

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016 - 510 West Hastings Street  
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Telephone: 604-688-2568

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**ASSESSMENT REPORT**

describing

**PROSPECTING AND GEOCHEMICAL SAMPLING**

at the

**ZAP PROPERTY**

Zap 1-10 YC47977-YC47986  
11-50 YC50228-YC50267

NTS 106D/8

Latitude 64°16'N; Longitude 134°04'W

in the

Mayo Mining District,  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**STRATEGIC METALS LTD.**

by

W. Douglas Eaton, B.Sc. Geology  
April, 2007

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## INTRODUCTION

The Zap property hosts stockwork and vein silver-lead mineralization. It is located in central Yukon and is owned 100% by Strategic Metals Ltd.

This report describes an exploration program that was conducted between July 13 and 20, 2006 by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals. The program was supervised by the author and consisted of prospecting and geochemical sampling by a two person crew from a tent camp on the property. The author's statement of qualifications appears in Appendix I.

## PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Zap property consists of 50 contiguous mineral claims located in central Yukon Territory on NTS map sheet 106D/8 at latitude 64°16'N and longitude 134°04'W (Figure 1). The claims are registered with the Mayo Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Claim data are listed below while the locations of individual claims are shown on Figure 2.

<u>Claim Number</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
Zap 1-10	YC47977-YC47986	May 19, 2007
11-50	YC50228-YC50267	August 2, 2007

\* Expiry date does not include 2006 exploration, which has not yet been filed for assessment credit.

The Zap property is located 105 km northeast of the village of Mayo, which is accessible via the Yukon highway system using the Klondike Highway and Silver Trail. Mayo is situated 407 km by road north of Whitehorse. The closest road access to the property is at McQuesten Lake, which lies 87 km by road northeast of Mayo and 60 km southwest of the Zap property. From McQuesten Lake, an abandoned winter road extends northward to a small airstrip at Kathleen Lake, 6 km southwest of the property. A bulldozer trail extends from Kathleen Lake onto the property. The airstrip at Kathleen Lake is suitable for short take-off and landing fixed wing aircraft while the lake itself is used by float equipped aircraft.

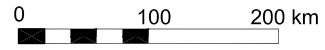
In 2006, access to the property was provided by a Bell 206B helicopter operated by Trans North Helicopters from its base in Mayo.

## PREVIOUS HISTORY

The area now covered by the Zap property was first staked in 1977 by Prism Joint Venture (Asamera Oil Corp., Chieftain Development Ltd., Prism Resources Ltd., Siebens Oil and Gas Ltd. and E & B Exploration Ltd.). This joint venture carried out mapping and soil geochemical surveys in 1977; more mapping and soil geochemical surveys plus gravity surveys, hand trenching and 5 diamond drill holes totalling 527.3 m in 1978 (Cavey, 1979); and, additional soil sampling and 8 diamond drill holes totalling 953.4 m in 1979 (Cavey, 1980). Dome Petroleum

# STRATEGIC METALS LTD.

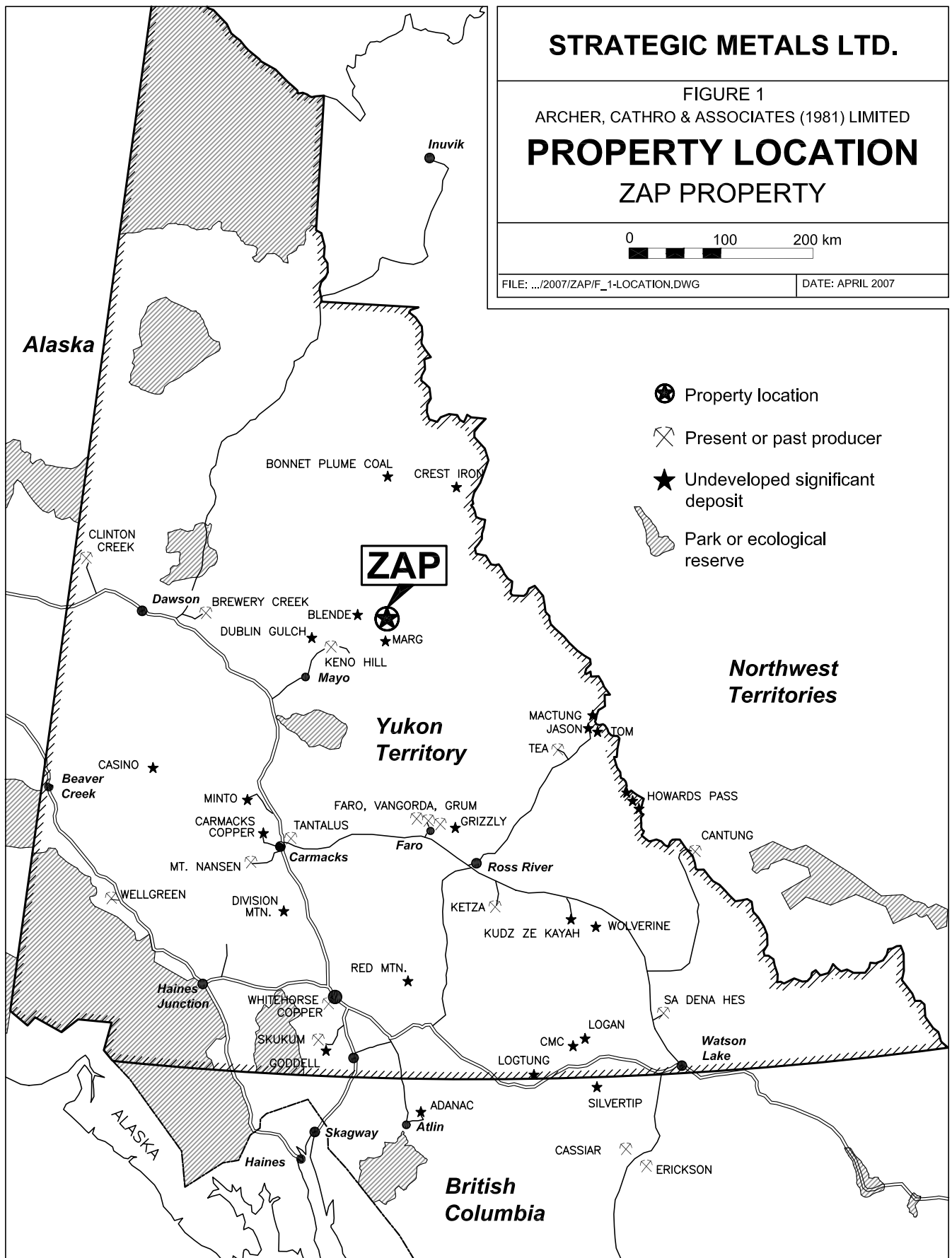
FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY LOCATION**  
ZAP PROPERTY

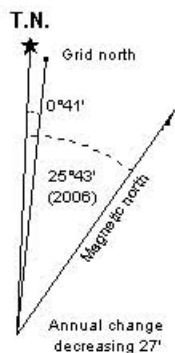
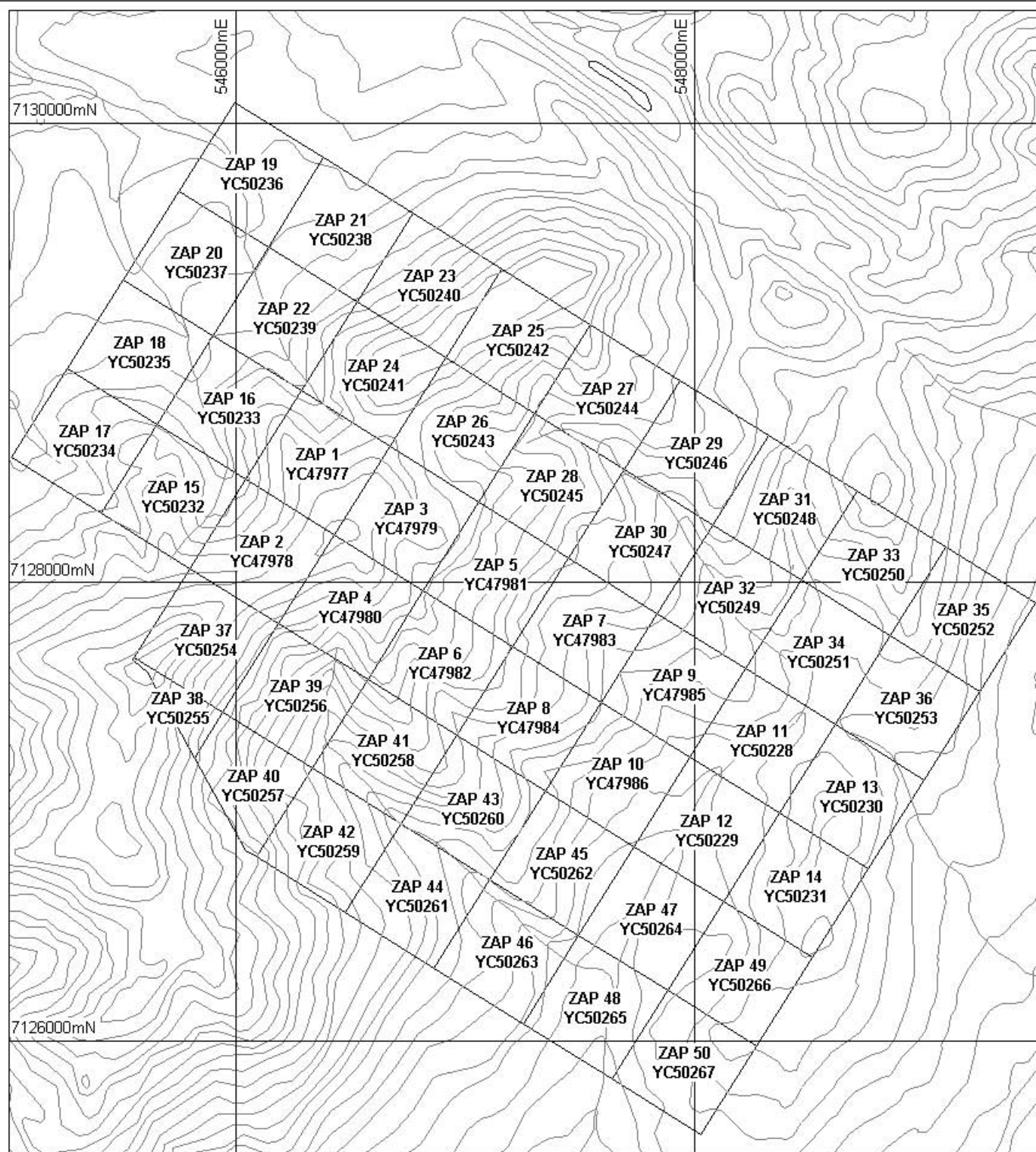


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DATE: APRIL 2007

- Property location
- Present or past producer
- Undeveloped significant deposit
- Park or ecological reserve





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FIGURE 2  
 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

## CLAIM LOCATION ZAP PROPERTY



UTM Zone 8, NAD83, NTS 106C/5 - 106D/8

Ltd. replaced Siebens Oil and Gas as a venture partner in 1979.

Although work by the joint venture outlined one of the largest and strongest silver-in-soil anomalies in Yukon, the drilling was ineffective (a number of holes were lost and most were positioned so that they did not test the main soil anomalies). Results of the gravity survey were considered to be largely unreliable due to the magnitude of the topographic corrections. The best drill intersection graded 4% lead, 0.3% zinc and 277.7 g/t silver over 3 m.

No further work was reported until Strategic Metals staked the property in spring 2006.

### **GEOMORPHOLOGY**

The property lies on the southern edge of the Wernecke Mountains. It is drained by creeks that flow into the Rackla River and ultimately into the Pacific Ocean via the Stewart and Yukon Rivers.

The geomorphological setting is alpine to subalpine with local elevations ranging from about 900 m in the southern part of the claim block to 1670 m atop a peak in the northern part. Most of the property lies on a long, south facing hillside featuring a series of deeply incised drainages separated by broad talus and soil covered ridges. Near the peak, outcrop and talus predominate particularly on the steeper north- and east- facing slopes. Outcrop is rare at elevations below 1600 m.

Vegetation consists of mature spruce along creeks in the southern part of the property, which gradually gives way to stunted spruce, buckbrush and grass, and then lichen-covered talus on upper slopes. Tree line is at about 1500 m.

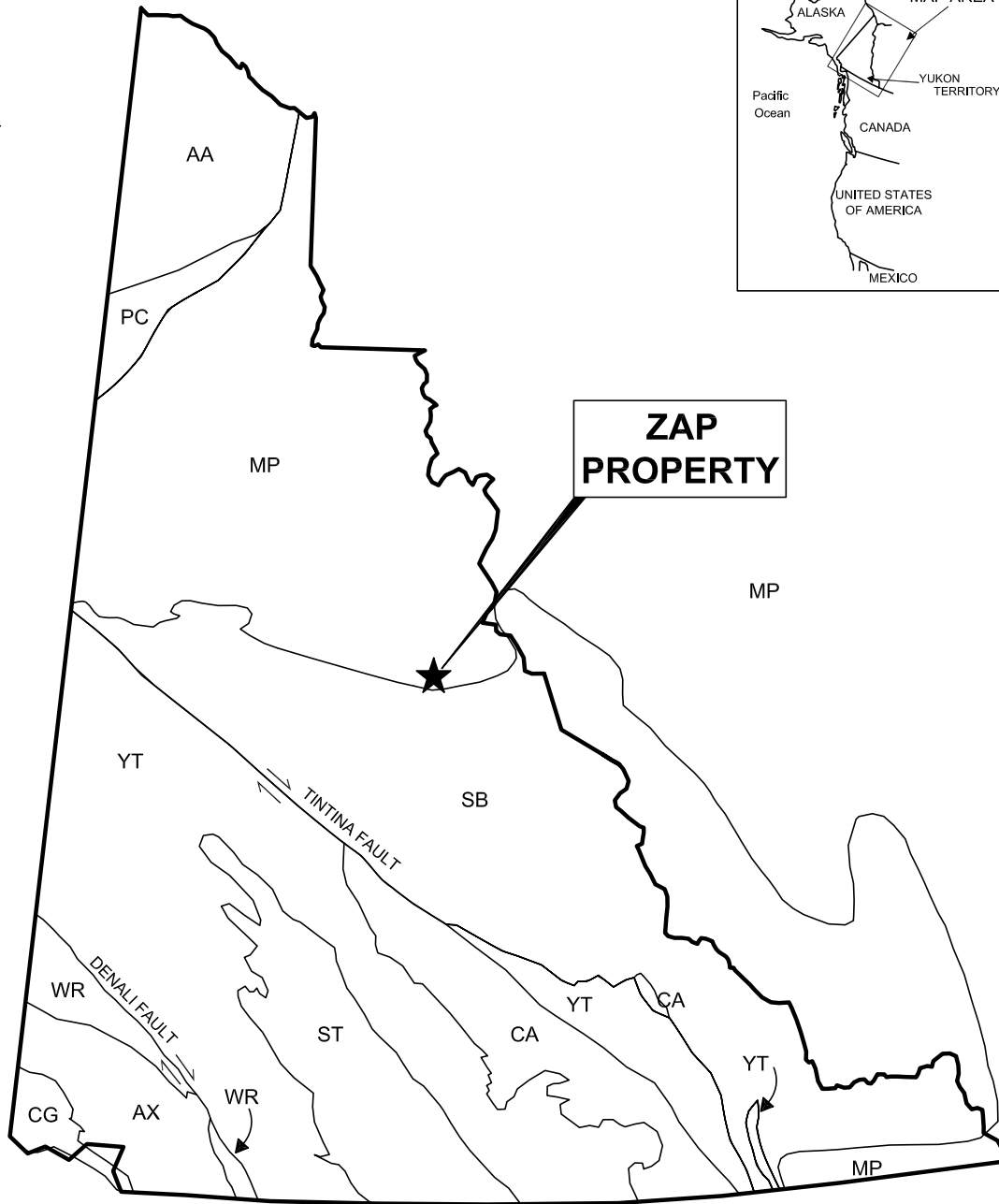
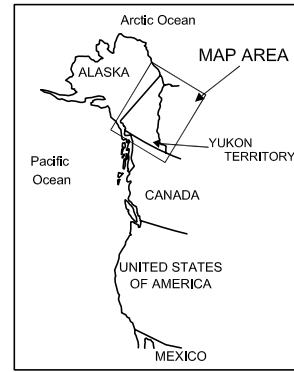
### **REGIONAL GEOLOGY**

The Zap property is located within the Mackenzie Platform, a tectonic element comprising episodic miocynclinal sediments deposited on the west side of the North American from Early Proterozoic through to Paleozoic times (Figure 3).

The following table summarizes the main lithologies in the Zap area from youngest to oldest.

**Table 1: Regional Lithological Descriptions (After Roots, 1990)**

<u>Age</u>	<u>Description</u>
Pleistocene to Recent	Overburden: glacial moraines, talus and soil.
Triassic	Fine to medium grained hornblende diorite sills and dykes.
Cambrian to Devonian	Platform carbonates with shallow water clastic sediments; predominantly dolostone with a basal sandstone unit.



ANCESTRAL NORTH AMERICA

- MP Mackenzie Platform
- SB Selwyn Basin

TERRANES  
Displaced Continental Margin

- AA Arctic Alaska
- CA Casslar
- PC Porcupine

Pericratonic Terranes

- YT Yukon-Tanana / Slide Mountain

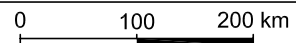
ACCRETED TERRANES

- ST Stikinia / Cache Creek
- AX Alexander
- WR Wrangellia
- CG Chugach

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FIGURE 3  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

TECTONIC SETTING  
ZAP PROPERTY



DRAWN/REVISED BY: TCB

FILE: ...FIG 03 - TECTONIC SETTING

DATE: APRIL 2007

Middle Proterozoic	Pinguicula or Lower Fifteenmile Group: shallow water clastic sediments with lesser carbonite units.
Middle Proterozoic	Wernecke Breccia: ~1600 Ma discordant breccia bodies that are younger than the Pinguicula Group; exhibit variable alteration of groundmass and fragments.
Early Proterozoic	Wernecke Supergroup: consists of basal Fairchild Lake Group shallow water clastic and carbonate rocks; Quartet Group deeper water clastic sediments; and Gillespie Lake Group dolostones and shallow water clastic sediments.

The Wernecke Supergroup rocks have been deformed by three main events: the Racklan, Corn Creek and Laramide Orogenies. The Middle Proterozoic rocks are affected by the latter two orogenies and the Paleozoic rocks only by the Laramide Orogeny. Two major, south dipping thrust faults, the Dawson and Tombstone Thrusts, lie about 6 and 18 km, respectively, to the south of the property. The dominant structural fabric in the area is easterly to east-southeasterly, as defined by the thrusts and a series of broad upright folds related to the Laramide Orogeny.

A belt of post-orogenic, granitic intrusions is partially unroofed about 14 km south of the property. These intrusions belong to the Tombstone Plutonic Suite. Other plutons belonging to this suite are associated with numerous precious metal deposits elsewhere in the Yukon and Alaska, including the silver-lead veins of the Keno Hill District (Cathro, 2006).

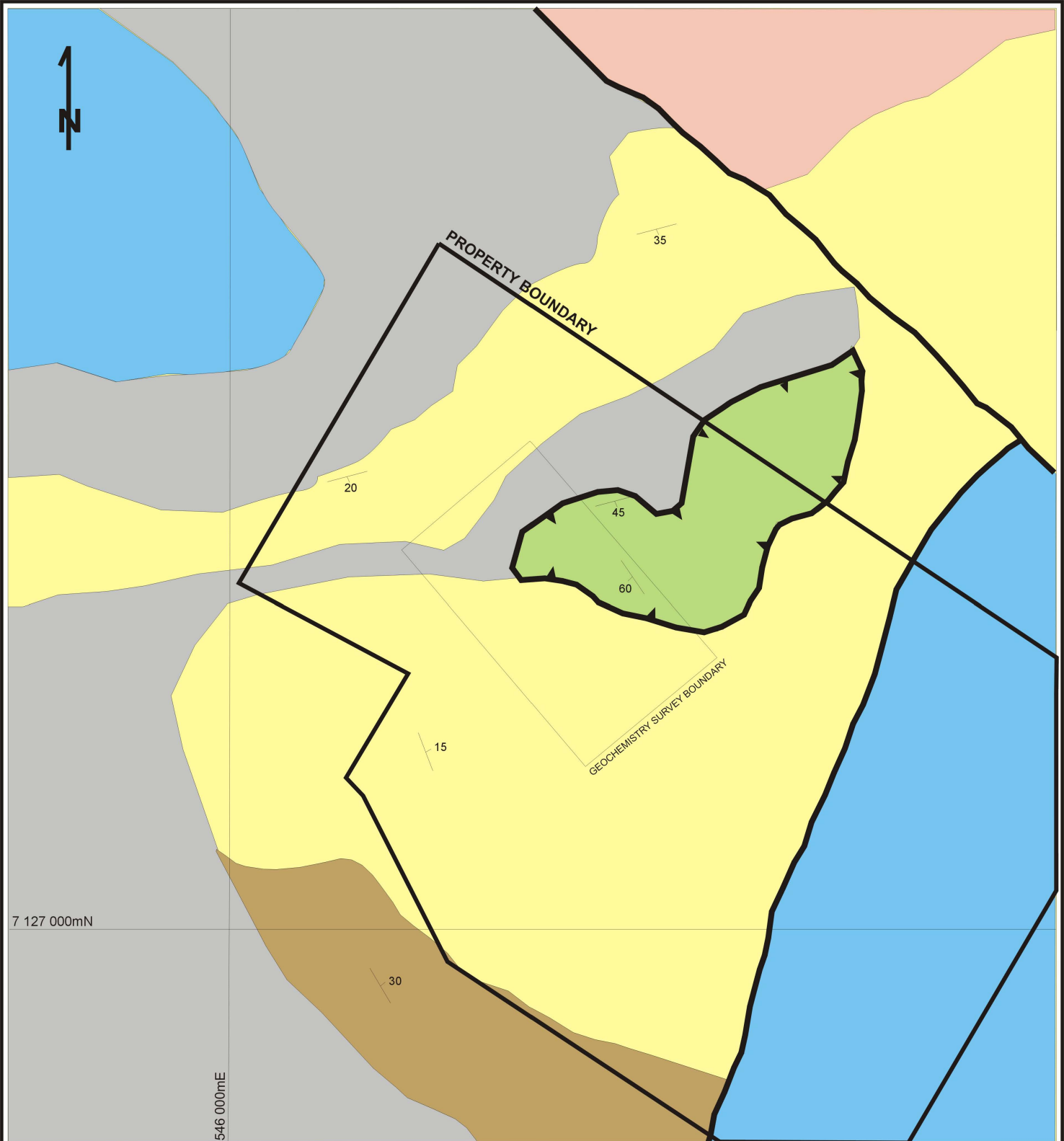
### **PROPERTY GEOLOGY**

The following geological descriptions are primarily based on mapping done in the late 1970s by Prism (Cavey, 1980) and in the 1980s by Indian Northern Affairs Canada (Roots, 1990). The geology is subdivided into three domains by a large north-northeast trending fault with uncertain dip and sense of motion and by a shallowly south dipping thrust fault (Figure 4). Prism interpreted the thrust fault as a moderately west dipping normal fault but based on age relationships of the various sedimentary units, it must be thrust fault (Roots, 1990). Four main rock units have been mapped on the property; all are sedimentary with ages ranging from Ordovician-Silurian to Middle Proterozoic. The units are described in the following paragraphs.

Unit 1 is confined to a 1650 m long, up to 500 m wide klippe in the north-central part of the property. The rocks comprising this unit are Middle Proterozoic in age and are assigned to either the Pinguicula or Little Fifteenmile Group. The unit includes an upper package of well bedded, blocky weathering quartzite with thin, orange weathering dolostone interbeds; and an underlying brown weathering limy shale.

Unit 2 consists of Late Proterozoic or Cambrian limestone that is juxtaposed against the younger units by the north-northeast trending fault.

Unit 3 outcrops in the southwest corner of the property and gradationally underlies Unit 4. Its description corresponds to Cambrian age rocks mapped in that area by Roots (1990). This unit



TRIASSIC

**Td** Fine to medium grained hornblende diorite sills and dykes

CAMBRIAN TO ORDOVICIAN

**eoc** Light grey weathering, thick-bedded and massive dolostone

CAMBRIAN

**ct** Dark grey, thin bedded dolostone

LATE PROTEROZOIC OR CAMBRIAN

**Pec** Light grey, medium grained limestone

MIDDLE PROTEROZOIC

**Pp4** Grey and brown siltstone

MIDDLE PROTEROZOIC

**Pp2** Brown, fine-grained sandstone, thin bedded

Thrust fault

Geological contact,

Fault (sense of movement unknown)

0 1 km

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FIGURE 4

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**PROPERTY GEOLOGY**

**ZAP PROPERTY**

FILE:AC/2007/ZAP/REG\_GEOL

DATE: APRIL 2007

consists of dark grey weathering, well bedded and thinly laminated dolomite with breccias and fractures of dolomite and/or siderite.

Unit 4 is the main rock type in the central part of the property. It is assigned a Cambrian to Ordovician age and comprises well bedded, medium grained dolostone that can be further divided based on colour. The uppermost subunit is about 50 m thick and weathers orange. It grades into underlying grey weathering dolomite that includes a 10 m thick section of onoclitic dolomite. Within the upper, orange weathering subunit, immediately beneath the thrust fault, there is a carbonaceous, often brecciated, black dolostone that commonly contains barite and chert. These carbonaceous rocks are frequently mineralized (see Mineralization section).

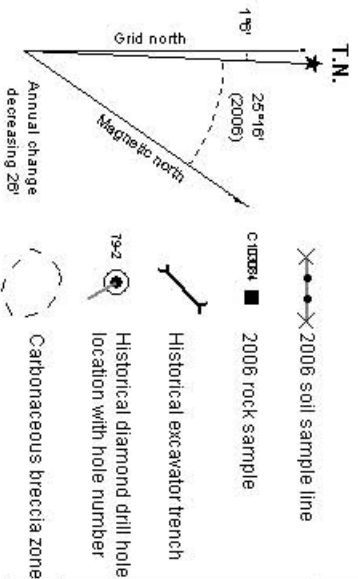
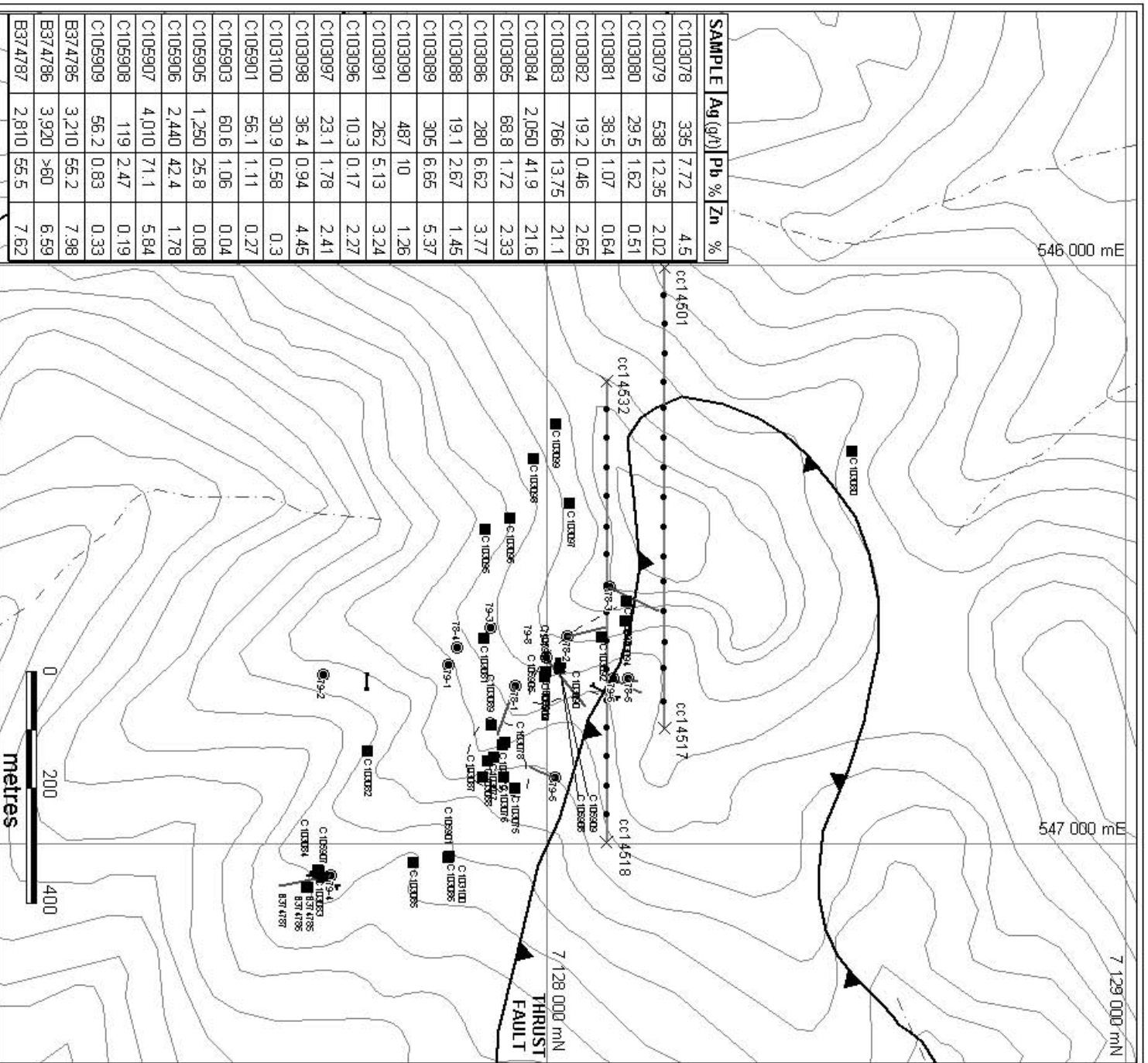
Bedding on the property shows a wide variety of strikes and dips.

### MINERALIZATION

Three types of mineralization have been identified at the Zap property, as shown on Figure 5 and described below.

- 1) Galena and tetrahedrite occur in the barite- and chert-rich, carbonaceous breccia at the top of Unit 4, immediately below the thrust fault. Float specimens of this material have assayed up to 3428.5 g/t silver (Cavey, 1980) but rock and chip samples from outcrops typically returned 40 to 300 g/t silver with 1 to 7 % lead. Where exposed, this type of mineralization occurs irregularly within two zones each about 180 m long and 100 m across. None of the drill holes cut this type of mineralization.
- 2) Sphalerite and galena are found within coarsely crystalline dolomite matrix in brecciated grey and orange dolomite, west (down section) from the carbonaceous breccias. These breccias have not been systematically sampled, but they appear to be more erratic than the type 1 mineralization and mineralized specimens typically produced lower values, between 20 and 80 g/t silver with 0.2 to 3 % lead. Mineralization of this type was occasionally intersected in drill holes and returned up to 277.7 g/t silver and 4 % lead across 3 m.
- 3) Galena and tetrahedrite are also hosted in veins that cut the Unit 3 dolomite. The best of these veins is partially exposed in three bulldozer trenches that lie about 400 m south of the main type 1 exposures. The vein appears to strike 070° and dip 70° to the south. It is about 0.2 m wide and is intermittently exposed over a 40 m strike length. The mineralization is relatively massive and samples taken in 2006 ranged from 2050 to 4010 g/t silver with 41.9 to 71.1 % lead. There is only weak soil geochemical response in the vicinity of this vein and drill holes that tested downdip did not intersect significant mineralization.

All but two of Prisms drill holes were collared southwest of the fault and the carbonaceous breccias that host type 1 mineralization, because of their locations and orientations, most of the holes could not have intersected the most favourable breccias that appear to be the source of the main soil geochemical anomalies. The holes that were well located all failed to reach bedrock.



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FIGURE 5

ARCHER, CATIRO & ASSOCIATES (1981) LIMITED

MINERALIZATION

ZAP PROPERTY

UTM Zone 9, NAD83, NTS 105G/16

FILE: \\LANBACKUP\ZAP\MZN\WOR

DATE: APRIL 2007

## **SOIL GEOCHEMISTRY**

During the 1970s Prism conducted grid soil sampling at 50 m by 100 m spacing across an area in the north-central part of the property, which is 1500 m long by 900 m wide. The samples were analyzed for lead, zinc and silver. No details were given regarding where the analyses were done or what techniques were used. Results of Prisms sampling are shown on Figures 6 to 8 for silver, lead and zinc, respectively.

Prisms soil sampling outlined coincident, moderately to intensely anomalous silver, lead and zinc values that appear to be sourcing from the carbonaceous breccias located immediately below the thrust fault. The highest values (up to 60 ppm silver, 18100 ppm lead and 10700 ppm zinc) are located about 400 m east of the main breccia exposures near the top of the mountain. The anomalous trend cuts obliquely across topography and is locally modified by downhill dispersion. The values weaken to the west after crossing the ridgeline but the trend continues intermittently, turning northward before swinging back to the east to follow the approximate surface trace of the thrust fault. Both limbs of the anomalous trend are open to the east. Values drop off abruptly above the thrust fault.

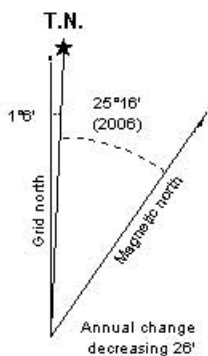
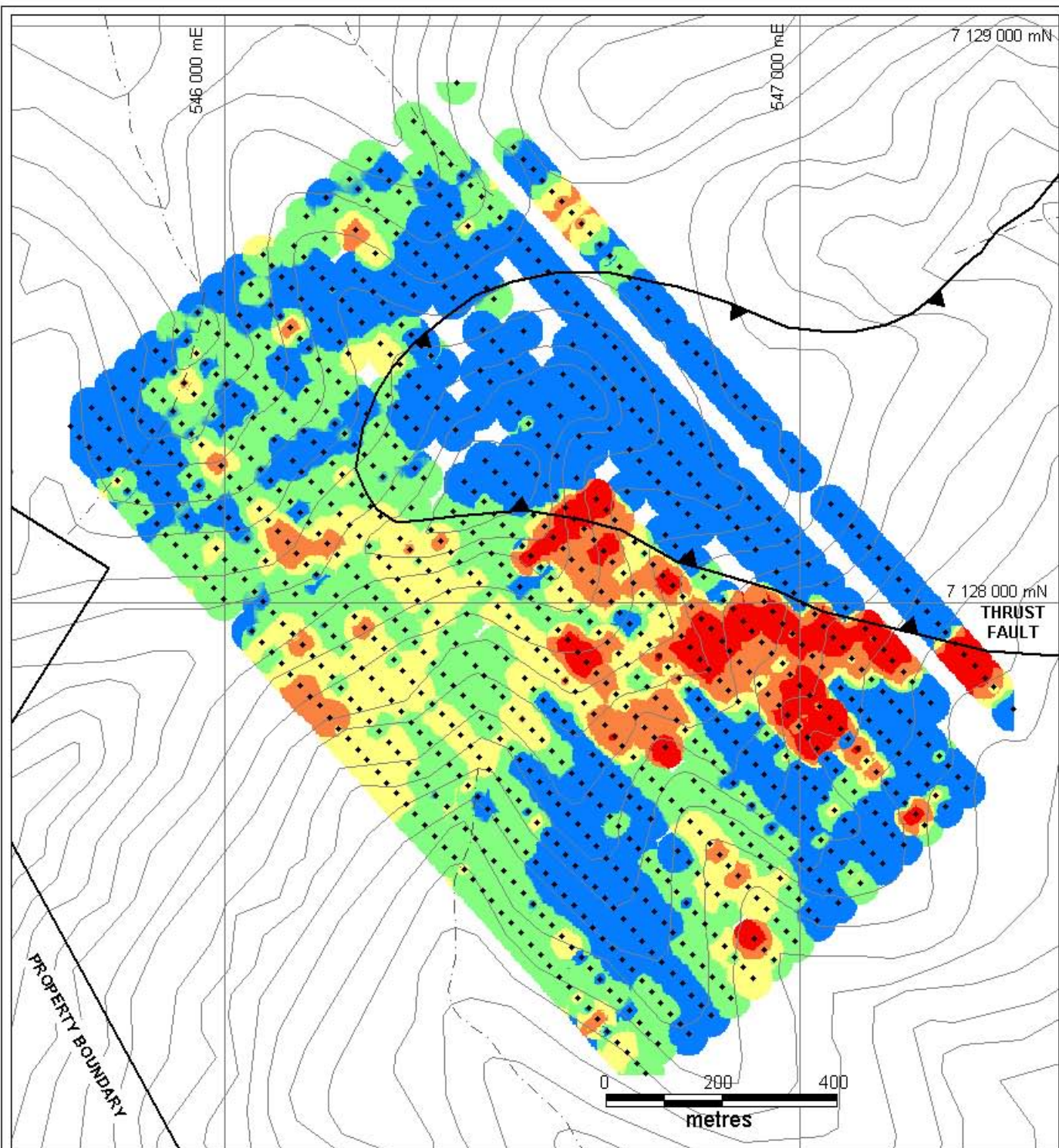
Prism outlined a number of secondary anomalies south and west of the main trend. These anomalies appear to be related to type 2 breccias and type 3 veins deeper in the stratigraphic section.

In 2006, 32 soil samples were taken to confirm Prism's results (Figure 5). These soil samples were collected at 50 m intervals on two lines positioned so that they covered areas that had returned background to strongly anomalous values from Prism's work. The samples were sent to ALS Chemex in North Vancouver where they were dried, screened to -180 microns, dissolved in aqua regia and then analyzed for 34 elements using the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41). Certificates of analysis are in Appendix II.

The samples returned values ranging between 29 and 7450 ppm lead, 35 to 2930 ppm zinc and nil to 29.1 ppm silver. The results closely resemble values obtained by Prism in the same area. The samples returned low arsenic (up to 71 ppm), copper (up to 41 ppm) and molybdenum (up to 2 ppm) values. Samples that produced strongly anomalous lead, zinc and silver values also returned elevated antimony (up to 74 ppm) and mercury (up to 4 ppm) values.

## **DISCUSSION AND CONCLUSION**

Soil sampling by Prism identified strongly anomalous silver, lead and zinc values direct downhill from the surface of a thrust fault that places a klippe of Middle Proterozoic sediments atop Paleozoic strata. Most of the anomalous area is talus or soil covered. Near the peak in the northern part of the property, the anomalous values approximately coincide with brecciated, cherty and baritic, carbonaceous dolostone that is mineralized with galena and tetrahedrite. This very distinctive unit also occurs directly beneath the thrust fault. While some of the anomalous soil values appear to be the result of downhill dispersion from these mineralized breccia exposures or are explained by smaller showings deeper in the stratigraphy, much of the anomalous trend cannot be explained by the known mineralization because is orientated oblique



Silver (ppm)	
Red	≥ 10
Orange	≥ 5 < 10
Yellow	≥ 3 < 5
Green	≥ 2 < 3
Blue	< 2

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FIGURE 6

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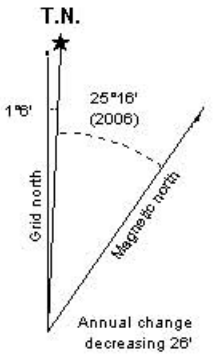
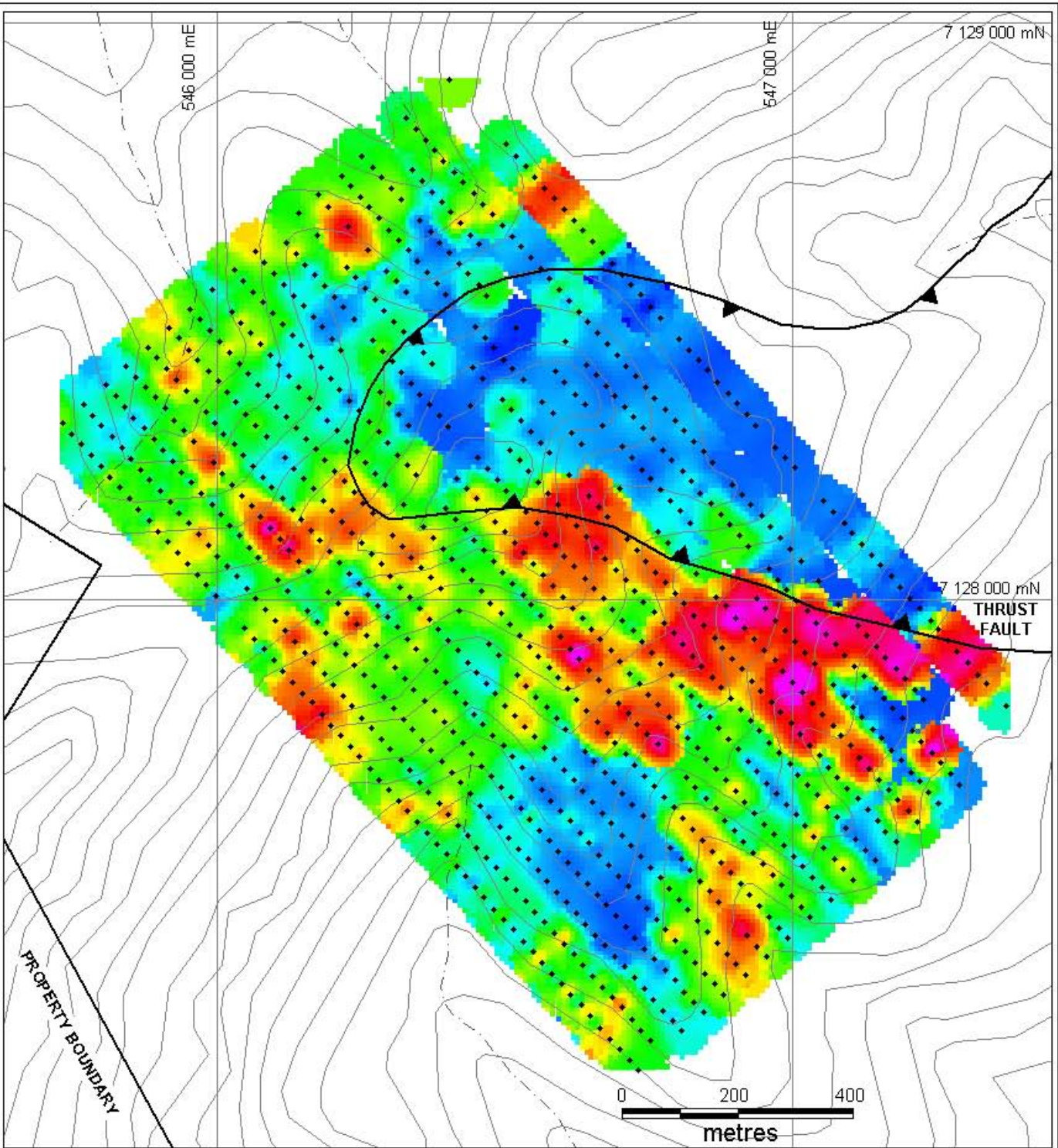
## SILVER GEOCHEMISTRY

### ZAP PROPERTY

UTM Zone 9, NAD83, NTS 105G/16

FILE: .../LANBACKUP/ZAP/Ag.WOR

DATE: APRIL 2007



**Lead Geochemistry (ppm)**

Red	≥ 5,000
Orange	≥ 2,500 < 5,000
Yellow	≥ 1,000 < 2,500
Light Green	≥ 500 < 1,000
Green	≥ 200 < 500
Cyan	≥ 100 < 200
Blue	≥ 0 < 100

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FIGURE 7

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

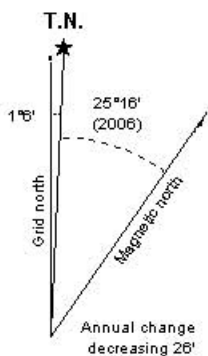
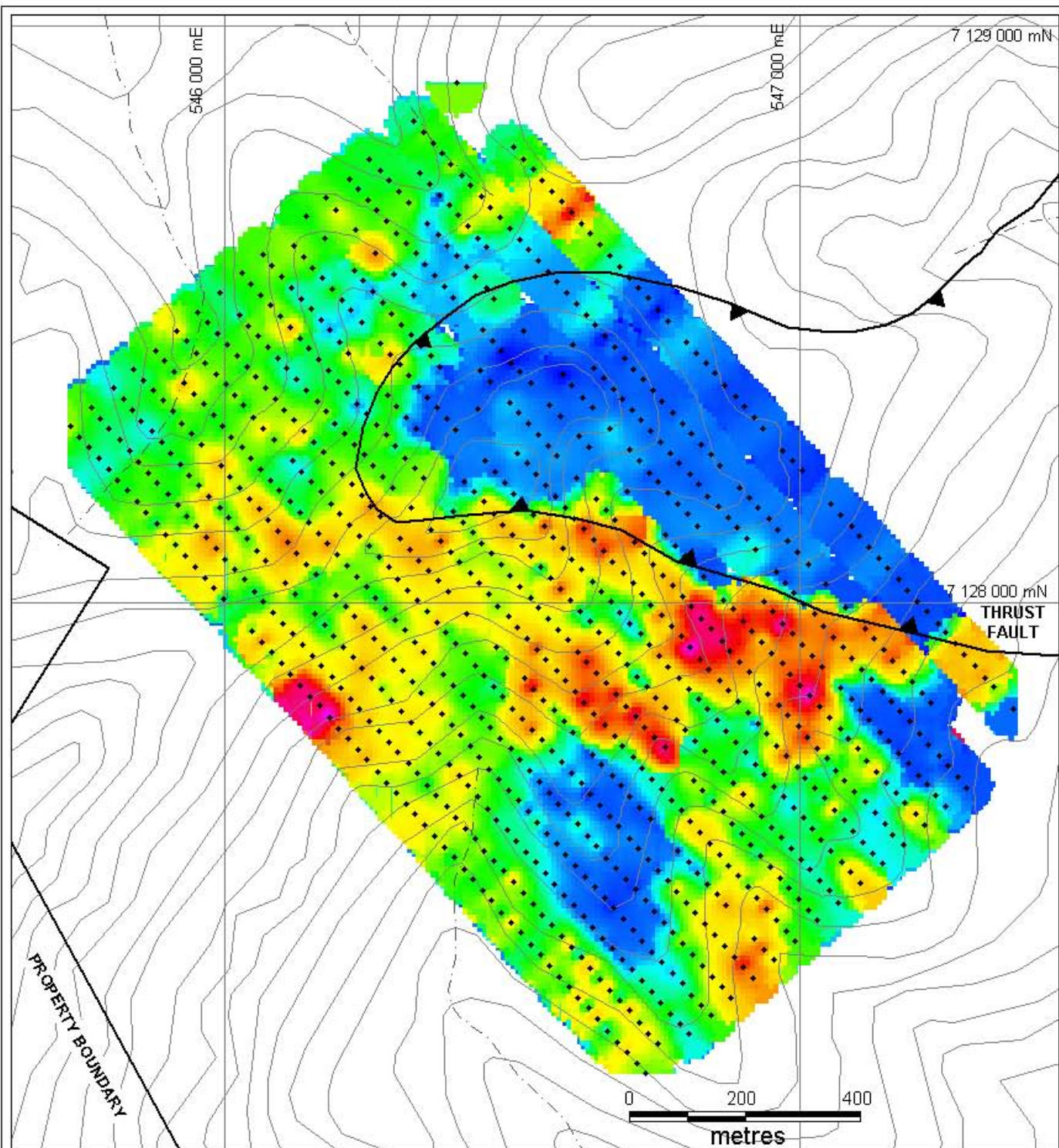
## LEAD GEOCHEMISTRY

### ZAP PROPERTY

UTM Zone 9, NAD83, NTS 105G/16

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DATE: APRIL 2007



Zinc Geochemistry (ppm)

■	≥ 10,000
■	≥ 5,000 < 10,000
■	≥ 2,500 < 5,000
■	≥ 1,000 < 2,500
■	≥ 500 < 1,000
■	≥ 200 < 500
■	≥ 0 < 200

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FIGURE 8

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

## ZINC GEOCHEMISTRY

### ZAP PROPERTY

UTM Zone 9, NAD83, NTS 105G/16

FILE: .../LANBACKUP/ZAP/Zn.WOR

DATE: APRIL 2007

to topography and crosses drainages. Geochemical values on the north side of the klippe are weaker and more intermittent than those on the south side, which could be due in part to poor soil development on rocky slopes. None of Prism's drill holes tested the probable source of the strongest soil geochemical anomalies.

Prospecting by Strategic Metals in 2006 successfully relocated several of Prism's showings and produced assays that closely resemble those obtained by Prism. Test soil sampling also validated Prism's results.

Further work is definitely warranted and should include: additional claim staking on the east side of the property; grid and/or contour soil sampling around the east side of the klippe; detailed prospecting and mapping directly below the thrust fault to define area of brecciation and mineralization; and, diamond drilling to test the most prospective showings and soil geochemical anomalies.

Respectfully submitted

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

W.D. Eaton, B.Sc. Geology.

**REFERENCES**

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2006 Great Mining Camps of Canada 1-The History and Geology of the Keno Hill Silver Camp, Yukon Territory; Geoscience Canada, Vol. 33, No.3, pp 103-134
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1980 Geology, Geochemistry and Diamond Drilling at the Zap Property, Yukon Territory, assessment report for Prism Joint Venture.
- Roots, C.  
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**APPENDIX I**  
**STATEMENT OF QUALIFICATIONS**

## STATEMENT OF QUALIFICATIONS

I, W. Douglas Eaton, geologist, with business addresses in Whitehorse, Yukon Territory and Vancouver, British Columbia and residential address in North Vancouver, British Columbia, hereby certify that:

1. I graduated from the University of British Columbia in 1980 with a B.Sc. majoring in Geological Sciences.
2. From 1971 to present, I have been actively engaged in mineral exploration in British Columbia and Yukon Territory and on June 1, 1981, became a partner in Archer, Cathro & Associates (1981) Limited.
3. I have personally participated in or supervised the field work reported herein and have interpreted all data resulting from this work.

W. Douglas Eaton, B.Sc. Geology

**APPENDIX II**  
**CERTIFICATES OF ANALYSIS**



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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C/O ARCHER, CATHRO & ASSOCIATES (1981)  
LIMITED  
1016-510 W HASTINGS ST  
VANCOUVER BC V6B 1L8

Page: 1  
Finalized Date: 17-OCT-2006  
Account: MTT

## CERTIFICATE VA06098423

Project: Zap

P.O. No.:

This report is for 16 Rock samples submitted to our lab in Vancouver, BC, Canada on 2-OCT-2006.

The following have access to data associated with this certificate:

AL ARCHER  
VANCOUVER OFFICE

DOUG EATON  
BILL WENGZYNOWSKI

JOAN MARIACHER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS

To: STRATEGIC METALS LTD.  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016-510 W HASTINGS ST  
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: \_\_\_\_\_

  
Keith Rogers, Executive Manager Vancouver Laboratory



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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Project: Zap

Page: 2 - A  
Total # Pages: 2 (A)  
Finalized Date: 17-OCT-2006  
Account: MTT

## CERTIFICATE OF ANALYSIS VA06098423

Sample Description	Method Analyte Units LOR	Au-AA23 Au ppm 0.005
C103075		0.011
C103078		<0.005
C103079		<0.005
C103080		0.022
C103083		<0.005
C103084		<0.005
C103085		<0.005
C103086		0.072
C103087		0.056
C103089		0.015
C103090		<0.005
C103091		0.005
C103098		0.008
C105905		<0.005
C105906		<0.005
C105907		0.036



# ALS Chemex

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ALS Canada Ltd.

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North Vancouver BC V7J 2C1

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1016-510 W HASTINGS ST  
VANCOUVER BC V6B 1L8

Page: 1  
Finalized Date: 16-OCT-2006  
Account: MTT

## CERTIFICATE VA06098422

Project: Zap

P.O. No.:

This report is for 12 Soil samples submitted to our lab in Vancouver, BC, Canada on 2-OCT-2006.

The following have access to data associated with this certificate:

AL ARCHER  
VANCOUVER OFFICE

DOUG EATON  
BILL WENGZYNOWSKI

JOAN MARIACHER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-02	Find Sample for Addn Analysis

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS

To: STRATEGIC METALS LTD.  
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Signature:

Keith Rogers, Executive Manager Vancouver Laboratory



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Project: Zap

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Total # Pages: 2 (A)  
Finalized Date: 16-OCT-2006  
Account: MTT

## CERTIFICATE OF ANALYSIS VA06098422

Sample Description	Method Analyte Units LOR	Au-AA23 Au ppm 0.005
CC14521		<0.005
CC14522		<0.005
CC14523		<0.005
CC14524		<0.005
CC14528		0.020
CC14529		<0.005
CC14531		0.007
CC14532		<0.005
CC14533		<0.005
CC14534		0.005
CC14535		0.005
CC14536		0.009



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Page: 1  
Finalized Date: 19-SEP-2006  
Account: MTT

## CERTIFICATE VA06081736

Project: Zap

P.O. No.:

This report is for 3 Rock samples submitted to our lab in Vancouver, BC, Canada on 14-AUG-2006.

The following have access to data associated with this certificate:

AL ARCHER  
VANCOUVER OFFICE

DOUG EATON  
BILL WENGZYNOWSKI

JOAN MARIACHER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Pb-OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Cu-OG46	Ore Grade Cu - Aqua Regia	VARIABLE
Zn-OG46	Ore Grade Zn - Aqua Regia	VARIABLE
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Ag-OG46	Ore Grade Ag - Aqua Regia	VARIABLE

To: STRATEGIC METALS LTD.  
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Signature: \_\_\_\_\_

Keith Rogers, Executive Manager Vancouver Laboratory



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Project: Zap

Page: 2 - A  
 Total # Pages: 2 (A - C)  
 Finalized Date: 19-SEP-2006  
 Account: MTT

## CERTIFICATE OF ANALYSIS VA06081736

Sample Description	Method Analyte Units LOR	WEI-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt.	Au	Ag	Al	B	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.005	0.2	0.01	10	2	10	0.5	2	0.01	0.5	1	1	1	0.01
B374785		1.46	<0.005	>100	0.04	<10	465	20	<0.5	<2	0.03	879	<1	1	>10000	0.30
B374786		2.08	<0.005	>100	0.05	<10	153	<10	<0.5	<2	0.02	593	<1	1	5230	0.57
B374787		2.72	<0.005	>100	0.18	<10	95	30	<0.5	<2	0.13	>1000	1	2	2430	0.49



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Project: Zap

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Finalized Date: 19-SEP-2006  
Account: MTT

## CERTIFICATE OF ANALYSIS VA06081736

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr
Units		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
LOR		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1
B374785		<10	246	0.01	<10	0.01	5	<1	<0.01	2	150	>10000	>10.0	>10000	<1	4
B374786		<10	141	0.01	<10	0.01	6	<1	<0.01	3	190	>10000	>10.0	>10000	<1	6
B374787		<10	465	0.05	<10	0.05	36	4	<0.01	3	330	>10000	2.93	5560	<1	4



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Project: Zap

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Account: MTT

## CERTIFICATE OF ANALYSIS VA06081736

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Pb-OG46	Cu-OG46	Zn-OG46
	Analyte	Ti	Ti	U	V	W	Zn	Ag	Pb	Cu	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
	LOR	0.01	10	10	1	10	2	1	0.01	0.01	0.01
B374785		<0.01	<10	<10	1	10	>10000	3210	55.2	1.16	7.98
B374786		<0.01	<10	<10	1	10	>10000	3920	>60		6.59
B374787		<0.01	<10	<10	2	10	>10000	2810	55.5		7.62



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Page: 1  
Finalized Date: 29-AUG-2006  
Account: MTT

## CERTIFICATE VA06077080

Project: Zap

P.O. No.:

This report is for 37 Soil samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2006.

The following have access to data associated with this certificate:

AL ARCHER  
VANCOUVER OFFICE

DOUG EATON  
BILL WENGZYNOWSKI

JOAN MARIACHER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Pb-OG46	Ore Grade Pb - Aqua Regia	VARIABLE
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES

To: STRATEGIC METALS LTD.  
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Signature:

Shaun Kenny, Brisbane Laboratory Manager



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Finalized Date: 29-AUG-2006  
Account: MTT

## CERTIFICATE OF ANALYSIS VA06077080

Sample Description	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	
	0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10	
CC14501	0.18	2.1	0.71	24	<10	70	<0.5	2	13.10	6.5	4	9	12	2.92	<10	
CC14502	0.18	0.9	0.39	43	<10	30	0.7	2	12.40	1.4	6	5	18	3.73	<10	
CC14503	0.14	0.4	0.64	28	<10	60	<0.5	<2	12.25	0.8	4	9	9	1.73	<10	
CC14504	0.14	0.7	0.46	19	<10	50	<0.5	<2	15.4	1.1	3	5	9	1.59	<10	
CC14505	0.16	0.5	0.92	14	<10	100	<0.5	2	9.93	1.8	6	12	11	2.37	<10	
CC14506	0.12	1.3	1.65	32	<10	180	0.7	2	2.19	5.7	10	24	25	4.53	<10	
CC14507	0.18	1.0	0.43	22	<10	50	<0.5	<2	14.15	1.9	4	7	10	1.73	<10	
CC14508	0.18	1.0	1.00	32	<10	140	0.5	<2	8.77	2.7	7	15	17	3.54	<10	
CC14509	0.20	0.8	0.87	27	<10	140	0.8	2	2.25	0.6	10	16	23	2.93	<10	
CC14510	0.18	<0.2	0.65	17	<10	40	<0.5	2	0.06	<0.5	4	11	9	2.72	<10	
CC14511	0.14	<0.2	1.80	12	<10	120	0.6	<2	0.24	0.5	9	26	18	2.86	<10	
CC14512	0.18	0.2	1.01	14	<10	80	<0.5	2	0.12	<0.5	9	15	13	2.05	<10	
CC14513	0.18	0.4	0.51	15	<10	140	<0.5	<2	0.16	<0.5	8	7	11	1.56	<10	
CC14514	0.26	<0.2	0.13	12	<10	50	<0.5	<2	0.05	<0.5	5	2	6	0.96	<10	
CC14515	0.14	0.4	0.61	19	<10	240	1.5	<2	0.18	<0.5	9	6	24	2.33	<10	
CC14516	0.18	0.2	0.63	13	<10	180	0.6	<2	0.31	<0.5	9	12	15	1.90	<10	
CC14517	0.20	<0.2	0.70	14	<10	240	0.5	<2	0.22	<0.5	9	15	19	2.04	<10	
CC14518	0.32	1.1	0.36	31	<10	260	1.0	<2	0.13	5.0	9	3	6	1.50	<10	
CC14519	0.24	1.0	0.42	63	<10	330	2.7	<2	0.25	0.8	143	3	41	4.49	<10	
CC14520	0.18	0.2	0.21	22	<10	280	<0.5	<2	0.06	<0.5	6	4	7	1.19	<10	
CC14521	0.20	8.6	0.31	71	<10	1090	<0.5	<2	9.90	16.9	5	5	24	2.14	<10	
CC14522	0.12	29.1	0.36	65	<10	1120	<0.5	<2	4.52	23.2	4	6	29	1.87	<10	
CC14523	0.20	3.6	0.07	56	<10	60	<0.5	<2	17.3	27.0	2	1	15	3.66	<10	
CC14524	0.18	8.3	0.35	27	<10	750	<0.5	<2	15.0	10.1	4	3	16	1.75	<10	
CC14525	0.12	0.6	1.54	27	<10	560	0.6	<2	0.26	2.6	8	25	18	3.96	<10	
CC14526	0.14	1.1	0.64	35	<10	120	<0.5	<2	12.60	1.8	6	8	13	3.24	<10	
CC14527	0.12	1.5	0.65	40	<10	240	<0.5	<2	11.25	5.7	4	7	15	3.91	<10	
CC14528	0.18	3.4	0.30	39	<10	30	<0.5	<2	16.2	13.1	3	4	13	2.26	<10	
CC14529	0.14	0.5	0.25	12	<10	40	<0.5	<2	16.7	1.6	1	3	5	1.53	<10	
CC14530	0.28	3.9	0.73	47	<10	60	<0.5	<2	10.40	2.9	4	10	13	2.44	<10	
CC14531	0.12	9.9	0.86	244	<10	80	<0.5	<2	7.27	5.0	6	12	37	5.97	<10	
CC14532	0.12	4.0	0.63	23	<10	40	<0.5	<2	12.05	8.3	3	7	10	3.33	<10	
CC14533	0.22	36.5	0.64	131	<10	1800	<0.5	<2	9.98	58.1	6	6	49	2.11	<10	
CC14534	0.20	39.7	0.56	113	<10	2520	<0.5	<2	8.88	81.9	6	5	58	1.74	<10	
CC14535	0.22	53.2	0.57	156	<10	2080	<0.5	<2	7.50	69.6	4	6	56	2.28	<10	
CC14536	0.22	85.7	0.55	244	<10	1130	<0.5	<2	2.64	46.6	4	9	68	3.09	<10	
CC14537	0.24	4.4	0.76	45	<10	1340	0.7	<2	3.54	3.2	13	9	23	6.67	<10	



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Total # Pages: 2 (A - C)  
Finalized Date: 29-AUG-2006  
Account: MTT

Project: Zap

## CERTIFICATE OF ANALYSIS VA06077080

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	0.01
CC14501		2	0.03	10	8.78	2290	1	0.03	10	600	805	0.09	6	1	25	0.02
CC14502		1	0.08	10	8.16	633	3	0.03	17	260	224	0.07	6	3	32	<0.01
CC14503		1	0.03	10	8.27	909	3	0.02	12	420	67	0.04	5	1	21	0.02
CC14504		1	0.02	<10	9.74	1185	1	0.03	9	620	103	0.08	3	1	28	0.01
CC14505		1	0.04	10	6.78	1715	1	0.03	12	780	140	0.07	<2	1	22	0.02
CC14506		1	0.06	10	1.26	2770	1	0.02	29	1270	277	0.11	3	2	17	0.03
CC14507		1	0.03	<10	9.41	908	1	0.03	11	370	199	0.04	6	1	40	0.02
CC14508		1	0.05	10	5.87	2120	1	0.03	18	640	273	0.07	2	3	30	0.02
CC14509		<1	0.07	10	1.38	824	1	0.02	24	870	61	0.03	2	4	24	0.03
CC14510		<1	0.04	10	0.12	198	1	0.01	10	200	44	0.01	<2	1	6	0.04
CC14511		1	0.05	10	0.43	352	1	0.01	24	560	71	0.02	<2	3	14	0.04
CC14512		<1	0.04	10	0.28	388	1	0.01	19	400	33	0.02	2	2	11	0.03
CC14513		<1	0.05	10	0.11	719	<1	0.01	10	380	112	0.03	3	1	8	0.01
CC14514		<1	0.04	<10	0.03	180	<1	0.01	6	100	53	0.01	2	1	3	<0.01
CC14515		<1	0.15	<10	0.16	221	1	0.01	14	610	113	0.07	3	4	22	<0.01
CC14516		<1	0.06	10	0.22	512	1	0.01	17	630	33	0.03	<2	3	22	0.02
CC14517		<1	0.06	10	0.25	252	1	0.01	20	690	29	0.02	3	2	22	0.03
CC14518		1	0.07	10	0.05	201	1	0.01	12	630	173	0.07	4	3	64	<0.01
CC14519		1	0.12	<10	0.10	1670	2	0.01	102	740	79	0.16	5	13	28	<0.01
CC14520		<1	0.03	<10	0.03	93	1	0.01	11	390	58	0.03	2	1	7	0.01
CC14521		3	0.06	<10	6.54	706	2	0.02	10	350	2210	0.25	34	2	26	<0.01
CC14522		4	0.10	<10	2.66	412	2	0.02	10	380	7450	0.32	74	2	17	0.01
CC14523		2	0.02	<10	11.00	1170	1	0.02	6	40	2230	1.6	13	1	71	<0.01
CC14524		2	0.03	<10	9.45	901	1	0.03	9	150	2170	0.27	20	2	26	<0.01
CC14525		<1	0.05	10	0.41	1055	1	0.02	22	700	278	0.04	4	2	11	0.03
CC14526		<1	0.03	<10	8.41	2320	2	0.03	14	640	164	0.06	4	2	30	0.01
CC14527		<1	0.03	<10	7.34	3960	1	0.03	11	990	376	0.12	5	1	27	0.01
CC14528		16	0.02	<10	10.10	1740	1	0.03	9	260	535	0.07	13	1	34	0.01
CC14529		<1	0.02	<10	10.60	1345	<1	0.03	2	430	132	0.05	2	1	20	0.01
CC14530		2	0.04	10	7.02	1280	1	0.02	11	440	1555	0.05	10	2	24	0.02
CC14531		6	0.04	10	4.62	1815	2	0.02	16	560	3880	0.09	58	2	20	0.02
CC14532		3	0.02	<10	8.13	3490	1	0.03	6	440	2300	0.06	5	1	20	0.01
CC14533		11	0.04	<10	6.44	794	2	0.03	12	470	9090	0.15	73	2	21	<0.01
CC14534		15	0.04	<10	5.51	488	2	0.03	10	270	>10000	0.17	72	2	20	<0.01
CC14535		27	0.05	<10	4.58	367	2	0.03	10	420	>10000	0.23	123	2	20	<0.01
CC14536		52	0.07	<10	1.52	213	3	0.02	10	610	>10000	0.29	189	2	22	<0.01
CC14537		2	0.11	10	1.89	2720	1	0.02	22	680	665	0.14	18	7	18	0.01



# ALS Chemex

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Project: Zap

Page: 2 - C  
Total # pages: 2 (A - C)  
Finalized Date: 29-AUG-2006  
Account: MTT

## CERTIFICATE OF ANALYSIS VA06077080

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Pb-OG46
	Analyte	Tl	U	V	W	Zn	Pb
	Units	ppm	ppm	ppm	ppm	ppm	%
	LOR	10	10	1	10	2	0.01
CC14501		<10	<10	19	<10	2100	
CC14502		<10	<10	12	<10	869	
CC14503		<10	<10	20	<10	584	
CC14504		<10	<10	14	<10	391	
CC14505		<10	<10	26	<10	541	
CC14506		<10	<10	48	<10	1185	
CC14507		<10	10	17	<10	572	
CC14508		<10	<10	35	<10	824	
CC14509		<10	<10	33	<10	205	
CC14510		<10	<10	37	<10	73	
CC14511		<10	10	45	<10	96	
CC14512		<10	<10	29	<10	99	
CC14513		<10	<10	16	<10	101	
CC14514		<10	<10	6	<10	35	
CC14515		<10	<10	13	<10	101	
CC14516		<10	<10	24	<10	100	
CC14517		<10	<10	28	<10	103	
CC14518		<10	<10	7	<10	923	
CC14519		<10	<10	9	<10	296	
CC14520		<10	<10	13	<10	142	
CC14521		<10	10	10	<10	2520	
CC14522		<10	10	13	<10	2930	
CC14523		<10	10	3	<10	2860	
CC14524		<10	10	7	<10	2200	
CC14525		<10	<10	54	<10	723	
CC14526		<10	10	19	<10	681	
CC14527		<10	10	20	<10	1170	
CC14528		<10	10	9	<10	2920	
CC14529		<10	10	6	<10	628	
CC14530		<10	10	22	<10	889	
CC14531		<10	10	27	<10	3140	
CC14532		<10	10	15	<10	2660	
CC14533		<10	10	12	<10	6700	
CC14534		<10	10	9	<10	6430	1.17
CC14535		<10	10	13	<10	6340	1.78
CC14536		<10	10	20	<10	4530	3.32
CC14537		<10	<10	21	<10	557	



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Page: 1  
Finalized Date: 29-AUG-2006  
Account: MTT

## CERTIFICATE VA06076729

Project: Zap

P.O. No.:

This report is for 35 Rock samples submitted to our lab in Vancouver, BC, Canada on 27-JUL-2006.

The following have access to data associated with this certificate:

AL ARCHER  
VANCOUVER OFFICE

DOUG EATON  
BILL WENGZYNOWSKI

JOAN MARIACHER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Pb-OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Zn-OG46	Ore Grade Zn - Aqua Regia	VARIABLE
ME-ICPDil	Dilution elements by ICPAES	ICP-AES
ME-ICP41	34 Element Aqua Regia ICP-AES	ICP-AES
Ag-OG46	Ore Grade Ag - Aqua Regia	VARIABLE

To: STRATEGIC METALS LTD.  
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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Project: Zap

## CERTIFICATE OF ANALYSIS VA06076729

Sample Description	Method Analyte Units LOR	WEI-21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
C103075		1.06	6.8	0.70	4580	<10	100	<0.5	<2	0.15	84.4	8	4	21	12.15	<10
C103076		0.70	2.4	0.06	7370	<10	400	<0.5	5	0.18	7.2	<1	<1	81	>50	<10
C103077		0.54	17.0	0.24	4870	<10	160	<0.5	4	0.12	21.9	<1	<1	68	>50	<10
C103078		1.10	>100	0.04	49	<10	410	<0.5	<2	0.12	449	1	4	149	1.36	<10
C103079		0.98	>100	0.04	148	<10	170	<0.5	2	0.51	158.0	1	3	136	1.81	<10
C103080		0.52	29.5	0.17	2260	<10	10	<0.5	6	0.12	4.5	<1	3	168	48.9	<10
C103081		1.20	38.5	0.32	1335	10	2290	<0.5	<2	0.30	25.4	3	6	91	14.35	<10
C103082		0.20	19.2	0.13	1275	<10	30	<0.5	7	0.09	11.1	48	5	75	>50	<10
C103083		1.28	>100	0.04	47	<10	70	<0.5	3	0.10	>1000	10	1	979	1.06	<10
C103084		0.64	>100	0.04	40	<10	100	<0.5	4	0.24	>1000	3	<1	815	0.85	<10
C103085		1.12	68.8	0.13	103	<10	2380	<0.5	<2	0.16	203	5	4	93	3.46	<10
C103086		0.92	>100	0.10	84	<10	280	<0.5	<2	0.07	331	7	14	83	1.66	<10
C103087		0.18	17.1	0.16	1395	<10	150	<0.5	6	0.22	6.8	41	4	59	>50	<10
C103088		0.26	19.1	0.11	6680	<10	70	<0.5	4	0.21	8.6	9	<1	70	50.0	<10
C103089		1.86	>100	0.04	34	<10	150	<0.5	<2	0.13	590	1	5	57	0.79	<10
C103090		0.46	>100	0.03	81	<10	90	<0.5	<2	0.01	115.5	<1	15	63	0.90	<10
C103091		0.70	>100	0.39	42	<10	190	<0.5	<2	0.03	302	<1	8	138	0.31	<10
C103092		0.62	26.8	0.30	186	<10	400	<0.5	<2	0.56	40.6	2	21	109	20.4	<10
C103093		0.90	9.1	0.65	1820	<10	170	<0.5	4	0.17	13.5	<1	40	271	47.2	30
C103094		0.62	38.5	0.04	350	<10	190	<0.5	<2	0.12	17.3	<1	1	45	7.43	<10
C103095		0.38	2.7	0.07	493	<10	200	<0.5	4	0.33	0.5	25	1	32	>50	<10
C103096		1.02	10.3	0.03	18	<10	560	<0.5	2	18.2	102.5	1	<1	16	1.22	<10
C103097		0.34	23.1	0.07	330	<10	40	<0.5	7	0.30	16.9	5	<1	39	>50	<10
C103098		0.78	36.4	0.03	39	<10	50	<0.5	<2	17.3	268	1	<1	23	1.28	<10
C103099		1.06	8.5	0.09	1875	<10	30	<0.5	9	0.18	13.9	<1	<1	79	>50	<10
C103100		0.42	30.9	0.24	58	<10	1300	<0.5	<2	3.21	39.8	2	5	23	0.94	<10
C105901		0.60	56.1	0.22	97	<10	990	<0.5	<2	1.05	25.3	1	6	26	1.86	<10
C105902		0.96	2.1	0.43	24	10	130	0.5	<2	10.20	8.1	7	4	28	2.42	<10
C105903		1.02	60.6	0.05	19	<10	940	<0.5	<2	0.07	3.5	1	10	25	0.68	<10
C105904		1.10	5.5	0.54	68	10	570	0.6	<2	7.83	392	8	7	131	2.67	<10
C105905		0.58	>100	0.02	19	<10	30	<0.5	<2	0.04	12.6	1	6	46	0.36	<10
C105906		1.28	>100	0.07	84	<10	10	<0.5	<2	0.04	434	<1	4	722	0.52	<10
C105907		5.60	>100	0.03	51	<10	10	<0.5	<2	0.03	538	1	<1	816	0.76	<10
C105908		2.40	>100	0.10	30	<10	940	<0.5	<2	0.08	20.7	<1	21	21	0.48	<10
C105909		0.84	56.2	0.24	55	<10	160	<0.5	<2	17.5	160.0	3	3	23	1.27	<10



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Finalized Date: 29-AUG-2006  
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## CERTIFICATE OF ANALYSIS VA06076729

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti
Units		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%
LOR		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	0.01
C103075		9	0.03	<10	0.06	138	4	<0.01	22	250	1790	0.10	278	2	3	<0.01
C103076		4	0.02	<10	0.21	807	14	0.01	2	20	718	0.56	98	5	<1	<0.01
C103077		5	0.01	<10	0.12	999	6	0.01	8	10	8560	1.56	67	6	1	<0.01
C103078		77	0.01	<10	0.04	44	1	<0.01	3	140	>10000	0.49	506	<1	3	<0.01
C103079		63	0.01	<10	0.27	55	<1	<0.01	3	80	>10000	0.68	617	<1	5	<0.01
C103080		58	0.06	<10	0.08	203	5	0.01	7	260	>10000	0.30	303	3	1	<0.01
C103081		21	0.02	<10	0.13	107	1	0.01	9	200	>10000	0.15	71	1	4	<0.01
C103082		11	0.05	<10	0.09	416	52	0.01	76	220	4610	0.27	131	1	<1	<0.01
C103083		312	0.01	<10	0.09	431	<1	<0.01	16	100	>10000	0.82	1700	<1	3	<0.01
C103084		575	0.01	<10	0.07	163	1	<0.01	7	60	>10000	1.35	2340	<1	13	<0.01
C103085		147	0.03	<10	0.07	142	1	<0.01	12	260	>10000	0.18	272	<1	6	<0.01
C103086		130	0.03	<10	0.02	156	1	<0.01	10	220	>10000	0.91	308	<1	3	<0.01
C103087		20	0.04	<10	0.11	893	18	0.01	58	1370	1415	0.16	276	2	6	<0.01
C103088		7	0.05	<10	0.10	345	9	0.01	30	70	>10000	0.26	67	6	4	<0.01
C103089		144	0.01	<10	0.02	28	<1	<0.01	3	40	>10000	0.53	268	<1	17	<0.01
C103090		133	0.01	<10	<0.01	14	<1	<0.01	1	150	>10000	0.92	517	<1	6	<0.01
C103091		314	0.02	<10	0.01	8	<1	<0.01	1	90	>10000	1.59	347	1	5	<0.01
C103092		4	0.05	<10	0.33	77	3	0.01	28	1510	7170	0.40	45	2	16	<0.01
C103093		4	0.10	<10	0.11	<5	1	0.01	20	800	7300	0.28	50	2	3	<0.01
C103094		15	0.02	<10	0.05	33	1	<0.01	4	170	7870	0.45	80	<1	37	<0.01
C103095		2	0.01	<10	0.51	210	2	0.01	17	170	286	0.11	30	1	1	<0.01
C103096		74	0.01	<10	11.20	1985	<1	0.02	3	30	1680	0.5	14	<1	108	<0.01
C103097		13	<0.01	<10	0.17	322	2	0.01	18	50	>10000	0.10	41	1	1	<0.01
C103098		280	0.01	<10	10.65	1675	<1	0.02	4	60	9350	0.9	60	<1	118	<0.01
C103099		33	0.02	<10	0.31	233	6	<0.01	16	70	529	0.71	275	3	<1	<0.01
C103100		16	0.06	<10	1.85	169	1	0.01	5	120	5830	0.13	46	1	15	<0.01
C105901		40	0.06	<10	0.59	74	1	<0.01	4	190	>10000	0.16	82	1	11	<0.01
C105902		1	0.14	<10	6.50	1110	<1	0.01	12	550	161	0.07	15	4	30	<0.01
C105903		8	0.02	<10	0.03	18	<1	<0.01	2	170	>10000	0.15	137	<1	13	<0.01
C105904		1	0.15	<10	4.90	968	<1	0.01	10	530	1065	0.11	51	4	20	<0.01
C105905		15	0.01	<10	0.02	8	<1	<0.01	1	90	>10000	2.35	1220	<1	8	<0.01
C105906		298	0.03	<10	0.01	6	<1	<0.01	1	180	>10000	4.23	6290	2	7	<0.01
C105907		120	<0.01	<10	0.01	<5	<1	<0.01	4	40	>10000	>10.0	5020	<1	3	<0.01
C105908		26	0.03	<10	0.04	14	1	<0.01	1	90	>10000	0.24	176	<1	7	<0.01
C105909		3	0.03	<10	10.95	735	1	0.02	9	130	8280	<0.01	115	2	25	<0.01



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## CERTIFICATE OF ANALYSIS VA06076729

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-OG46	Pb-OG46	Zn-OG46	ME-ICPDil
		Tl	U	V	W	Zn	Ag	Pb	Zn	Pb
		ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
		10	10	1	10	2	1	0.01	0.01	0.01
C103075		<10	<10	3	<10	9690				
C103076		<10	<10	10	<10	1370				
C103077		<10	<10	12	<10	8300				
C103078		<10	<10	<1	10	>10000	335	7.72	4.50	
C103079		<10	10	1	20	>10000	538	12.35	2.02	
C103080		10	<10	10	<10	5100		1.62		
C103081		<10	<10	7	<10	6380		1.07		
C103082		<10	<10	11	30	>10000			2.65	
C103083		<10	<10	1	20	>10000	766	13.75	21.1	
C103084		<10	10	<1	20	>10000	2050	41.9	21.6	
C103085		<10	10	2	<10	>10000		1.72	2.33	
C103086		<10	10	1	20	>10000	280	6.62	3.77	
C103087		<10	<10	8	<10	7230				
C103088		<10	<10	13	30	>10000		2.67	1.45	
C103089		<10	<10	<1	20	>10000	305	6.65	5.37	
C103090		<10	<10	1	20	>10000	487	10.00	1.26	
C103091		<10	<10	1	10	>10000	262	5.13	3.24	
C103092		<10	<10	10	<10	9430				
C103093		<10	<10	74	<10	5560				
C103094		<10	<10	1	<10	3650				
C103095		<10	<10	10	<10	1615				
C103096		<10	<10	1	<10	>10000			2.27	
C103097		<10	<10	7	40	>10000		1.78	2.41	
C103098		<10	10	2	<10	>10000			4.45	
C103099		20	<10	14	<10	9910				
C103100		<10	<10	5	<10	3030				
C105901		<10	<10	7	<10	2650		1.11		
C105902		<10	<10	11	<10	567				
C105903		<10	<10	1	<10	368		1.06		
C105904		<10	<10	13	10	>10000			1.36	
C105905		<10	<10	1	<10	763	1250	25.8		
C105906		<10	<10	2	20	>10000	2440	42.4	1.78	
C105907		<10	<10	<1	20	>10000	4010	>60	5.84	71.1
C105908		<10	<10	2	<10	1925	119	2.47		
C105909		<10	10	8	<10	3320				

**APPENDIX III**  
**ROCK SAMPLE DESCRIPTIONS**

## Rock Sample Descriptions

Project: ZAPProperty: ZAP

Page 1 of

Sample Number: C103075  
 Grid North: 7127948  
 UTM: 7127948  
 Elevation: m  
 Grid East: 546905  
 UTM: 546905  
 Elevation: m  
 Type: SE-ZAP-02  
 Sample Width:  
 Dimension: 20x10x10 cm  
 Abundance: 1 pc.  
 Comments: orange-brown, slightly manganiferous limonite

Sample Number: C103076  
 Grid North: 7127926  
 UTM: 7127926  
 Elevation: m  
 Grid East: 546887  
 UTM: 546887  
 Elevation: m  
 Type: SE-ZAP-03  
 Sample Width:  
 Dimension: 25x20x10 cm  
 Abundance: in 2x2 m area, 5 pcs, this sample was the largest.  
 Comments: orange-purple weathered manganiferous limonite

Sample Number: C103077  
 Grid North: 7127908  
 UTM: 7127908  
 Elevation: m  
 Grid East: 546853  
 UTM: 546853  
 Elevation: m  
 Type: SE-ZAP-04  
 Sample Width:  
 Dimension: up to 15 cm wide  
 Abundance: x 2.5 m long  
 Comments: purple/orange stained massive py + limonite vein in gray weathering dolomite o/c  
 ↳ maybe only a pocket.

Sample Number: C103078  
 Grid North: 7127922  
 UTM: 7127922  
 Elevation: m  
 Grid East: 546830  
 UTM: 546830  
 Elevation: m  
 Type: SE-ZAP-05  
 Sample Width:  
 Dimension: 50x40x20 cm  
 Abundance:  
 Comments: brown weathered, dark gray-black carbonaceous rock w blebby gn

Sample Number: C103079  
 Grid North: 7127922  
 UTM: 7127922  
 Elevation: m  
 Grid East: 546830  
 UTM: 546830  
 Elevation: m  
 Type: SE-ZAP-06  
 Sample Width:  
 Dimension: grab sample  
 Abundance:  
 Comments: grab sample from various rocks (same type as C103078) in a float train, some with barite + chert.

Sample Number: C103080  
 Grid North: 7128524  
 UTM: 7128524  
 Elevation: m  
 Grid East: 546324  
 UTM: 546324  
 Elevation: m  
 Type: SE-ZAP-07  
 Sample Width:  
 Dimension: 12x8x3 cm  
 Abundance: 1 pc. in 10x10 m area  
 Comments: brown weathered orange limonite

## Rock Sample Descriptions

Project: ZAP Property: ZAP

Page 1 of

Sample Number: C103081 Grid North: N UTM: 7127892 Elevation: m Grid East: N UTM: 546648 E Type: SE-ZAP-08 Sample Width: Dimension: 20x10x10cm Abundance: 1 pc. in 10m x 10m float area

Comments: orange weathered barite / chert brxx w orange limonite + manganiferous limonite in patches

Sample Number: C103082 Grid North: N UTM: 7127698 Elevation: m Grid East: N UTM: 546822 E Type: SE-ZAP-09 Sample Width: Dimension: 7x5x3cm Abundance: 2 pcs

Comments: orange-brown limonite in float below an o/c of crystalline gray dolomite

Sample Number: C103083 Grid North: N UTM: 7127603 Elevation: m Grid East: N UTM: 547018 E Type: SE-ZAP-10 Sample Width: Dimension: 15x10x7cm Abundance: float area 2x1m

Comments: black carbonaceous unit w abun. blebby gn minor sph ( $\pm$  hydrozincite on weathered surfaces), check for tetrahedrite

Sample Number: C103084 Grid North: N UTM: 7127603 Elevation: m Grid East: N UTM: 547048 E Type: SE-ZAP-11 Sample Width: Dimension: Abundance: 2x1m-area

Comments: grab sample of a few pieces of same rock type as C103083

Sample Number: C103085 Grid North: N UTM: 7127968 Elevation: m Grid East: N UTM: 547034 E Type: SE-ZAP-12 Sample Width: Dimension: 15x10x6cm Abundance: 1 pc.

Comments: brown weathered gray carbonaceous rock w xstalline reddish coating on fractures + in localized areas. Trace gn.

Sample Number: C103086 Grid North: N UTM: 7127832 Elevation: m Grid East: N UTM: 547022 E Type: SE-ZAP-13 Sample Width: Dimension: Abundance:

Comments: black carbonaceous brxx w barite + chert frags, blebs of gn, hydrozincite on weathered surfaces. From trench T-7.

## Rock Sample Descriptions

Project: ZAP Property: ZAP

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Sample Number: C103087  
 Grid North: N UTM: 7127892  
 Grid East: N UTM: 546886  
 Elevation: m  
 Type: SE-ZAP-14  
 Sample Width: E  
 Dimension: 8x6x3 cm  
 Abundance: 1 pc  
 Comments: orange, highly weathered limonite.

Sample Number: C103088  
 Grid North: N UTM:  
 Grid East: N UTM:  
 Elevation: m  
 Type: SE-ZAP-15  
 Sample Width: E  
 Dimension: ~10cm across  
 Abundance: 2 pockets  
 Comments: very orange limonite w blebs of gn. hosted in barite/chert brxx. Likely the source of C103087

Sample Number: C103089  
 Grid North: N UTM: 7127903  
 Grid East: N UTM: 546797  
 Elevation: m  
 Type: SE-ZAP-16  
 Sample Width: E  
 Dimension: from  
 Abundance: o/c 2x1m.  
 Comments: black carbonaceous brxx w barite + chert, blebby gn, possible tt and hydrozincite on weathered surfaces

Sample Number: C103090  
 Grid North: N UTM: 71278000  
 Grid East: N UTM: 546707  
 Elevation: m  
 Type: SE-ZAP-17  
 Sample Width: E  
 Dimension:  
 Abundance: sm. o/c.  
 Comments: black carbonaceous brxx w barite + chert, minor blebs gn

Sample Number: C103091  
 Grid North: N UTM: 7128017  
 Grid East: N UTM: 546686  
 Elevation: m  
 Type: SE-ZAP-18  
 Sample Width: E  
 Dimension:  
 Abundance: float below o/c.  
 Comments: black carbonaceous brxx w barite + chert, trace gn

Sample Number: C103092  
 Grid North: N UTM: 7128094  
 Grid East: N UTM: 546647  
 Elevation: m  
 Type: SE-ZAP-19  
 Sample Width: E  
 Dimension: 10x8x4 cm  
 Abundance: 1 pc  
 Comments: gray-brown weathered, black carbonaceous unit w brown limonite

## Rock Sample Descriptions

Project:

ZAP

Property:

ZAP

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Sample Number: C103093

Grid North: UTM: 7128134

N

Grid East: UTM: 546586

N

E

Type: SE-ZAP-20

Dimension: abun. float in

E

Sample Width: float

Abundance: zone 5 x 1.5m

Elevation: m

Comments: brown-orange limonite

Sample Number: C103094

Grid North: UTM: 7128129

N

Grid East: UTM: 546621

N

E

Type: SE-ZAP-21

Dimension: 15 x 8 x 4 cm

E

Sample Width: float

Abundance: 1 pc.

Elevation: m

Comments: gray weathered barite &amp; orange limonite

Sample Number: C103095

Grid North: UTM: 7127889

N

Grid East: UTM: 546462

N

E

Type: SE-ZAP-22

Dimension: 4x3x3cm, 6x4x4cm

E

Sample Width: float

Abundance: 2 pcs.

Elevation: m

Comments: orange-brown-red weathered limonite in float

Sample Number: C103096

Grid North: UTM: 7127936

N

Grid East: UTM: 546444

N

E

Type: SE-ZAP-23

Dimension: 25 x 15 x 10 cm

E

Sample Width: float

Abundance:

Elevation: m

Comments: orange-gray-weathered, gray fresh dolomite brxx with carb. cement. Minor blebby gn.

Sample Number: C103097

Grid North: UTM: 7128038

N

Grid East: UTM: 546413

N

E

Type: SE-ZAP-24

Dimension: 2x2cm to 6x3x3cm

E

Sample Width: float

Abundance: 6 pcs. in area.

Elevation: m

Comments: orange to manganiferous limonite 3x1m

Sample Number: C103098

Grid North: UTM: 7127181

N

Grid East: UTM: 546342

N

E

Type: SE-ZAP-25

Dimension: in float below

E

Sample Width:

Abundance: o/c.

Elevation: m

Comments: orange-gray weathered carb.-filled dolomite brxx &amp; minor blebby gn, hydrokinite on weathered surfaces.

**Rock Sample Descriptions**

Project: ZAP Property: ZAP

Sample Number: C103099 Grid North: N 7127871 Grid East: N 546333 E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: 7127871 UTM: 546333 E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: m

Comments: 1 large boulder + numerous smaller pieces in float down gully of orange, brown, slightly manganoiferous limonite

Sample Number: C105907 Grid North: N 7127613 Grid East: N 547063 E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: 7127613 UTM: 547063 E Sample Width: \_\_\_\_\_ Abundance: In trench ~ 2m long x 1m wide x 40cm deep v. abun!  
 Elevation: m

Comments: massive galena + minor black carbonate. weathers white.

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: m

Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: m

Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: m

Comments: \_\_\_\_\_

Sample Number: \_\_\_\_\_ Grid North: \_\_\_\_\_ N Grid East: \_\_\_\_\_ E Type: \_\_\_\_\_ Dimension: \_\_\_\_\_  
 UTM: \_\_\_\_\_ N UTM: \_\_\_\_\_ E Sample Width: \_\_\_\_\_ Abundance: \_\_\_\_\_  
 Elevation: m

Comments: \_\_\_\_\_