2:

Width of bucket



Item	Capacity cu m (cu yd)		Width mm (in.) Note 2	Availability of Combinations Note 1					
	1/1 Heaped (SAE)	Struck		2.15 m Arm		2.8 m Arm		3.45 m Arm	
Bucket				Backhoe	Shovel	Backhoe	Shovel	Backhoe	Shovel
0.58 bucket	0.58 (0.76)	0.43 (0.56)	896 (35)	○(○)	○(○)	○(○)	○(○)	●(●)	●(●)
0.82 bucket	0.82 (1.06)	0.58 (0.76)	1141 (45)	○(○)	○(○)	○(○)	○(○)	□(□)	—
0.82 bucket (S-type)	0.82 (1.06)	0.58 (0.76)	1029 (40)	●(●)	●(●)	—	—	—	—
0.94 bucket	0.94 (1.22)	0.66 (0.86)	1265 (50)	□(□)	□(□)	□(□)	—	□(□)	—
1.06 bucket	1.06 (1.39)	0.73 (0.95)	1385 (54)	□(□)	□(□)	□(□)	—	—	—
1.38 bucket	1.38 (1.80)	1.01 (1.32)	1370 (54)	□(□)	—	—	—	—	—

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 PHONE: (1-6) 878-8839/8830 TELEX 06-961115



Specifications		<b>8 MAGNUM</b>	
Engine	Kohler Magnum, twin cylinder, 4 cycle, forced air cooled, electronic ignition, full pressure oil lubrication, 2 year limited warranty.		
Brakes	Hydraulic disc brakes.		
Final Drive System	Double RC 5D roller chain from transmission to idler shafts.		
Electrical System	12 volt, key-operated electric start system. Manual pull rope backup. Automotive-sized battery rated at 245 cranking amps at 0°F.		
Speed	Quartz-halogen headlights.		
Seating/Load Capacity	Land - 32 km/h (20 mph) Water - 3 km/h (2 mph)	Land - 29 km/h (18 mph) Water - 3 km/h (2 mph)	
Ground Pressure (max. load)	Tires	Land - 4 persons or 327 kg (700 lbs.) Water - 2 adults	Land - 6 persons or 454 kg (1,000 lbs.) Water - 4 adults
	Tracks	Rear compartment - 63 kg (140 lbs.)	
Vehicle Weight	158 kg/cm <sup>2</sup> (2.2 psi)	150 kg/cm <sup>2</sup> (2.1 psi)	
Transmission	.050 kg/cm <sup>2</sup> (0.71 psi)	.047 kg/cm <sup>2</sup> (0.67 psi)	
Clutch	385 kg (850 lbs.)		
Fuel Capacity	443 kg (975 lbs.)		
Suspension/Tires	2 speeds forward, neutral & reverse, compactly housed with an efficient planetary differential		
Body	Belt-driven variable speed torque converters, engineered to guarantee maximum performance from the engine & transmission.		
Frame	Sea-thru polyethylene fuel tank, 32 litres (7.0 Imperial gallons / 8.4 U.S. gallons)		
Steering and Controls	Goodyear 'Runamuk' low pressure, shock absorbing 20 x 11:00 - 8 NHS.		
Dimensions	Vacuum-formed, high-density polyethylene.		
	11 gauge roll-formed steel channel, welded for strength & flexibility, 18 gauge steel full-length centre panel for added strength & support. Polyester powder coated.		
	Two hand-operated levers activate brakes to turn or stop. Hand operated twist-grip throttle, dash mounted choke control. A skid steer vehicle		
	<p style="text-align: center;">8 WD Models</p>		



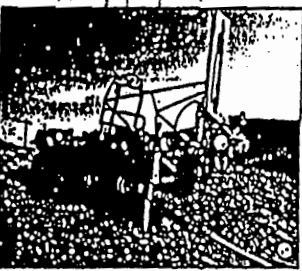
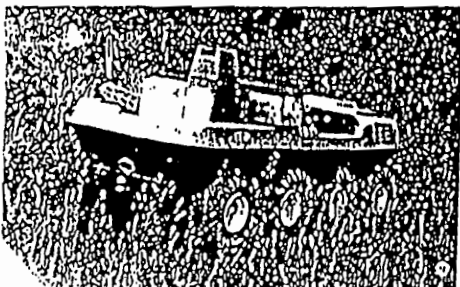
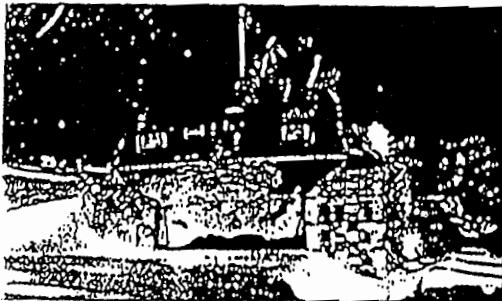
World leader in off-road amphibious 6 & 8WD vehicles. Your Argo retailer is:  
 Ontario Drive & Gear Limited  
 P.O. Box 280, Bleams Road  
 New Hamburg, Ontario  
 Canada N0B 2G0  
 TELEPHONE: (519) 662-2840  
 TEL: 069-55426  
 FAX: 519-662-2421

**ALLEN A.T.V. SALES**  
**RED DEER LAKE RD. N.**  
**WAHNAPIAEC, ONT.**  
**705-694-5400**

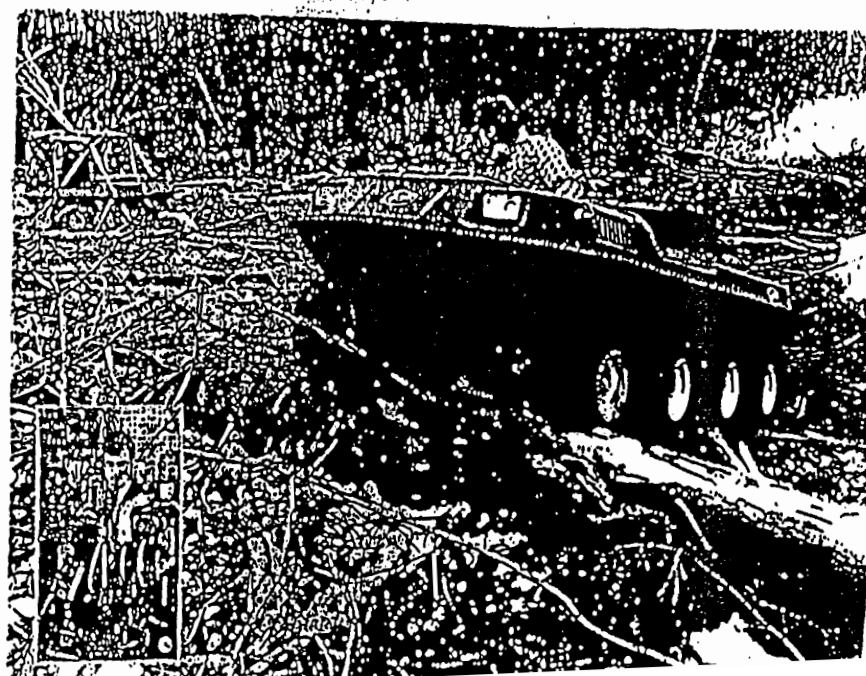
WARNING



*The off-road workhorse.*

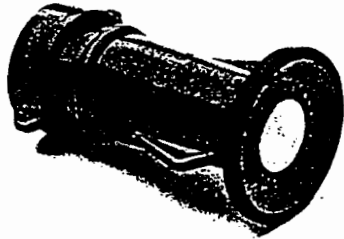


- 17. Equipped with Super Tracks, Argo is ideal for search and rescue or providing emergency relief. Fuel efficient. It can run at 60 mph.
- 18. The standard three design makes Argo ideal for road carrying and rugged terrain and through marshes. Best seat plans and optional seats.
- 19. The versatility of Argo around the farm or orchard is highlighted by hooking on a load trailer for hauling bulk loads.
- 20. Gasoline-powered, but also Argo is available for powered by propane in Denmark. A function as a mobile alarm system for detecting gas leaks.
- 21. Lightweight, Argo can be loaded onto the trailer of a heavy-duty truck and rescue operations.
- 22. & 23. Transporting Argo is a simple operation. It fits in the back of a pickup truck or on a regular utility truck.
- 24. Argo offers strength and dependability. Available in 4x4, 6x6, and 8x8. Argo is built with a premium stainless steel.





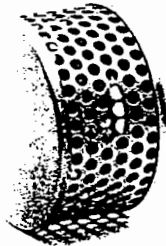
## High Pressure Pump



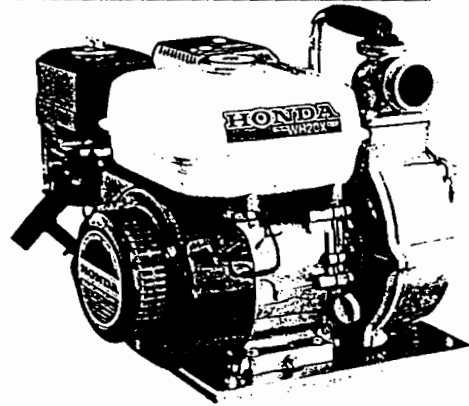
*Spray nozzle*



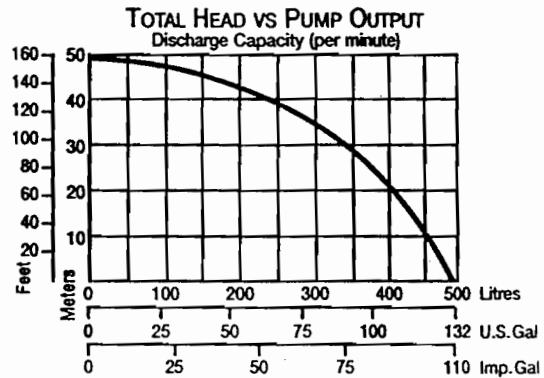
*Suction (A) and Discharge (B) hose*



*Suction hose strainer*

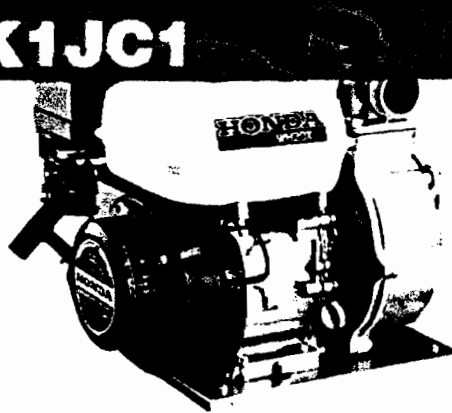


**WH20X** – This is a high output, high pressure pump with a strong 5.5HP OHV engine, with 50 mm (2") ports and a maximum capacity of 500 litres per minute.



HONDA  
Power  
Equipment

## WH20XK1JC1



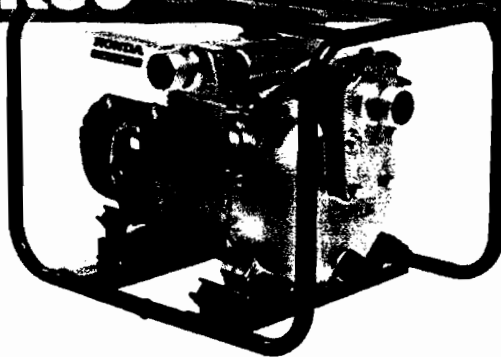
### ***Model Overview & Features***

The WH20XK1C1 is a 2 inch (50 mm) high output, high pressure pump that can perform a multitude of duties from general water transfer to irrigation or it can even be used with a fire hose nozzle for emergency back-up in remote areas. It is powered by a Honda 5.5HP OHV engine for dependable starts and long life.

Maximum capacity is 500 litres per minute, convenient carry handle and hose strainer are standard.

HONDA  
Power  
Equipment

## WT20XK3C



### ***Model Overview & Features***

The WT20XK3C is a 2 inch (50 mm) trash pump and is designed specifically for the commercial user. Featuring a heavy duty, deep-vane impeller and an extra-thick cast aluminum pump housing, it is capable of pumping water containing rocks and debris. An easy access door is also standard so that the pump housing can be easily flushed. The WT20 is powered by a commercial grade GX160 5.5HP OHV Honda engine for dependable starts and long life. Pumping capacity is 650 litres per minute.

Other standard features include a tubular steel frame and Oil Alert™.

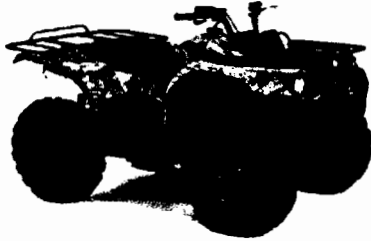


#### **GPSMAP 76C Features:**

- WAAS-enabled, 12 parallel channel GPS receiver
- Built-in quad-helix antenna with remote antenna capability
- 115-MB internal memory for loading MapSource detail, including marine cartography
- USB connectivity for quick chart and map downloads
- 6.2" H x 2.7" W x 1.4" D unit dimensions
- Sunlight-readable display with 256-color transreflective TFT display (1.5" W x 2.2" H; 2.6" diagonally); color operating system with new look-and-feel
- Weighs 7.6 ounces (with batteries)
- LED-backlit display and keypad
- Up to 30 hours battery life (uses two AA alkaline batteries)
- Permanent user-data storage; no memory battery required
- Includes a built-in Americas Autoroute basemap with auto-routing capabilities, including highways, exits, and tide data (U.S. only)
- Internal memory is pre-loaded with a Marine Point database
- Water resistant to IEC 60529 IPX7 standards (can be submerged in one meter of water for 30 minutes); rugged and waterproof housing that floats
- 1000 user waypoints with name and graphic symbol; 50 reversible routes
- Position formats include Lat/Lon, UTM, Loran TDs, Maidenhead, MGRS, user grid, and more
- Audible alarms for anchor drag, arrival, off-course, proximity waypoint, and clock
- Large-numbers option for easy viewing; dual-position display mode
- Trip computer provides odometer, stopped time, moving average, overall average, total time, max speed, and more
- 10,000 point automatic track log; 20 saved tracks let you retrace your path in both directions
- Built-in celestial tables for best time to fish, plus sun and moon calculations
- Compatible with most MapSource products. See the MapSource Compatibility table (top right) for a list of software that Garmin recommends with this product.

## ATV 4x4

### Specifications



#### Engine

Type	401cc liquid-cooled w/fan, SOHC 4-stroke single
Bore x Stroke	84.5mm x 71.5mm
Compression Ratio	10.5:1
Carburetion	Mikuni 33mm BSR
Ignition	DC-CDI
Starting System	Electric w/auxiliary pull
Transmission	Yamaha Ultramatic® V-belt/F, N, R
Engine Braking	Front & rear wheel
Drive Train	Yamaha On-Command® pushbutton 2WD & 4WD; shaft

#### Chassis

Suspension/Front	Independent double wishbone, 6.3" travel w/5-way preload adjustment
Suspension/Rear	Independent double wishbone, 7.1" travel w/5-way preload adjustment
Brakes/Front	Dual hydraulic discs
Brakes/Rear	Hydraulic disc
Tires/Front	AT25x8-12
Tires/Rear	AT25x10-12

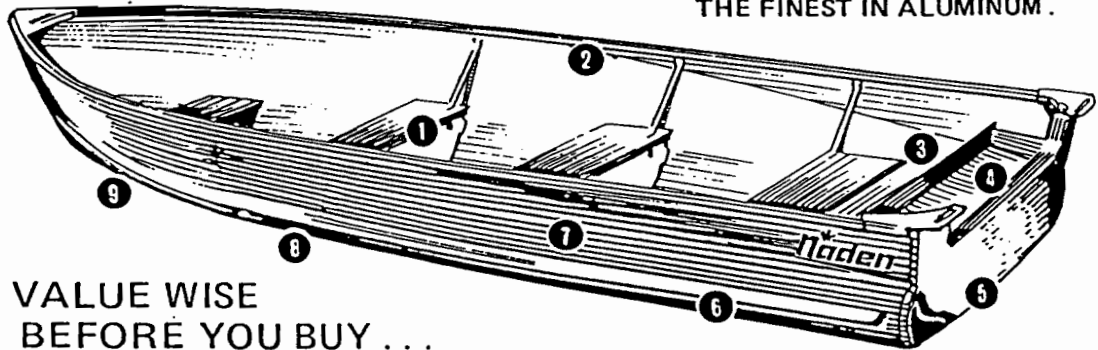
#### Dimensions

Length	78.5" x 43.0" x 44.1"
Seat Height	32.7"
Wheelbase	48.5"
Turning Radius	118"
Ground Clearance	10.8"
Fuel Capacity	4.0 gal.
Dry Weight	578 lb.
Rack Capacity	88 lb front/176 lb rear
Towing Capacity	1102 lb.
Instrumentation	Speedometer, odometer & fuel gauge
Lighting	Dual 30W Krypton multireflector headlights & 21/5W brake light

# Naden

*Canada's Finest Aluminum Boats*

NADEN BOATS ARE FOR THE COMMERCIAL OPERATOR  
OR INDIVIDUAL WHO DEMANDS  
THE FINEST IN ALUMINUM.



**BE VALUE WISE  
BEFORE YOU BUY . . .  
CHECK THESE FEATURES  
AGAINST ANY ALUMINUM FISHING BOAT!**

1. All Naden Boats use expanded polystyrene for floatation . . . no worry about water tight floors or air tank punctures . . . if an accident occurs - "our boat floats"
2. Extra large rugged gunwales add to the overall comfort and structural strength of the boat . . . they take the wear but never show it . . .
3. Level and upright floatation.
4. Drain plug in transom - combined with a smooth rib free bottom design assures you the driest . . . most comfortable boat available.
5. Naden uses only the finest marine alloys available . . . we won't sacrifice quality . . . should you?
6. Extra large splash rails for the driest ride afloat plus . . . extra thick wall construction where the rail rubs on concrete . . . wood or steel docks . . .
7. Naden's "beautiful blue" has the look of quality . . . its three mil coat of high gloss enamel provides the perfect finish to the finest fishing boat afloat
8. Five heavy keels . . . keeps the wear off the bottom, provides rigid hull design and gives the Naden boat stability beyond compare
9. Naden's semi-V planing bottom was designed by experts for unsurpassed speed and handling . . .

#### NADEN ALUMINUM BOATS ARE DURABLE

Ask the man who's skippered one. An aluminum boat won't warp, won't crack, won't leak. Sun can't craze it. Water can't cause it to "check" or break down. Even if you should be forced to run your aluminum boat along piers, through pounding surf, over rocky beaches and sunken logs - don't worry. An aluminum boat is rugged - won't puncture or wear down where plastic boats do. And, of course, aluminum can't burn.

#### WHY BUY A NADEN ALUMINUM?

Ask your dealer why he is putting renewed emphasis on aluminum this year. We know the following reasons will be included in his answer:

- No other material can equal aluminum for strength and durability.
- An aluminum boat is practically maintenance free. (No necessity to caulk and paint to make the old tub sea worthy!)
- Aluminum's strength stays strong, won't get brittle and split and crack like some other materials.
- Aluminum's light weight and strength allows you to handle your loading and unloading with ease.
- No other material takes the beating of rough water, rocky beaches, banging on docks, and yes even collisions, like aluminum.

FOR MORE INFORMATION OR A DEMONSTRATION  
SEE YOUR NEAREST NADEN DEALER OR CONTACT

## Naden

BOATS LTD  
VERMILION BAY, ONTARIO  
CANADA  
(807) 227 2080

*"A Reputation for Quality & Performance"*



### *Technical Specifications*

## **BF40**

### **MOTOR**

<b>Type</b>	4-Stroke SOHC 3 Cylinders/6 Valves
<b>Displacement</b>	808 cc (49.4 cubic inches)
<b>Bore &amp; Stroke</b>	70 mm x 70 mm (2.8 x 2.8 inches)
<b>Full Throttle RPM Range</b>	5,000-6,000 RPM
<b>Rated Power</b>	40 HP @ 5,500 RPM
<b>Cooling System</b>	Water Cooled
<b>Fuel Delivery</b>	3 Carburetors
<b>Ignition System</b>	Capacitor Discharge(CDI)
<b>Starting System</b>	Electric
<b>Exhaust</b>	Through Prop

### **DRIVE**

<b>Gear Ratio</b>	2.09:1
<b>Gear Shift</b>	F-N-R

### **EQUIPMENT**

<b>Alternator</b>	10-Amp (126 watt)
<b>Propeller Type</b>	3-Blade Aluminum
<b>Diameter x Pitch (L-type)</b>	11-1/4 x 13 inches
<b>Power Trim &amp; Tilt</b>	LHTC & LRTC models
<b>Gas-Assisted Tilt</b>	LHC model
<b>Oil Pressure Alert</b>	Standard
<b>Temperature Alert</b>	Standard
<b>Rev-Limiter</b>	Standard
<b>Speedometer Pickup</b>	Standard

### **DIMENSIONS**

<b>Overall Width</b>	370 mm /14.6 inches
<b>Recommended Transom Height (L-type)</b>	507 mm/20 inches
<b>Dry Weight (L-type)</b>	90 kg/198 lbs.



**TS 700**

## STIHL Cutquiks™

Number one worldwide

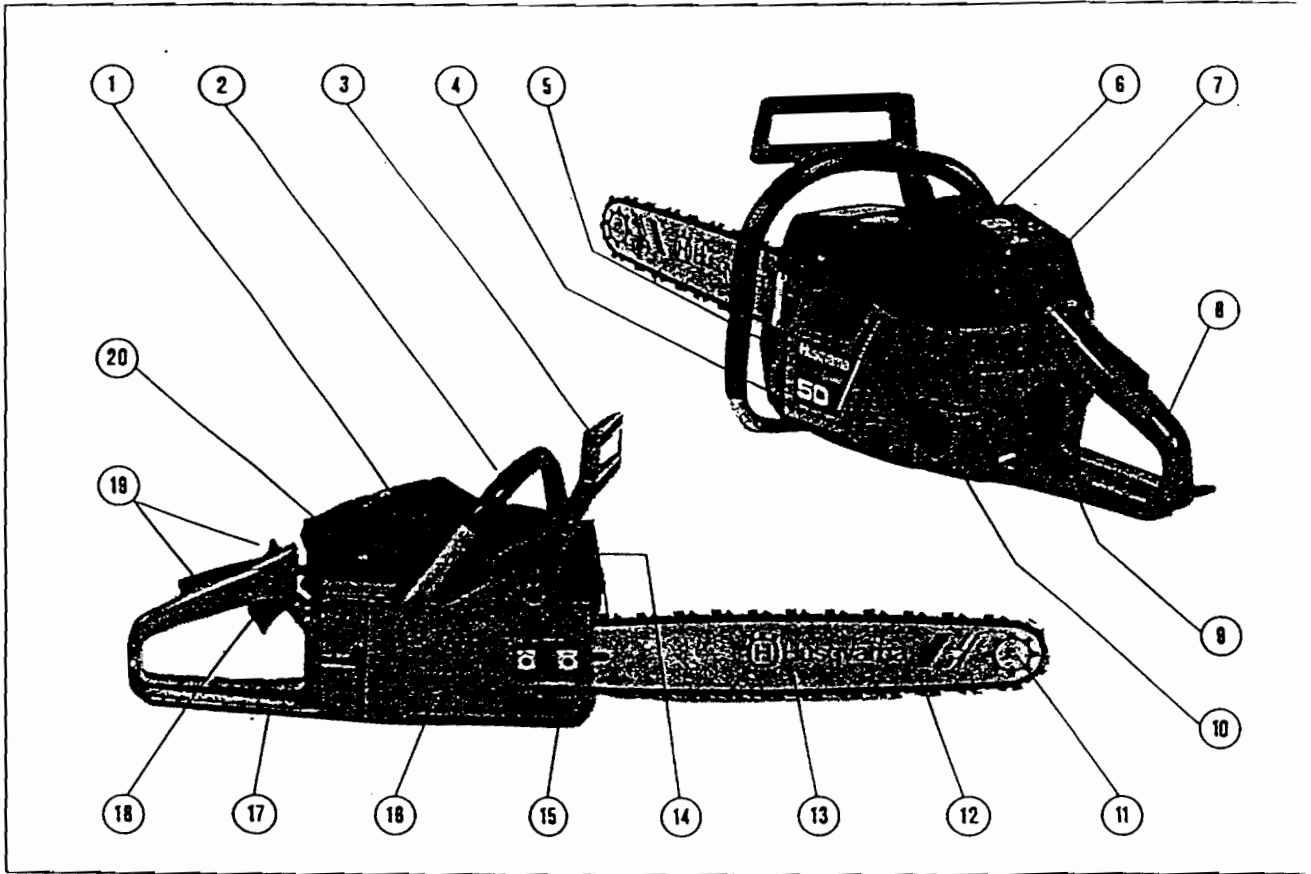
When you need to cut through concrete, metal, asphalt, masonry, stone, or ductile iron, you can count on a STIHL Cutquik™. STIHL's cutoff machines excel in cutting performance and dependability. With their extended service life and long intervals between maintenance, operating costs will be kept to a minimum.

Model	Displacement (cm³)	Power (kw/HP)	Weight (kg/lb)	Anti- Vibration System	Electronic Ignition System	Carburetor Compensator
STIHL TS 350	60.3	3.0/4.1	9.9/21.8	-	■	-
STIHL TS 400	64.1	3.2/4.4	9.1/20.0	■	■	■
STIHL TS 460	72.4	3.5/4.8	11.2/24.7	■	■	■
STIHL TS 700	98.5	5.0/6.8	11.6/25.6	■	■	■
STIHL TS 760	111.0	4.8/6.5	13.6/30.0	■	■	■

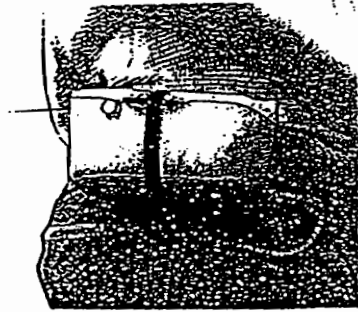
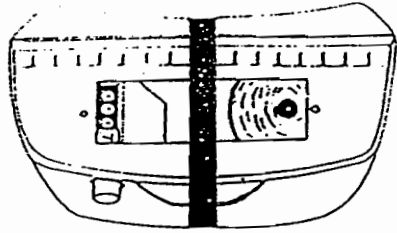
■ : standard □ : option

Mouse over the model name to view its image





# THE CHAIN



The Chain is a distance measuring device that operates by measuring the length of biodegradable thread that is drawn from a spool within the instrument. To use the device, the operator ties the thread to a convenient object, sets the counter to zero, and begins walking. When the traverse has been completed, the distance traveled is recorded on the counter and the thread is broken and discarded.

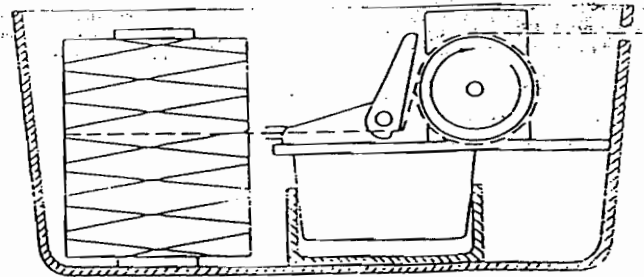
Weight: 450 g (1 lb) complete with thread  
Dimensions: 17,5 cm x 8,5 cm x 7,5 cm  
Accuracy: Thread measured to within  $\pm 0.2\%$

Counter: 10 km range, Skip-proof, anti-clockwise knob reset. Registers in tenths.

Thread: 2500 meter spools

#### ADDED FEATURES OF "THE CHAIN"

- Large window for easy viewing of the counter and thread
- Window is bolted in for extra protection
- Large eyelet in the box for easy threading
- Each unit comes complete with a belt
- Strap attached to the box to wrap around it to prevent the lid from opening while using in rough terrain.



#### THREADING INSTRUCTIONS:

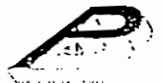
- Place the spool of thread on the spindle
- Slide the thread through the eyelet on the base, then wrap it around the wheel on the counter twice.
- Slide the thread through the eyelet in the end of the box.

Available in meters and yards  
Spare parts also available

#### LANGRIDGE-MARSHALL

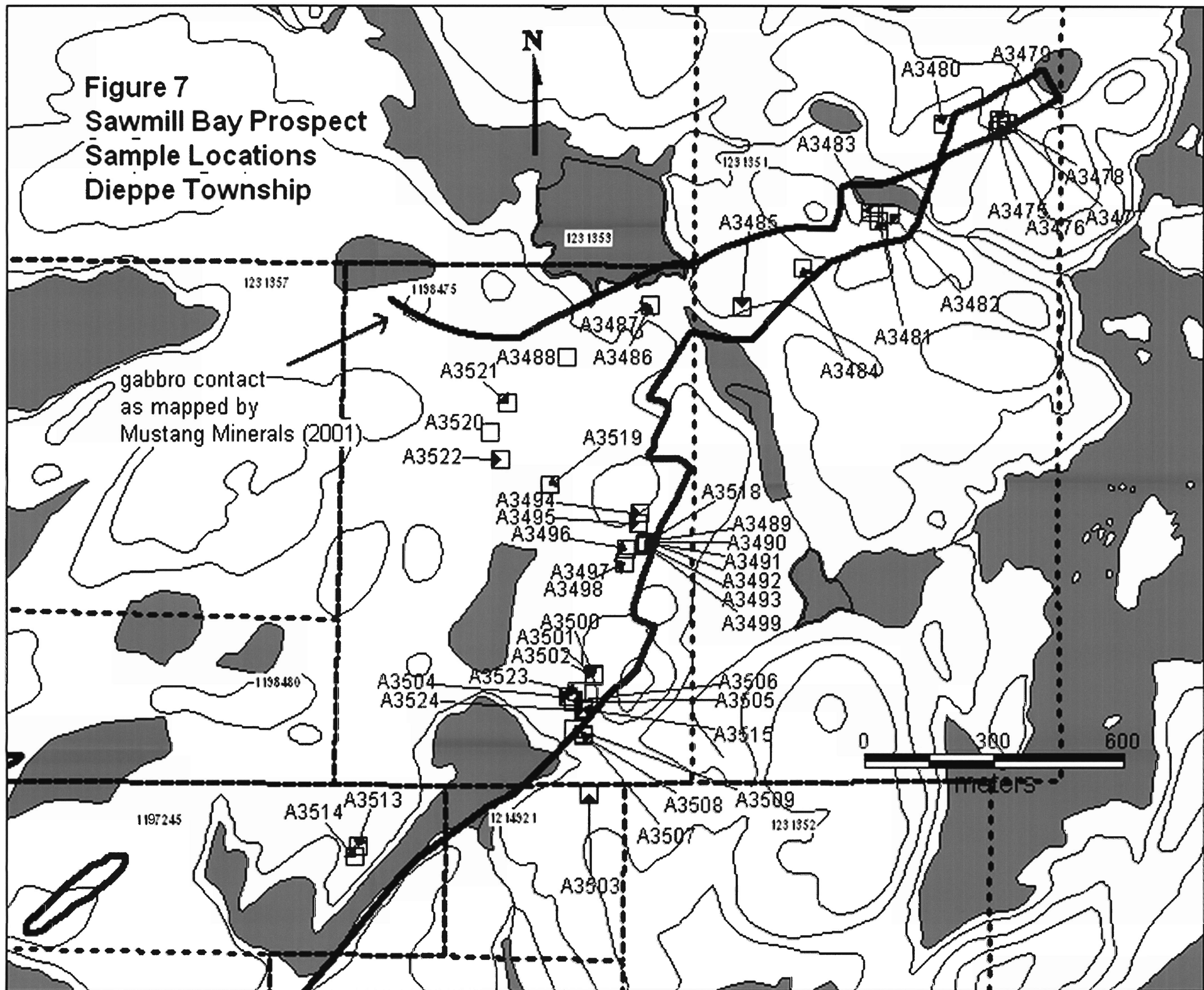
Division of Northern Miner Press Inc.

7 LABATT AVE., TORONTO, CANADA M5A 3P2  
Tel. (416) 366-1168 Fax (416) 597-1737





**Figure 7**  
**Sawmill Bay Prospect**  
**Sample Locations**  
**Dieppe Township**





Date / Time of Issue: Wed Jan 31 16:26:50 EST 2007

TOWNSHIP / AREA  
DIEPPE

PLAN  
G-4034

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division  
Land Titles/Registry Division  
Ministry of Natural Resources District

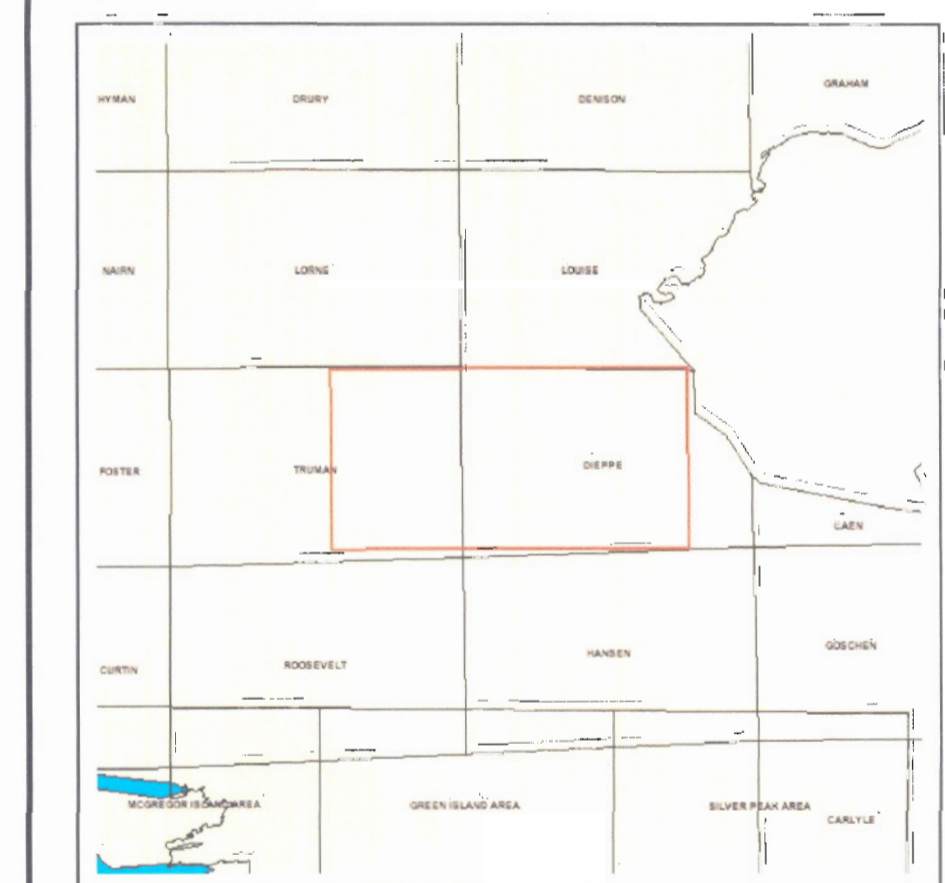
Sudbury  
SUDBURY  
SUDBURY

TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipeline
- Utilities
- Tower

Land Tenure

- Freehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Leasehold Patent**
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
- Licence of Occupation**
  - Uses Not Specified
  - Surface And Mining Rights
  - Surface Rights Only
  - Mining Rights Only
  - Land Use Permit
  - Order in Council (Not open for staking)
  - Water Power Lease Agreement

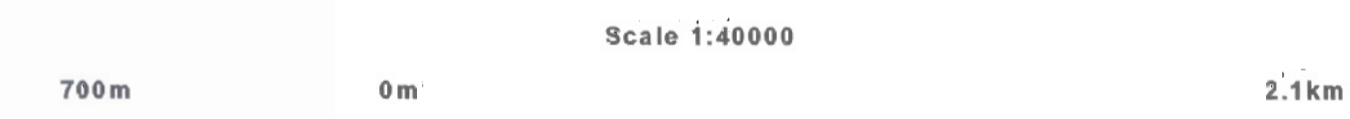


LAND TENURE WITHDRAWALS

- Mining Claim
- Filed Only Mining Claims
- Areas Withdrawn from Disposition
  - Mining Acts Withdrawal Types
  - Surface And Mining Rights Withdrawn
  - Surface Rights Only Withdrawn
  - Mining Rights Only Withdrawn
  - Order in Council Withdrawal Types
  - Surface And Mining Rights Withdrawn
  - Surface Rights Only Withdrawn
  - Mining Rights Only Withdrawn

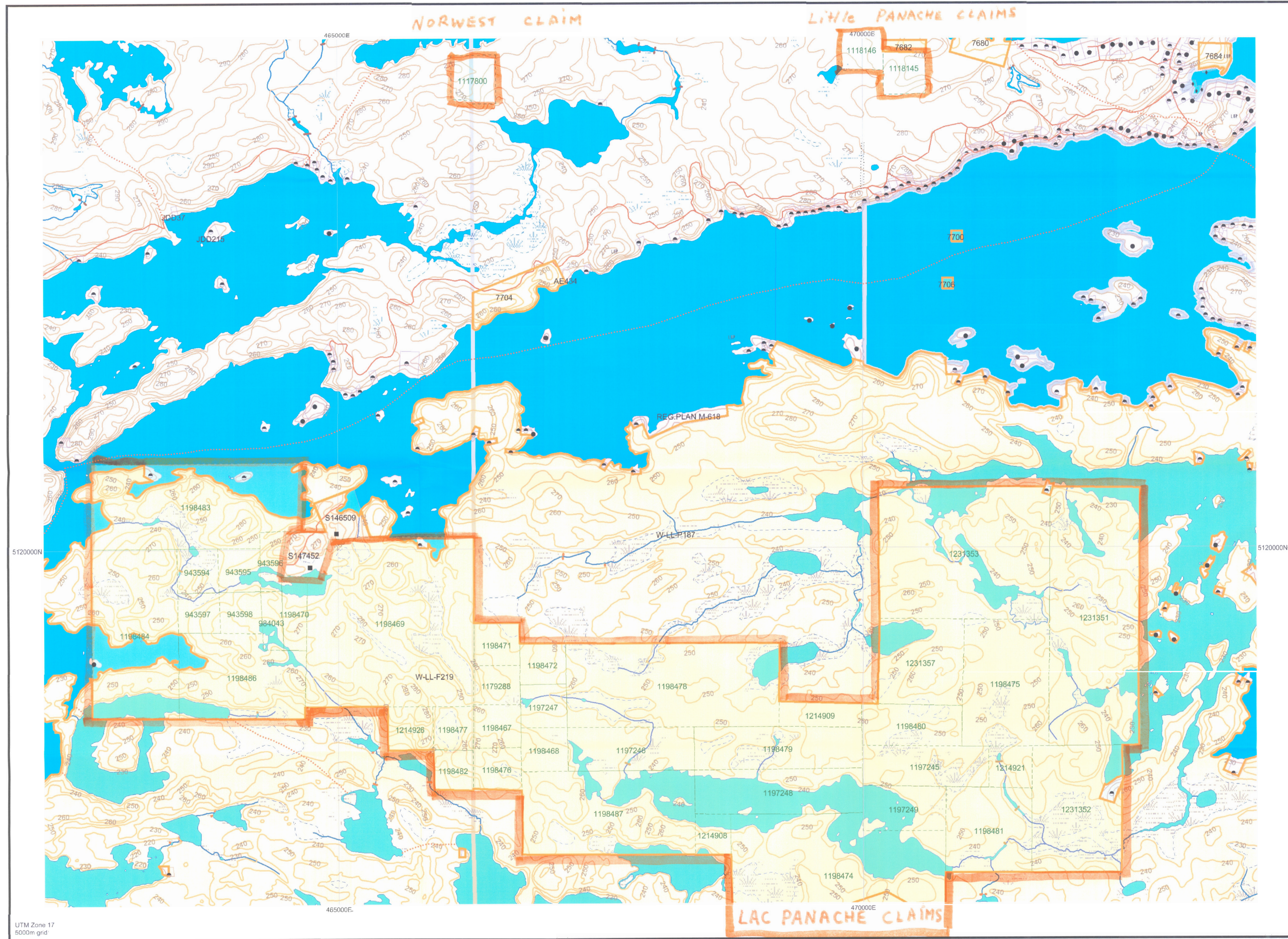
IMPORTANT NOTICES

Wsm  
Ws  
Wm  
W'sm  
W's  
W'm  
Ns



LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
7680	Wsm	Jan 1, 2001	RESERVED FOR PUBLIC USE 24 MARCH 1954 S.R.O. 77094 v.6
7682	Wsm	Jan 1, 2001	NOT OPEN GROUND
7684	Wsm	Jan 1, 2001	M.N.R. RESERVE 90123 v.1
7700	Wsm	Jan 1, 2001	ALL ISLANDS IN LAKE PANACHE WITHDRAWN FROM STAKING NOVEMBER 23, 1926
7704	Wsm	Jan 1, 2001	RESERVED FOR PUBLIC USE 24 MARCH 1954 S.R.O. 77094 v.6
7706	Wsm	Jan 1, 2001	FLOODING LAKE PANACHE; RESERVING THE RIGHT TO FLOOD AND OVERFLOW THE SAID LANDS TO ELEVATION 731.1 FT ABOVE MFAN SEA LEVEL - SURVEY PLAN DATED 23 AUGUST 1941, BY J. BOBIE.
W-LL-F219	Wsm	Dec 23, 2005	<a href="http://www.mndm.gov.on.ca/mndm/mines/lands/ivieg/qlake/2005orders/dec/withdrawals/wf219-05_e.asp"> W-LL-F219 ONT M&S withdrawal S.35 Mining Act RSO 1999, 23/12/05 Boundary generally depicts area withdrawn Click to view actual area </a>
W-LL-F331	Wsm	Aug 20, 2005	<a href="http://www.mndm.gov.on.ca/mndm/mines/lands/ivieg/qlake/2005orders/dec/withdrawals/wf331-05_e.asp"> W-LL-F331 ONT M&S withdrawal S.35 Mining Act RSO 1999, 20/08/05 Boundary generally depicts area withdrawn Click to view actual area </a>
W-LL-P187	Wsm	Dec 23, 2005	<a href="http://www.mndm.gov.on.ca/mndm/mines/lands/ivieg/qlake/2005orders/dec/withdrawals/wp187-05_e.asp"> W-LL-P187 ONT M&S withdrawal S.35 Mining Act RSO 1999, 23/12/05 Boundary generally depicts area withdrawn Click to view actual area </a>
W-LL-P331	Wsm	Aug 20, 2005	<a href="http://www.mndm.gov.on.ca/mndm/mines/lands/ivieg/qlake/2005orders/dec/withdrawals/wp331-05_e.asp"> W-LL-P331 ONT M&S withdrawal S.35 Mining Act RSO 1999, 20/08/05 Boundary generally depicts area withdrawn Click to view actual area </a>



Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

General Information and Limitations  
 Contact Information:  
 Provincial Mining Recorders' Office  
 Willet Green Miller Centre 933 Ramsey Lake Road  
 Sudbury ON P3E 6B5  
 Home Page: www.mndm.gov.on.ca/MNDM/MINES/LANDS/mimmpg.htm

Toll Free:  
 Tel: 1 (888) 415-9845 ext 5770  
 Fax: 1 (877) 670-1444

Map Datum: NAD 83  
 Projection: UTM (6 degree)  
 Topographic Data Source: Land Information Ontario  
 Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.



Date / Time of Issue: Wed Jan 31 15:00:38 EST 2007

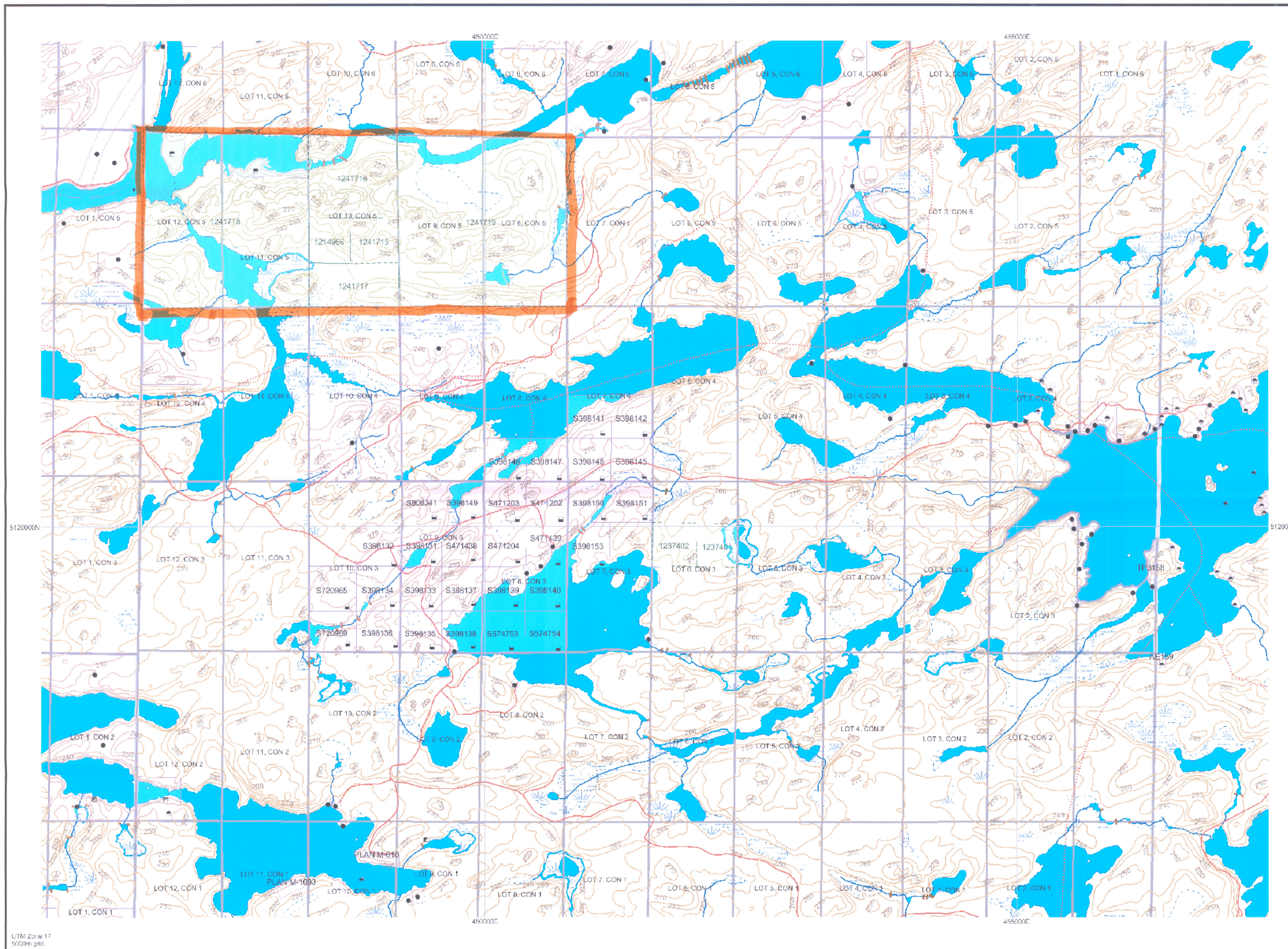
TOWNSHIP / AREA  
FOSTER

PLAN  
G-3192

ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division  
Land Titles/Registry Division  
Ministry of Natural Resources District

Sudbury  
SUDBURY  
SUDBURY

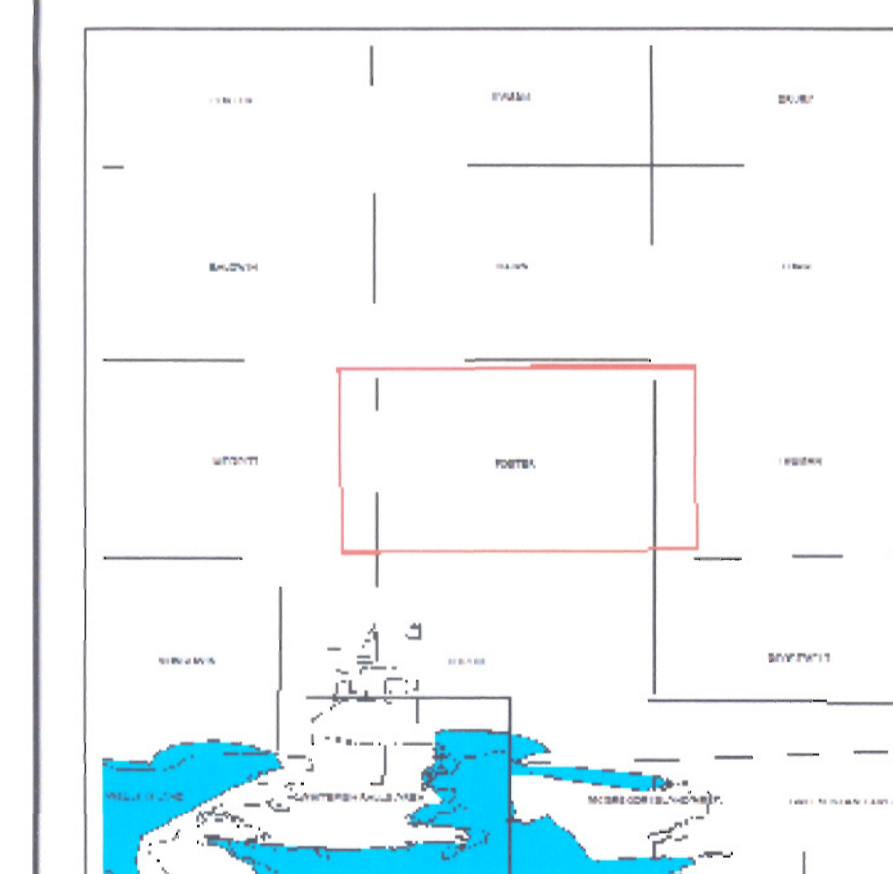


TOPOGRAPHIC

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- Concession Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
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- Mine Headframe
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- License of Occupation**
  - Uses Not Specified
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  - Land Use Permit
  - Order In Council (Not open for staking)
  - Water Power Lease Agreement



- LAND TENURE WITHDRAWALS**
- 1234 Areas Withdrawn from Disposition
- Mining Acts Withdrawal Types
- Surface And Mining Rights Withdrawal
- Surface Rights Only Withdrawal
- Mining Rights Only Withdrawal
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- Surface And Mining Rights Withdrawal
- Surface Rights Only Withdrawal
- Mining Rights Only Withdrawal
- IMPORTANT NOTICES



LAND TENURE WITHDRAWAL DESCRIPTIONS

Identifier	Type	Date	Description
7811	Wem	Jan 1, 2001	SEC.42/76 S.R.O. 163005
W-LL-P187	Wem	Dec 23, 2005	<a href="http://www.mndm.gov.on.ca/mndm/mines/lands/leg/fglake/2005orders/dec/withdrawals/wp187-05_e.asp">W-LL-P187 ONT M&S withdrawal S.35 Mining Act RSO 1999, 23/12/05 Boundary generally depicts areas withdrawn Click to view actual area </a>
W-27/85	Wm	Jan 1, 1985	W.27/85 NER DEC.12, 1985 SRC
W-28/86	Wem	Dec 12, 1985	W.28/85 NER DEC.12,1985 M+S

= BRAZIL LAKE CLAIMS

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Willot Green Millar Centre 933 Ramsey Lake Road  
Sudbury ON P3E 6B5  
Home Page: [www.mndm.gov.on.ca/MNDM/MINES/LANDS/mislandspage.htm](http://www.mndm.gov.on.ca/MNDM/MINES/LANDS/mislandspage.htm)

Toll Free  
Tel: 1 (866) 415-9845 ext. 5792  
Fax: 1 (877) 670-1444

Map Datum: NAD 83  
Projection: UTM (6 degree)  
Topographic Data Source: Land Information Ontario  
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.