1990 EXPLORATION REPORT

ON

WOLVERINE AND QUICK CLAIMS OF

THE GOLDEN BEAR ROAD PROJECT

NTS 104J/4

VOLUME I

OWNERS: NORTH AMERICAN METALS (B.C.) INC.,
#1000 - 700 WEST PENDER STREET,
VANCOUVER, B.C.
V6C 1G8

AND

CHEVRON MINERALS LTD.
#400 - 815 WEST HASTINGS STREET,
VANCOUVER, B.C.
V6C 3G9

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DATE: DECEMBER, 1990

Distribution
1 - NAM
1 - Chevron
1 - field
2 - Gov't

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SUMMARY

Airborne magnetics and EM, grid-controlled soil sampling in the area of the Wolverine showing, reconnaissance-style soil sampling over roughly half of the property and trenching mainly in the area of the Wolverine showing were all part of the 1990 work program on the Golden Bear Road Project.

The Wolverine showing contains economic grades however, it is structurally complex, exhibits poor continuity and is of limited size potential. The showing does contain mineralized trends which subparallel nearby, larger-scale airphoto lineaments, geophysical trends and to a lesser extent, soil geochemical anomalies.

At the Wolverine showing the largest vein or lens of massive pyrite is 8 meters long and returned grades of less than 1 to 4 ounces per ton gold over a 0.4 meter width. Several smaller disjointed veins or lenses of massive pyrite returned up to 0.47 ounces per ton gold, however some lenses are barren or only weakly anomalous.

Several large Au-Cu soil anomalies were outlined in the southwestern part of the Wolverine claim group by widely-spaced reconnaissance soil sampling. The largest gold soil anomaly measures approximately 1.5km x 1.0km and contains a strongly anomalous core that measures 700m x 250m. The soil anomalies cover a contact zone between Jurassic diorite and upper Triassic volcanic rocks; vein or porphyry Au-Cu type mineralization are both possible although neither have been located in float or outcrop in this area.

1.0 INTRODUCTION

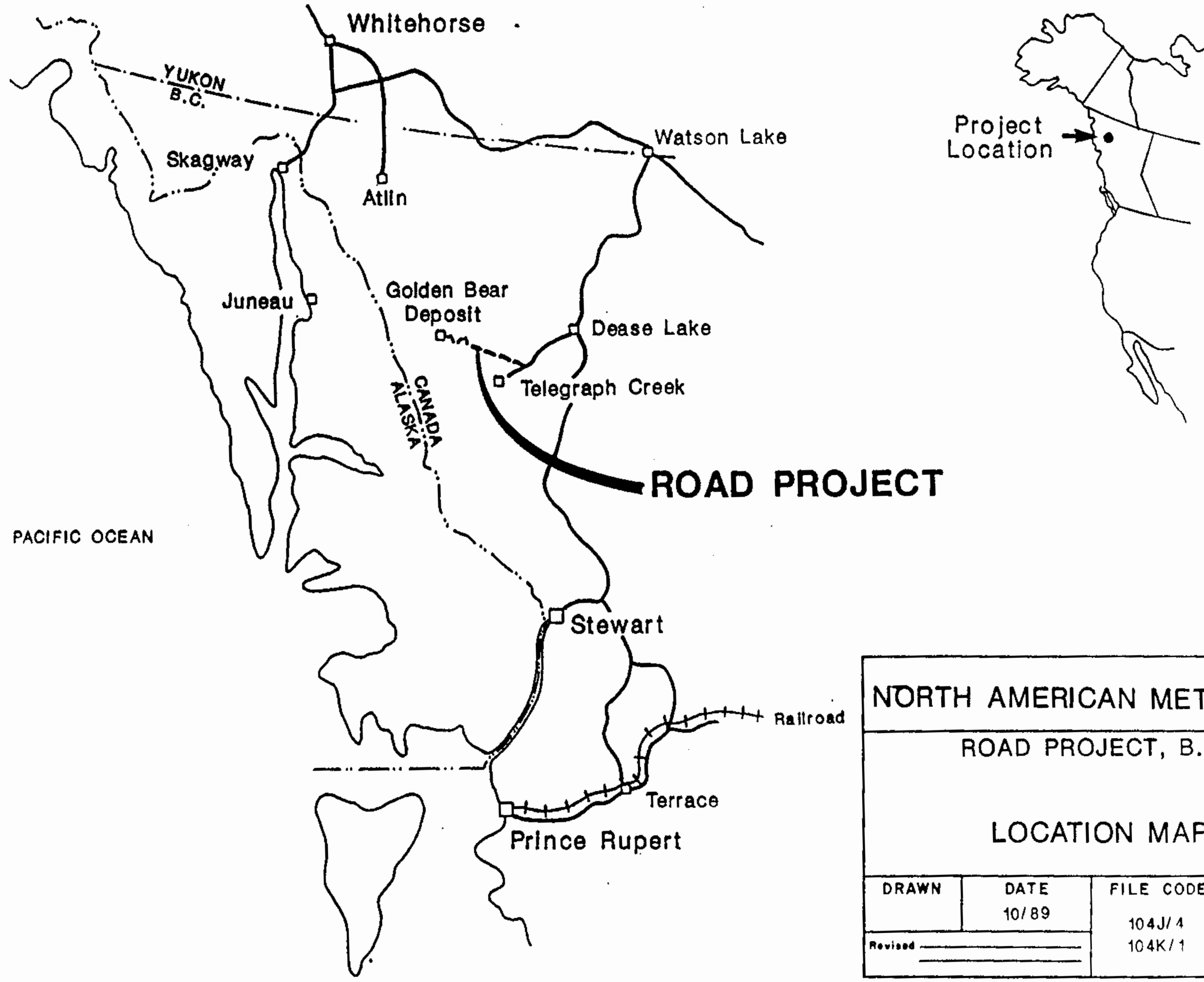
1.1 PURPOSE

The Road Project was initially conceived as a 50/50 joint venture between Chevron Minerals Limited (Chevron) and North American Metals (NAM) to explore along the Golden Bear Mine access road which is located in northwestern British Columbia. The main focus of the 1990 work was to evaluate the potential of the Wolverine claims particularly in the area of a new showing where high sulphide vein material returned less than 1, to more than 4 opt Au.

1.2 LOCATION, ACCESS AND TOPOGRAPHY

The Wolverine claims are located in northwestern British Columbia (Figure 1) approximately 40 kilometres northwest of Telegraph Creek between kilometres 67 and 89 on the Golden Bear Mine road (Figure 2). The Wolverine claim block is centred at 58° 07'N latitude and 131° 40'W longitude on NTS sheet 104J/4E. The adjacent Quick claims are located to the west on NTS sheet 104J/4W.

Access is from Dease Lake, B.C. via the Telegraph Creek road to the Golden Bear Mine road, both are good all weather gravel roads. Alternate access is via helicopter from a year round base at Dease Lake, a summer helicopter base at Telegraph Creek, float plane from Telegraph Creek to the road maintenance camp at kilometre 90, and wheel plane to gravel airstrips at the Golden Bear Mine, kilometre 50 and kilometre 92 on the mine access road.



NORTH AMERICAN METALS CORP.			
ROAD PROJECT, B.C.			
LOCATION MAP			
DRAWN	DATE 10/89	FILE CODE 104J/4 104K/1	FIGURE 1
Revised			

The property is situated in rolling mountainous terrain east of the Coast Mountains; elevations range between 975 and 1725 meters. Spruce, jack pine and small poplar trees cover most of the property in solid but easily traversed stands. Roughly 5% of the property is above treeline which is at about 1500m.

1.3 LAND STATUS AND AGREEMENT

The Road Project is comprised of 18 claims totalling 325 units and covering an area of 8,125 ha (20,077 acres). A summary of the claims is listed below:

TABLE 1

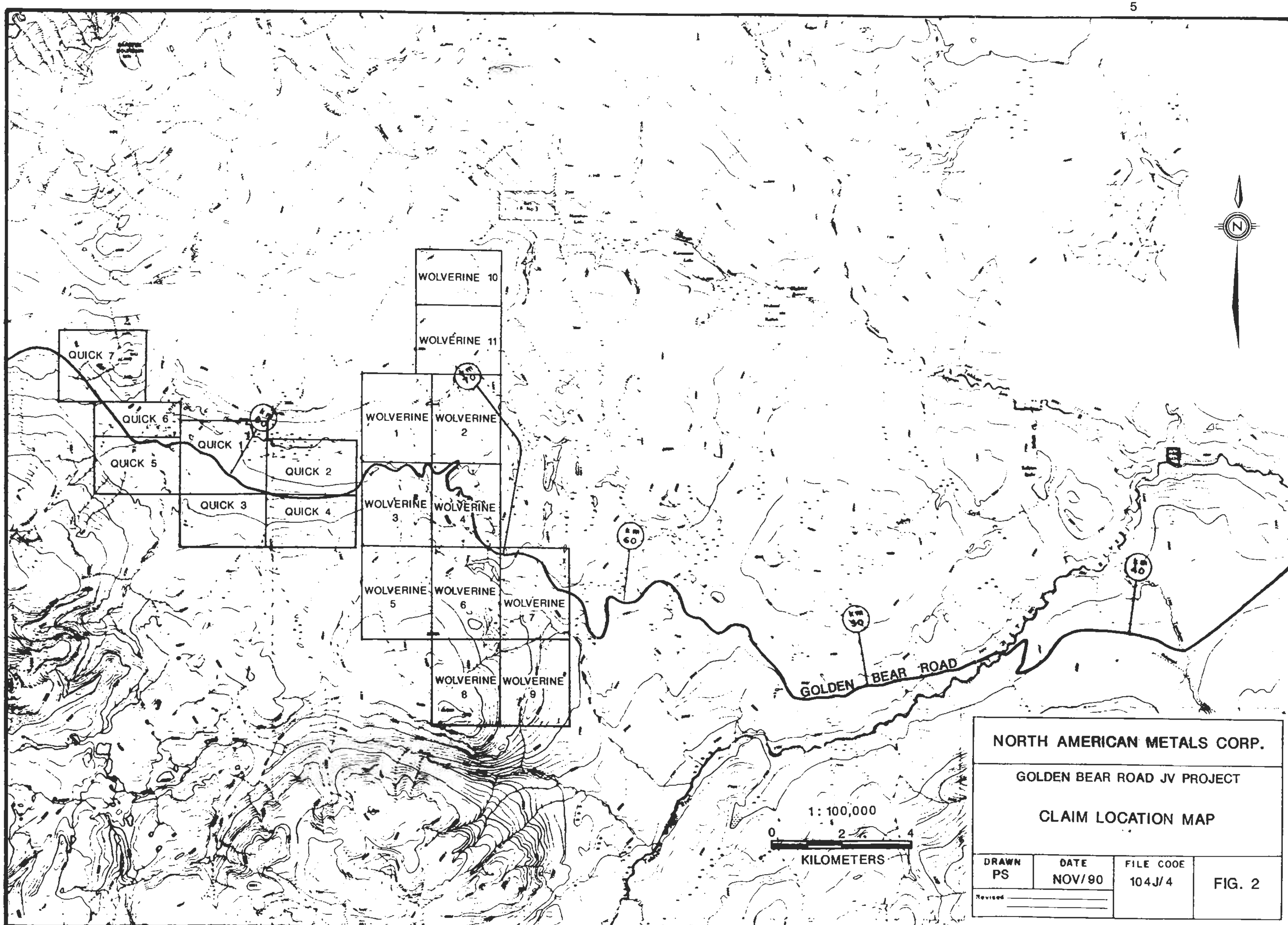
CLAIM NAME	UNITS	RECORD NO.	RECORD DATE	EXPIRY DATE
Wolverine 1	20	3906	Nov. 25, 1989	Nov. 25, 1998
Wolverine 2	20	3898	Nov. 24, 1989	Nov. 25, 1998
Wolverine 3	20	3899	Nov. 25, 1989	Nov. 25, 1998
Wolverine 4	20	3907	Nov. 25, 1989	Nov. 25, 1998
Wolverine 5	20	3900	Dec. 02, 1989	Dec. 02, 1998
Wolverine 6	20	6620	Nov. 27, 1989	Nov. 27, 1994
Wolverine 7	20	6621	Nov. 28, 1989	Nov. 28, 1993
Wolverine 8	20	6622	Nov. 29, 1989	Nov. 29, 1993
Wolverine 9	20	6623	Nov. 29, 1989	Nov. 29, 1993
Wolverine 10	15	3908	Nov. 30, 1989	Nov. 30, 1992
Wolverine 11	20	3909	Nov. 30, 1989	Nov. 30, 1992
Quick 1	20	3915	Nov. 26, 1989	Nov. 26, 1991
Quick 2	15	3916	Nov. 25, 1989	Nov. 25, 1991
Quick 3	15	3901	Nov. 26, 1989	Nov. 26, 1991
Quick 4	15	3902	Nov. 27, 1989	Nov. 27, 1992
Quick 5	15	3903	Nov. 30, 1989	Nov. 30, 1991
Quick 6	10	3904	Nov. 28, 1989	Nov. 28, 1991
Quick 7	20	3905	Dec. 01, 1989	Dec. 01, 1991

These claims are part of 50/50 joint venture agreement between Chevron and NAM. NAM, the current operator, has the option of earning a 50% interest in three other claim groups, the Bandit, Slam and Misty Nie, by carrying $1 million of Chevron's expenditures on any of the Road Project claims or on the Bandit, Slam and Misty Nie properties. Consequently, all expenditures in 1990 are to NAM's account.

1.4 EXPLORATION HISTORY

The limited exploration of this area in the past dates back to the 1870's when prospectors headed for the Klondike gold fields, via the Stikine River route, unloaded at Telegraph Creek. A more significant period of activity occurred during the 1960's and early 1970's when the area was explored for porphyry Cu mineralization by numerous major companies. Several showings of low grade Cu were located and included minor porphyry Cu mineralization discovered by Sumitomo Metal Mining Canada Ltd. in 1971 and 1972 in the southern part of the Wolverine Group.

In 1988 Chevron and NAM began construction on a 155 kilometre long access road to their Golden Bear Mine. During construction, the road was mapped and sampled which resulted in the discovery of the Wolverine showing at kilometre 75. Follow-up work on this showing in 1989 uncovered a vein of massive sulphides carrying significant gold and copper grades. The property was staked in November 1989 following the removal of a staking moratorium along the road corridor.



NORTH AMERICAN METALS CORP.

GOLDEN BEAR ROAD JV PROJECT

CLAIM LOCATION MAP

DRAWN	DATE	FILE CODE	
PS	NOV/90	104J/4	FIG. 2

Revised

1.5 1990 WORK PROGRAM

An airborne magnetometer and VLF survey was flown over the Wolverine and Quick claims in April 1990 and plotted at a scale of 1:10,000 (Figures 8.1a to c and 8.2a to c). The magnetometer data helped delineate major intrusive bodies in the southwest portion of the claims and poorly exposed Triassic flows and sediments in the east portion of the claims.

Surface work began in June with a trenching program at the Wolverine showing to expose mineralization and fault structures. A 25 line km grid was established over the showing area after the initial phase of trenching was complete because the grid orientation was based on structural information from the trenches. Soil sampling, mapping, and geophysical surveys were conducted on the grid. Wide-spaced reconnaissance traverses were used to explore the Wolverine 1 to 7 claims for other targets. Soil and stream silt samples were collected along the traverse lines and outcrops visible from the lines were mapped and sampled.

The lithologic legend was revised from the previous Road Project reports to include only the units mapped on the Wolverine claims (see Table 2).

2.0 GEOLOGY

2.1 REGIONAL GEOLOGY

The property is located in an area of uplift known as the Stikine Arch, which forms part

TABLE 2

LEGEND

LITHOLOGIES

INTRUSIVE

Jurassic

SYT	Syenite

Triassic

HPD	Hornblende Porphyry Dykes
DRT	Diorite
MDT	Monzodiorite
FPD	Feldspar Porphyry Dykes

SUPRACRUSTAL

Upper Triassic

Stuhini Group
Clastics

SAR	Argillites

Volcanics

SUD	Undifferentiated
SMV	Mafic, fine-grained volcanics
SMT	Mafic Tuffs
SAG	Agglomerate
SAP	Augite Porphyry
SFP	Feldspar Porphyry
SAFP	Augite-Feldspar Porphyry
STA	Trachytic Andesite
	1. Fine-grained, felty feldspar < 1cm
	2. Coarse-grained feldspar > 1cm

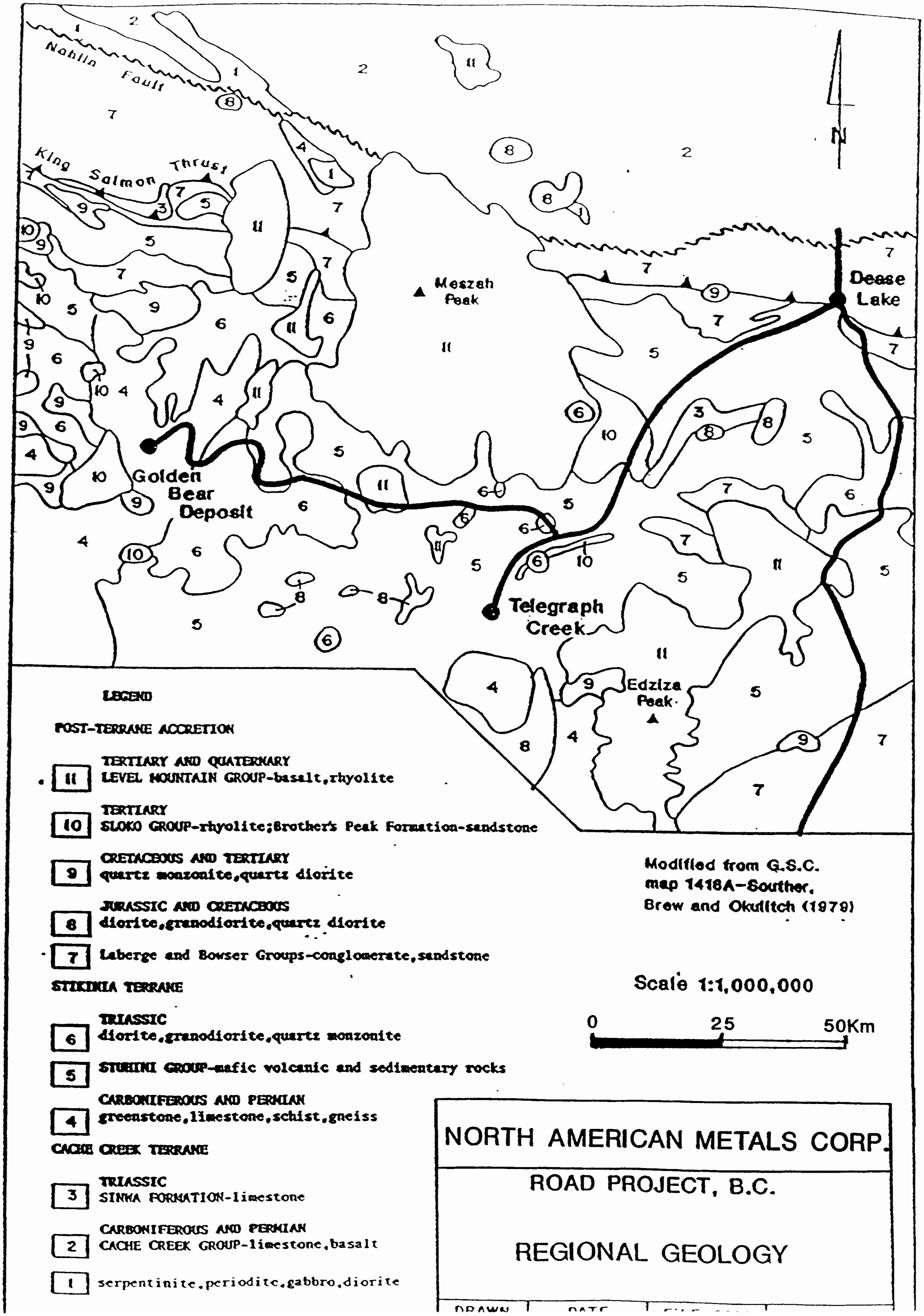
of the Stikine Terrane (Figure 3). The Arch consists primarily of Paleozoic, Triassic and Jurassic island arc rocks and is discordant to the major northwest structural grain of the Coast Plutonic Complex because it defines a northeast trending belt of uplift. Devonian to Permian limestones, argillites, cherts, volcanic and epiclastic rocks are the oldest in the Arch and are located 30 kilometres to the west of the property where they host the Golden Bear Mine.

Oceanic arc rocks of the upper Triassic Stuhini Group overlie the Paleozoic units. These vary from mafic to intermediate subaqueous flows to epiclastic sediments. Within the project area, the units were deposited in shallow subaqueous to subareal environments.

The Stikine Arch rocks are intruded by late Triassic to early Jurassic quartz diorite to hornblende diorite and minor monzonite dykes and stocks.

The youngest rocks exposed within the project area are basaltic flows of the Late Tertiary Level Mountain Group; these sourced from a large basaltic shield cone north of the claims. Some flows near Hearts Peaks and in the Stikine Canyon overlie glacial till and are of Pleistocene age.

The rocks in this region have been strongly deformed primarily by folding and faulting during three main periods of deformation (Oliver and Hodgson, 1988). The first period, of middle Triassic or earlier age, formed tight, north-trending, upright antiforms and synforms. Broader second stage northwest-trending open folds were caused by east-west shortening during the Jurassic. A series of normal fault structures is the youngest period of deformation, and was caused by extensional tectonics during the Tertiary.


Nahlin Fault
King Salmon Thrust
Meszah Peak
Dease Lake
Golden Bear Deposit
Telegraph Creek
Edziza Peak
N
LEGEND
POST-TERRANE ACCRETION
11 TERTIARY AND QUATERNARY
LEVEL MOUNTAIN GROUP-basalt,rhyolite
10 TERTIARY
SLOKO GROUP-rhyolite;Brother's Peak Formation-sandstone
9 CRETACEOUS AND TERTIARY
quartz monzonite,quartz diorite
8 JURASSIC AND CRETACEOUS
diorite,granodiorite,quartz diorite
7 Laberge and Bowser Groups-conglomerate,sandstone
STIKINIA TERRANE
6 TRIASSIC
diorite,granodiorite,quartz monzonite
5 STUHINI GROUP-mafic volcanic and sedimentary rocks
4 CARBONIFEROUS AND PERMIAN
greenstone,limestone,schist,gneiss
CACHE CREEK TERRANE
3 TRIASSIC
SINWA FORMATION-limestone
2 CARBONIFEROUS AND PERMIAN
CACHE CREEK GROUP-limestone,basalt
1 serpentinite,periodite,gabbro,diorite
Modified from G.S.C.
map 1418A-Souther,
Brew and Okulitch (1979)
Scale 1:1,000,000
0
25
50Km
NORTH AMERICAN METALS CORP.
ROAD PROJECT, B.C.
REGIONAL GEOLOGY

2.2 PROPERTY GEOLOGY

Upper Triassic Stuhini volcanics in the east and north and a late Triassic to early Jurassic quartz diorite to diorite pluton in the southwest are the two main rock types that underlie the property (Figure 4.1a). The volcanics form a north-trending belt of moderately west-dipping (average 45°) mafic tuffs, agglomerate, trachytic andesite, augite and feldspar porphyritic flows and mafic volcanics of uncertain character. Thin argillite units are interbedded with the trachytic andesite and mafic volcanics.

The diorite is the northern portion of a large pluton which is located south and west of the property where it has altered Stuhini volcanics in the Sheslay River and Stikine Assemblage rocks in the Samotua River drainages. Although mainly intermediate in composition, the intrusion includes tonalite or quartz diorite, monzodiorite and monzonite. A syenite intrusion, of uncertain but perhaps younger age than the diorite, occurs west of the Wolverine claims and immediately south of the Quick claims.

2.2.1 STRATIGRAPHY

Within the project area, Stuhini volcanics form a conformable sequence of interbedded flows, sediments and volcanoclastics that have been tilted to the west (Fig. 4.1a). Based on argillite units within the volcanic sequence, beds dip between 34° and 80° and average 47°.

<u>STA - Stuhini trachytic andesite</u>

This unit is grey to dark green and contains glassy to white plagioclase crystals that are up to 15mm in length. The crystals are subhedral to euhedral, make up 5 - 25% of the rock and exhibit a weak preferential orientation. The fine-grained to microcrystalline groundmass consists of >10% interstitial K-feldspar that is obscured in thin section by clay "dusting" but is visible on kspar stained slabs.

The trachytic andesite is divided into two sub-units distinguished by the shape and size of feldspar crystals:

1) felty, anhedral feldspars <1 centimetre long, and

2) subhedral to euhedral feldspars >1 centimetre long

The coarser plagioclase phenocrysts show weak to moderate sericitic and "clay" alteration dusting while mafic minerals are replaced by chlorite and lesser sericite. Epidote and carbonate are also part of the alteration assemblage.

Trachytic andesite is a useful marker unit because it is laterally continuous within the project area.

<u>SAR - Stuhini argillite</u>

Thin beds of argillite lie within trachytic andesite and mafic volcanic units in the eastern and central part of the property. The beds are usually less than 5 meters thick but they may be up to 50 meters thick in recessive areas where exposure is poor. The best exposures of the unit are in road cuts between kilometres 69 and 74. The argillite is black to dark grey, aphanitic to microcrystalline, slaty, and well laminated. The strike and dip of the volcanic stratigraphy is based on measurements taken from this well layered unit.

SAP - Stuhini augite porphyritic basalt

Augite porphyritic flows are common in the Stuhini Group and easily identified by the glassy green to black crystals of augite. Within the map area, it occurs as homogenous flows and as the main constituent in a heterogeneous agglomerate. Augite phenocrysts comprise 5 to 15% of the rock and are generally subhedral to anhedral, 3 to 7 millimetres in size and weakly chloritized. The groundmass is dark green, aphanitic to microcrystalline and locally hosts amygdaloidal carbonate fillings.

SAFP - Stuhini augite feldspar porphyritic basalt

The SAFP is found in a single outcrop in the southern part of the mapped area and probably represents a local variation of the widespread augite porphyritic basalt. It is aphanitic, dark grey-green and contains 5 to 7% feldspar phenocrysts as well as augite. The feldspars are light grey to white, subhedral, and 5 to 7 millimetres long.

SAG - Stuhini agglomerate

The agglomerate is one of the most distinctive and abundant volcanic units on the property. It forms a 200 meter thick layer which overlies the trachytic andesite and thickens to greater than two kilometres on the Wolverine 2 claim in the north east part of the property (Fig. 4.1a). The clasts in the agglomerate are primarily composed of augite porphyritic basalt; clasts of mafic tuff, augite-feldspar porphyritic basalt and limestone are less common. The clasts are subangular to rounded and range between 2 and 30 centimetres but average 20cm in size. Augite porphyritic basalt forms the matrix but is less resistant than the clasts resulting in very rough weathered surfaces.

SMV - Stuhini mafic volcanic

The mafic volcanics are massive, fine grained, dark green rocks with minor amounts of pyrite and traces of other sulphides. Microcrystalline feldspars in the rock has been saussuritized.

SMT - Stuhini mafic tuff

The mafic tuff is a discretely laminated unit that is similar to the mafic volcanics in appearance. It is greenish grey to grey and has a fine grained to microcrystalline texture. Fine grained angular fragments differentiate this unit from the other volcanics.

SUD - Stuhini undifferentiated

The term "undifferentiated" applies to volcanic rocks found in rubble crop and float where outcrop control is poor and contacts are hard to define.

2.2.2 INTRUSIVE ROCKS

HPD - Hornblende porphyritic dykes

Hornblende porphyritic dykes are found in the south-central part of the mapped area around the periphery of the diorite. They are grey with coarse black hornblende crystals up to 2 centimetres in length and lesser amounts of smaller augite and plagioclase phenocrysts. The matrix is close packed, intermediate sized crystals of plagioclase with interstitial K-feldspar. The dykes are older than, or coeval with the diorite intrusion and are likely genetically related to the diorite.

The thin section observations indicate diverse alteration in the dyke. Plagioclase is strongly altered to sericites and augite is moderately to strongly altered to clusters of chlorite, epidote and carbonate; hornblende is relatively unaltered. Groundmass alteration includes secondary amphibole, chlorite, carbonate and epidote.

FPD - Feldspar porphyritic dykes

Compositionally these dykes are similar to the hornblende porphyritic dykes. Plagioclase is the dominant phenocryst phase whereas augite and hornblende are less common in these dykes. The matrix consists of fine felted plagioclase and interstitial K-feldspar.
The dykes are found in the central part of the map area near kilometres 70 and 71 on the mine road.

DRT - Diorite, tonalite

The diorite is fine to medium grained, grey and usually equigranular although it contains some coarse-grained hornblende crystals; it is generally fresh-looking despite weak to moderate sericite and chlorite alteration. Plagioclase, hornblende, augite and lesser biotite phenocrysts interlock and are anhedral. The rock contains minor to locally abundant magnetite associated with mafic minerals. Diorite found at the head of Wolverine Creek is foliated and moderately epidote altered. Tonalite, or quartz-diorite, was rarely seen but does occur as local phase variations in the larger bodies of diorite. The quartz is fine-grained and difficult to see in hand specimens. Consequently, tonalite may be more common than noted.

A small stock of diorite occurs in the southeast corner of the property. The limits of the stock are well defined by the airborne magnetics survey because the diorite contains approximately 5% disseminated pyrrhotite and lesser magnetite. The diorite has the same texture and mineralogy as previously described and is likely related to the Jurassic pluton.

MDT - Monzodiorite, monzonite, hornblende granodiorite

Local stocks, sills and dykes of monzodiorite to granodiorite are K-feldspar enriched phases of the Jurassic intrusion. They exhibit a fine to medium-grained texture and up to 10% very fine grained interstitial quartz.

SYT - Syenite

A syenite intrusion of unknown, but perhaps younger age underlies the Quick 4 claim. It is composed of coarse elongate K-feldspar and interstitial hornblende and minor biotite. The K-feldspar has perthitic plagioclase intergrowths and is moderately altered to clay. Its relation to the Jurassic pluton is unknown.

2.3 STRUCTURE

Detailed mapping at the Wolverine showing (Figure 6.1a) identified at least three fault trends characterized by zones of shearing and significant gouge development. Two trends host gold and copper mineralization and are probably coeval; the third is post-mineral.

The most dominant structural feature is a 030° to 000° fault trend which follows the Wolverine Creek valley to the south. Landsat imagery identifies a minor lineament along this trend that extends from Hatchau Lake to the headwaters of Harper Reed Creek located 20 km to the south. Within the property, two major faults and several small shear zones follow the trend. One of the faults, located immediately south and east of the Wolverine showing, has produced a 20 meter wide gouge zone. The gouge zone was located by a strong VLF conductor coincident with a strong Genie HLEM anomaly (Figures 7c and 7e) and tested by three trenches (Figures 6.3, 6.4 and 6.5, see Fig. 5a for trench locations). The other fault has sheared the volcanic stratigraphy in a roadcut west of K72 camp (Figure 4.1a). Both faults are associated with broad recessive zones. The faults at the Wolverine showing are narrow, generally less than 1 meter wide, and tend to meander back and forth while maintaining the overall strike direction of the fault trend. Small lenses of massive pyrite and chalcopyrite mineralization occur in these faults.

The second set of faults trend 060° to 070° and are thought to be an extensional set to the 030°-000° trend at the Wolverine showing. They occur as crosscutting joints, fractures and shears in the microcrystalline diorite. This trend contains most of the gold-bearing, high-sulphide disrupted veins found at the Wolverine showing, specifically in the #1 trench (Figure 6.2a). Elsewhere on the property, several lineaments that parallel and sub-parallel this trend are associated with offsets in the volcanic stratigraphy. Most of the assumed faults are covered by overburden except for a fault observed in roadcuts near kilometre 74 (Fig. 4.1a) which has significantly offset major blocks in the volcanic sequence. The fault zone is relatively narrow and unmineralized. The relation between this fault and other major parallel structures and the extensional faults and joints at the Wolverine showing is uncertain.

Late faults trend 160° to 180° and displace mineralization in both 020° and 060° fault trends at the main Wolverine showing.

Late movement is evident on all structural trends but it is most prominent on the 060° trend in the #1 trench (Fig. 6.2a). It has created a 0.5 to 1.0 meter wide brown gouge zone containing fragments of massive pyrite vein material. The brown gouge continues on-strike to the east of the #1 trench where it is unmineralized. Late movement on the 020° trend has disrupted small veins or pods of massive pyrite.

2.4 MINERALIZATION

Mineralization consists of pods or perhaps disrupted veins of massive pyrite and chalcopyrite which occur in fault gouge cutting a microcrystalline, marginal phase of the diorite. The largest segment of vein consists of massive pyrite and chalcopyrite and is approximately 8 meters long. It returned from less than 1 to up to 4.5 ounces per ton Au over a 0.4 meter width. Several smaller segments of massive pyrite returned grades up to 0.47 ounces per ton Au, however others are only weakly anomalous or barren. The segments of veins have been found only within the trenched areas at the main showing.

Mineralization on the other parts of the property consist mainly of finely disseminated pyrite in volcanic rocks and pyrite, chalcopyrite, pyrrhotite or magnetite in intrusive rocks.
Minor chalcopyrite stringers occur in altered volcanic rocks near the northern contact of the strongly magnetic diorite stock in the southeast corner of the property. A high-grade grab sample from the stringers returned 1.8% copper.

3.0 TRENCHING PROGRAM

A three phase trenching program was conducted over the course of the summer. The first two phases concentrated on the Wolverine showing and the third phase tested several geochemical and geophysical anomalies located north, south and east of the Wolverine showing. A wheel-driven hoe was employed for the first phase of trenching but a track hoe was required for the latter phases of the program to access targets in steeper terrain. Overburden cover on the Wolverine showing averages 50 cm but overburden depth around the showing area is generally 1 to 2 m.

A grid was established over the Wolverine showing trenches after they were washed with a high pressure water pump. The trench grid base line is 060°, parallel to the dominant fault structure in the #1 Trench. Channel samples were taken across the faults and sulphide pods in all of the trenches completed at the showing.

Table 3 lists the trenches completed, their approximate size and their location on the Wolverine grid. Figure numbers refer to the geology maps of the trenches.

TABLE 3

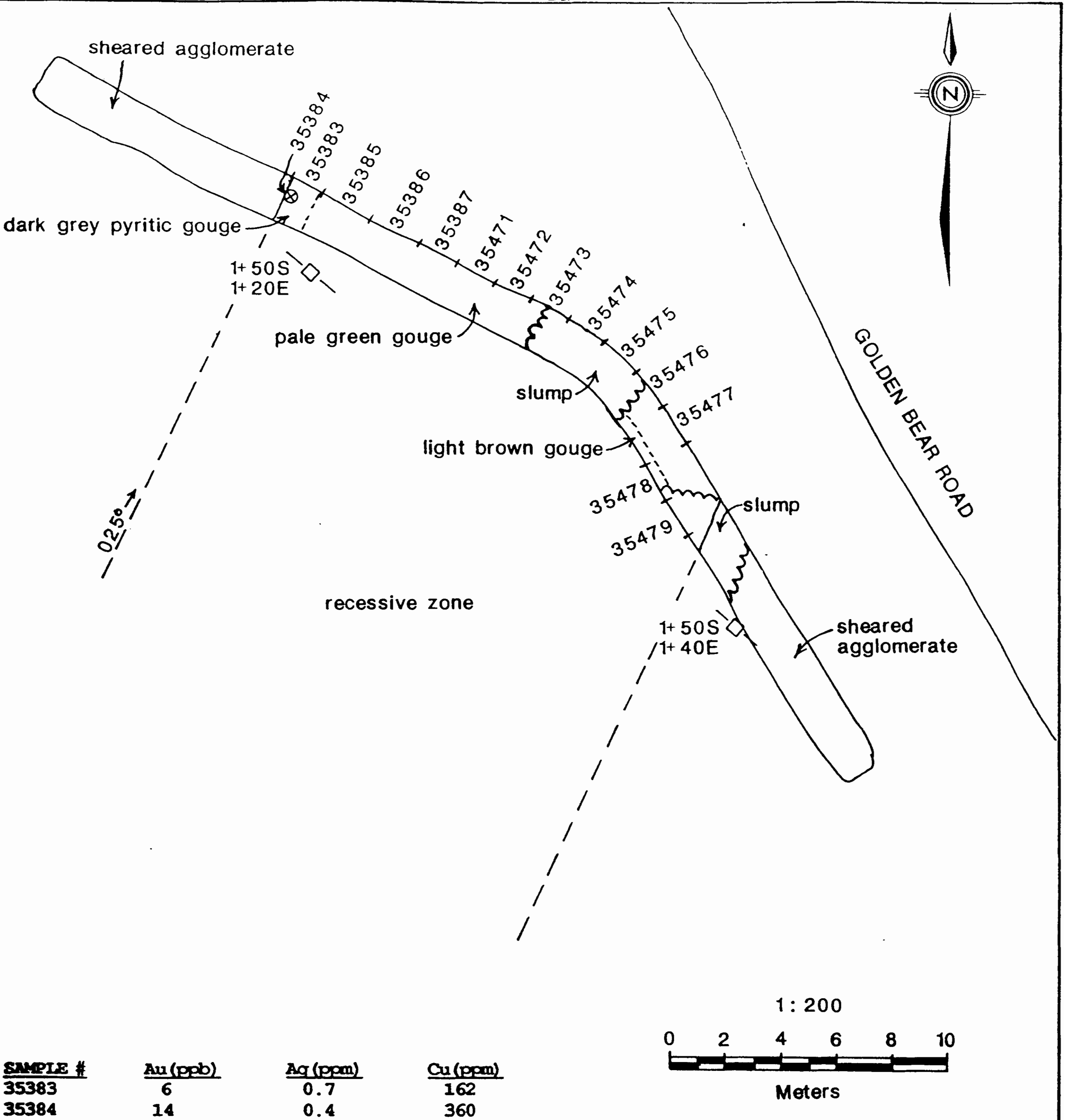
TRENCH NAME	SIZE	LOCATION	FIGURE
#1 Trench	49.0m x 38.0m	1+60S, 0+15W	6.2a, 6.1a
Squirrel	23.0m x 2.0m	1+25S, 0+08W	6.1a
Picket	45.0m x 2.0m	0+55S, 0+25E	6.1a
Fox Trenches	50.0m x 1.5m	1+50S, 0+86W	6.1a
	29.0m x 1.5m	1+05S, 0+74W	6.1a
	10.0m x 1.5m	1+25S, 0+78W	6.1a
WEST SLOPE TRENCHES			
A	19.0m x 11.0m	2+30S, 0+16W	6.1a
B	3.0m x 1.5m	2+23S, 0+02W	6.1a
C	7.0m x 3.5m	2+30S, 0+04W	6.1a
D	9.0m x 6.0m	2+47S, BL	6.1a
E	6.5m x 4.5m	2+40S, 0+13E	6.1a
F	5.5m x 2.0m	2+48S, 0+16E	6.1a

G	43.0m x 6.0m	2+50S, 0+25E	6.1a
H	4.0m x 2.0m	2+63S, 0+23E	6.1a
I	3.5m x 2.0m	2+70S, 0+24E	6.1a
J	16.0m x 10.0m	2+80S, 0+25E	6.1a
K	23.0m x 5.0m	2+80S, 0+50E	6.1a
L	8.0m x 3.0m	2+60S, 1+16E	6.1a
Bluejay	40.0m x 1.5m	1+46S, 1+30E	6.3, 5a
Water	14.0m x 1.5m	0+19S, 0+80E	6.4, 5a
China Trenches	6.0m x 1.5m	3+34S, 1+31E	6.5, 5a
	5.0m x 1.5m	3+38S, 1+60E	6.5, 5a
Hillside	22.0m x 1.5m	4+03S, 3+40E	6.6, 5a
Fred Trenches	6.0m x 1.5m	0+00, 3+20E	6.7, 5a
	7.0m x 1.5m	0+00, 3+56E	6.7, 5a
	9.0m x 1.5m	0+00, 3+90E	6.7, 5a
	15.0m x 1.5m	0+00, 4+15E	6.7, 5a
	7.0m x 1.5m	0+00, 4+35E	6.7, 5a

Trenching on the Wolverine showing focused on strongly gossanous zones along the slope of the hill. Trench #1 is centered on the massive sulphide pod or vein located during the 1989 follow up work. 1990 samples from across the pod returned >1 oz/ton gold over 0.9 m; this includes some wall rock dilution. Several smaller massive sulphide pods are located in close proximity to the larger sulphide pod (see figures 6.2a, c and d for locations and results) and their results are mentioned briefly under mineralization. The west slope trenches expose a series of north-trending faults with small pods of massive sulphides. Samples across the sulphide pods in these trenches returned mostly low values in gold and copper. The differences between these sulphide pods and those in the #1 Trench are not fully understood.

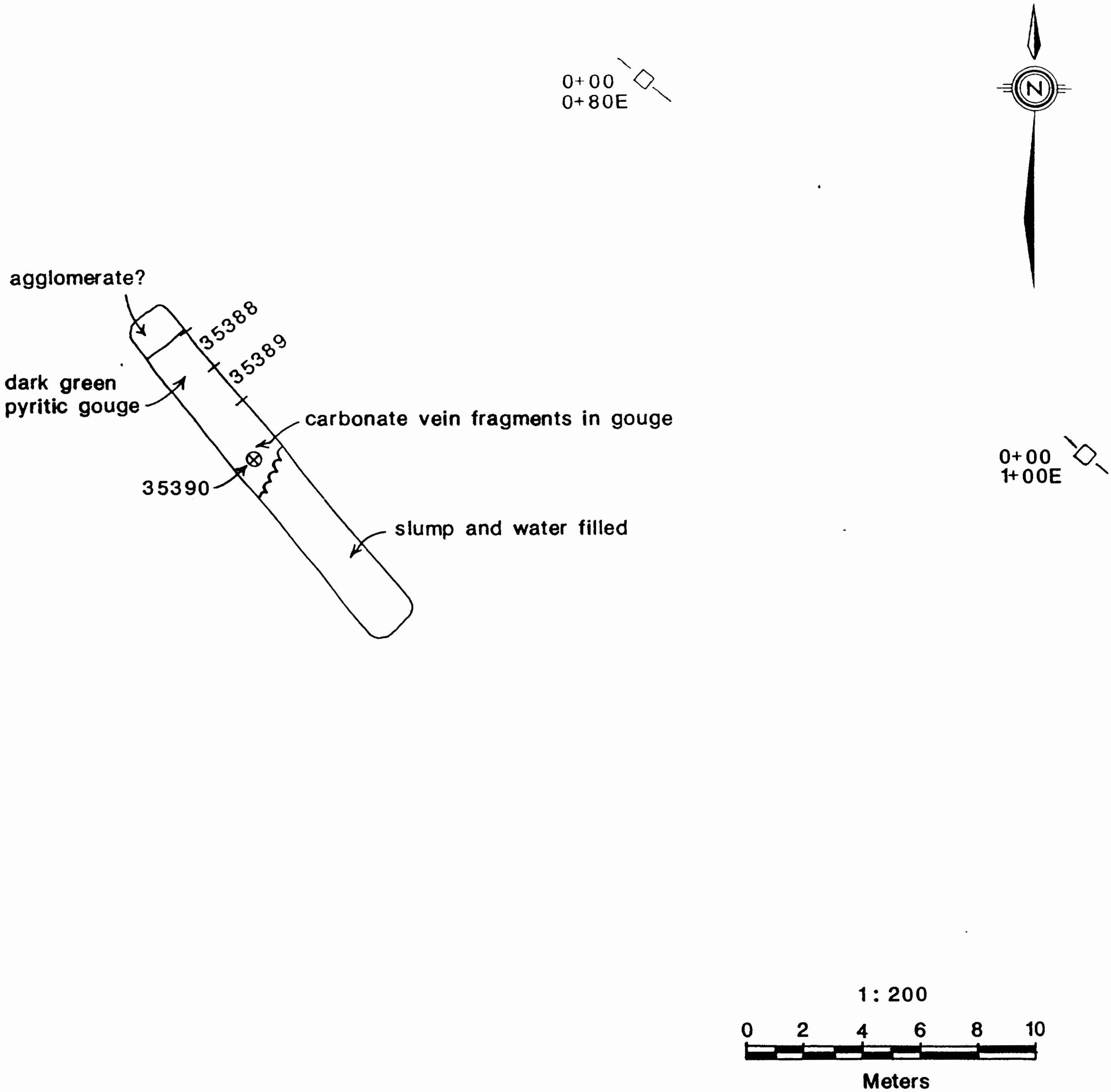
Phase 2 trenching expanded the #1 Trench and exposed more of the west slope gossan zone upslope from the first phase of trenching. Several small gold-rich sulphide pods were found in the new part of the #1 Trench and one of the West Slope Trenches. The Squirrel and Picket trenches (Figure 6.1a), also completed in this phase, trace the east extension of the 060° fault that hosts the 8 meter long sulphide pod in the #1 Trench. They expose the late faulting which has disrupted mineralization in the #1 Trench. Minor sulphide mineralization is visible in the Squirrel trench but it is overshadowed by extensive late faulting. No mineralization is present in the Picket trench.

Several geochemical and geophysical anomalies were tested during the third phase of trenching. The first of these was a strong VLF conductor with a coincident strong Genie EM conductor located just south of the Wolverine showing. The anomaly strikes 025°, is over 700 meters long and is associated with a broad recessive zone. The Bluejay, Water and China trenches tested this anomaly (Figures 6.3, 6.4 and 6.5) and exposed a 20 m wide clay gouge zone with local pockets of up to 3% euhedral pyrite. Channnel sampling across the gouge zone returned low gold and copper values. The Hillside trench (Figure 6.6) tested a gold geochemical anomaly south of the Wolverine showing that is on strike with the north-trending fault system exposed at the showing. The anomaly lies in a belt of gold anomalies extending from the south to the north of the grid. The trench exposed a 20 cm pyritic gouge zone and a thin sliver of silicified diorite with pyrite stringers. A grab sample from the silicified zone returned 197 ppb gold and 438 ppm copper. Another significant anomaly along this belt lies due north of the Wolverine showing and was tested by the Fox Trenches (Figure 6.1a) exposing weakly altered volcanic rocks and diorite cemented by ferricrete. The Fred Trenches (Figure 6.7) are located along line 0+00 between 3+20E and 4+40E and test a broad copper soil anomaly. They encountered unmineralized mafic volcanic and intrusive rocks.



SAMPLE #	Au (ppb)	Ag (ppm)	Cu (ppm)
35383	6	0.7	162
35384	14	0.4	360
35385	5	0.4	128
35386	4	0.1	111
35387	5	0.1	77
35471	13	0.4	208
35472	34	0.3	76
35473	13	0.3	94
35474	11	0.3	123
35475	6	0.1	114
35476	24	0.1	111
35477	6	0.1	166
35478	1	0.2	69
35479	9	0.1	98

NORTH AMERICAN METALS CORP.			
GOLDEN BEAR ROAD JV PROJECT			
BLUEJAY TRENCH GEOLOGY AND SAMPLE LOCATION MAP			
DRAWN PS	DATE OCT/90	FILE CODE 104J/4E	FIG. 6.3
Revised			



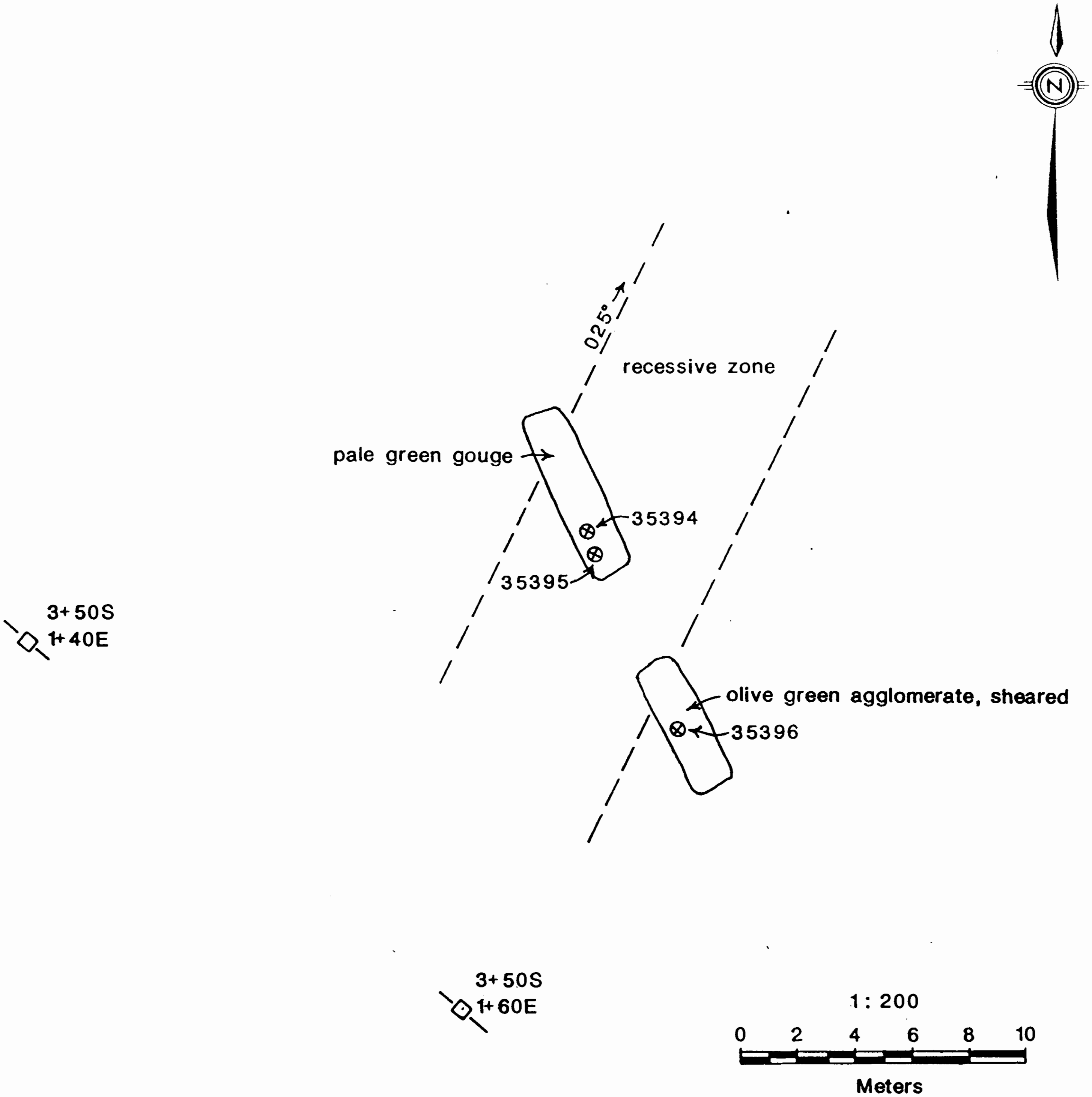
SAMPLE #	Au (ppb)	Ag (ppm)	Cu (ppm)
35388	8	0.2	167
35389	6	0.3	220
35390	4	0.1	93

NORTH AMERICAN METALS CORP.

GOLDEN BEAR ROAD JV PROJECT

WATER TRENCH
GEOLOGY AND
SAMPLE LOCATION MAP

DRAWN	DATE	FILE CODE	
PS	NOV/90	104J/4E	FIG. 6.4
Revised			



SAMPLE #	Au(ppb)	Ag(ppm)	Cu(ppm)
35394	5	0.3	124
35395	3	0.1	68
35396	6	0.3	124

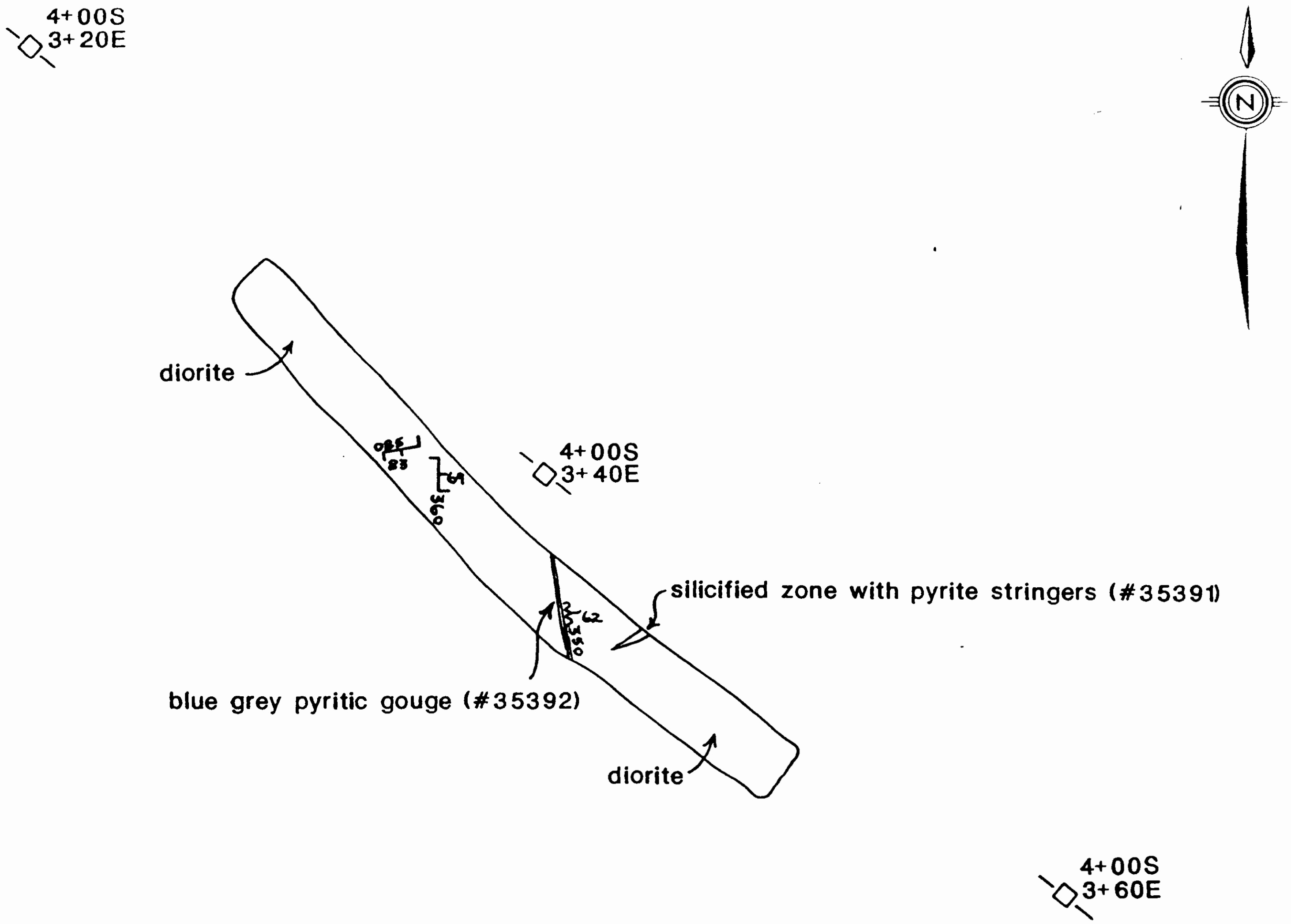
NORTH AMERICAN METALS CORP.

GOLDEN BEAR ROAD JV PROJECT

CHINA TRENCHES

GEOLOGY AND
SAMPLE LOCATION MAP

DRAWN	DATE	FILE CODE	
PS	NOV/90	104J/4E	FIG. 6.5
Revised			



SAMPLE #	Au (ppb)	Ag (ppm)	Cu (ppm)
35391	197	0.3	438
35392	28	0.4	168

1: 200

0 2 4 6 8 10

Meters

LEGEND

fault/shear zone

joint

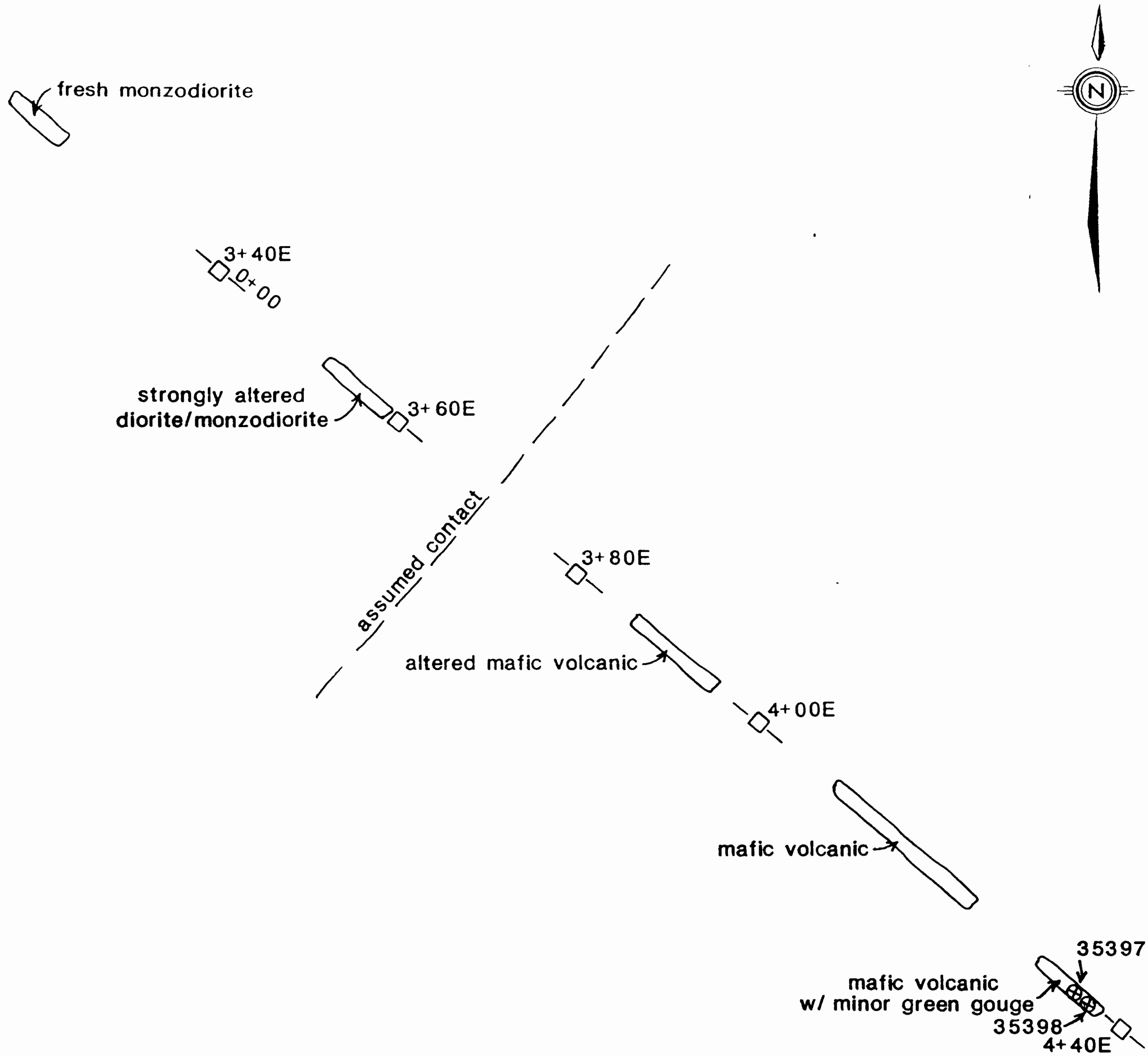
NORTH AMERICAN METALS CORP.

GOLDEN BEAR ROAD JV PROJECT

HILLSIDE TRENCH

GEOLOGY AND SAMPLE LOCATION MAP

DRAWN	DATE	FILE CODE	
PS	NOV/90	104J/4E	FIG. 6.6



SAMPLE #	Au (ppb)	Ag (ppm)	Cu (ppm)
35397	4	0.1	378
35398	5	0.3	238

1: 500

0 10 20

Meters

NORTH AMERICAN METALS CORP.

GOLDEN BEAR ROAD JV PROJECT

FRED TRENCHES

GEOLOGY AND
SAMPLE LOCATION MAP

DRAWN	DATE	FILE CODE	
PS	NOV/90	104J/4E	FIG. 6.7

Revised

4.0 GEOCHEMICAL PROGRAM

Soil samples were taken from the B horizon at depths of 10 to 40cm. Stream silt samples were collected from silt and fine sand deposits in the active flow of creeks. All soil and stream silt samples were collected in kraft high-wet-strength paper bags and hung to dry prior to being shipped to Acme Analytical Labs for analysis. Each sample was analyzed for 30 elements, including gold, done by the ICP method. Samples anomalous in gold were reanalysed by fire assay and samples anomalous in silver, copper, lead and zinc were reanalysed by normal assay procedures.

Gold, silver, copper and arsenic were plotted on grid and reconnaissance maps and contoured at intervals of a) the mean, b) the mean plus one standard deviation and c) the mean plus two standard deviations.

4.1 GRID SOIL SAMPLE RESULTS

A flagged grid was established over the Wolverine showing and consisted of a 2km baseline striking 040° and 1 kilometre cross lines which extended 500m either side of the baseline. The grid was used to control soil sampling, mapping, and geophysical surveys including magnetometer, VLF, and Genie EM. A total of 987 soil samples were collected from the grid area. All data from the grid was plotted at a scale of 1:2500 (Figures 5a to f and 7a to e).

Gold, and to a lesser extent, silver and copper anomalies form a well defined north-northeast linear trend on the grid, which includes a modest anomaly around the Wolverine showing (Figures 5c,d and f). The gold anomalies generally consist of one or two anomalous "bull's eyes" surrounded by narrow zones of weakly anomalous samples that extend over three or more lines. They form a disjointed belt extending between the south and north corners of the grid. Silver anomalies follow the trend of this belt but are more widespread across the grid. Copper defines broad oval-shaped anomalies that sub-parallel the 040° baseline. Arsenic results are very low and do not form any significant anomalies (Figure 5e).

The best target generated by this sampling program is along the south part of the gold anomaly belt where strong Au and Cu anomalies coincide. The Hillside trench on line 4+00S, from 3+20E to 3+60E (Figure 6.6), tested part of this anomalous zone and encountered sheared diorite cut by a 15 cm wide grey pyritic gouge zone, and pyrite stringers in a locally silicified zone. Although analytical results are low, the sulphide mineralization, gouge and shearing in the trench probably caused the soil anomaly.

The Fred trenches (Figure 6.7) tested a broad copper anomaly between stations 3+80E and 4+40E on line 0+00. The trenches were barren of mineralization but established the presence of the 070° fault trend at approximately 3+75E.

Soil anomalies at the north end of the main gold anomaly are of less interest because of thick overburden cover and narrower and more erratic anomalies.

4.2 RECONNAISSANCE SOIL AND STREAM SAMPLE RESULTS

Reconnaissance traverse lines, designed to explore the poorly understood Wolverine 1 to 7 claims, were spaced at 200m intervals, and run in an east-west direction across each claim. The lines were soil sampled at 300m intervals and all observed outcrops were mapped. 58 rock samples, 552 soils and 137 stream silts were collected during this work. Silt samples were taken where traverse lines crossed creeks and along four creeks not covered by the traverse lines. Data was plotted on 1:10,000 scale maps (Figures 3, 4.1a to e and 4.2).

The reconnaissance program located several large Au-Cu soil anomalies in the southwestern part of the property. The anomalies occur in the area of a contact between Jurassic diorites and volcanic rocks (Figures 4.1b and e). The gold anomaly covers an area of roughly 1.5 km by 1.0 km and contains a more significantly anomalous core (>50 ppb Au) that measures 700m by 250m and occurs in the same area as a significantly anomalous copper anomaly (>290 ppm Cu) which measures 500m by 300m. Silt samples taken along Gray Creek are also anomalous in gold (up to 84 ppb) and copper (up to 463 ppm).

The northern and eastern part of the property have several weak to moderate gold, copper and silver anomalies. It is uncertain whether the anomalies are glacially transported or are related to plugs and stocks of the diorite intruding the volcanic rocks. Arsenic anomalies are widespread on the eastern part of the property and may reflect mineral zonation away from the diorite - volcanic contact.

Of the twelve creeks silt sampled during the reconnaissance work, only Gray Creek returned anomalous results.

5.0 CONCLUSIONS AND RECOMMENDATIONS

The main objective of the 1990 program was to determine the extent of mineralization at the Wolverine showing and explore the claims immediately surrounding the showing for other potential targets. No further work is recommended on the Wolverine showing because of the discontinuous and limited nature of the mineralized vein. Future work on the claims should concentrate on exploring the margins of the diorite pluton for structural vein-type and disseminated porphyry-type deposits. Further work is recommended in two areas; the large Au-Cu anomalies in the southwest corner of the Wolverine claims and the Quick 1 to 7 claims.

(1) The Southwest Cu-Au Anomalies

This series of anomalies lies along the margin of the Jurassic diorite pluton near the contact with upper Triassic Stuhini volcanic rocks. The anomalies range in size from highly anomalous 100m diameter spot anomalies to weakly anomalous zones measuring 1.5km by 1.0km. The two priority targets are an anomaly at the head of Gray Creek and the anomaly west of the Wolverine grid. The other anomalies are lower priority but also warrant follow-up.

Detailed grid-controlled soil and ground magnetics and EM surveys and mapping and sampling of outcrops are proposed as the most effective means for exploring the anomalous areas.

(2) The Quick Claims

The contact of the Jurassic pluton with the Stuhini volcanics can be traced, using the airborne magnetics survey, through the Quick claims. This part of the property needs to be evaluated in a reconnaissance style similar to the program conducted on the Wolverine claims. Wide-spaced reconnaissance lines to help control mapping and sampling are recommended for exploration of the Quick claims. More detailed, grid-controlled, ground geophysics will be based on the combined results of the previously completed airborne geophysics and the reconnaissance lines.

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APPENDIX 1

STATEMENT OF EXPENDITURES

1990 EXPENDITURES - ROAD PROJECT

SALARIES AND WAGES		101,244
GEOCHEMISTRY AND ASSAYING		22,703
MISCELLANEOUS GEOLGICAL		
Travel and Lodging	16,893	
Communications	2,071	
Maps, Publications, Photos	3,641	
Office Supplies	437	
Fees	1,851	
Miscellaneous	287	
		25,180
CLAIM COSTS		9,375
SURFACE WORK		
Field Materials	9,870	
Roads and Trails	4,315	
Trenching and Test Pitting	4,101	
Geophysical Surveys	56,950	
Air Support	13,329	
		88,565
MACHINERY AND EQUIPMENT		11,590
ADMINISTRATION FEE (12%)		31,039
NET PROJECT EXPENDITURES		289,696

APPENDIX 2

GEOCHEMICAL METHOD

ACME ANALYTICAL LABORATORIES LTD.

ICP - .500 gram sample is digested with 3 ml 3-1-2 $HCl-HNO_3-H_2O$ at 95 degrees Celcius for one hour and is diluted to 10 ml with water. This leach is partial for Mn, Fe, Sr, Ca, P, La, Cr, Mg, Ba, Ti, B, W and limited for Na, K and Al. Au detection limit by ICP is 3 ppm. Au** analysis by FA/ICP from 10 gram sample. Au* by wet acid leach(10gm)

Au** and Ag** by fire assay from 1 assay ton sample type is rock pulp

For %Cu, %Pb and %Zn a one gram sample was digested in 50ml of aqua regia for one hour to 100mL and run by ICP.

APPENDIX 3

GEOCHEMICAL RESULTS

GEOCHEMICAL ANALYSIS CERTIFICATE

TRENCH

Homestake International Minerals PROJECT 3132 File # 90-2234 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
31145	1	1512	10	77	1.1	91	125	1290	22.94	24	5	ND	1	10	8.7	2	2	70	.91	.063	2	86	1.62	9	.01	4	.70	.01	.04	1	5	74
31146	1	89	2	103	.2	12	16	2183	9.98	33	5	ND	1	29	2.8	2	2	64	3.67	.055	15	6	1.56	26	.01	2	.53	.01	.06	1	2	29
31147	1	220	3	102	.1	9	23	1176	6.02	5	5	ND	1	15	1.6	2	2	128	3.10	.088	4	3	1.14	18	.11	5	2.30	.02	.08	1	4	10
31148	1	1911	30	17	1.4	103	271	744	27.25	43	5	ND	1	5	2.6	2	2	4	.85	.004	2	6	.76	1	.01	2	.12	.01	.01	1	2	1618
31149	1	1034	47	53	4.7	135	194	730	27.78	133	7	ND	2	8	2.2	4	2	23	.53	.021	2	11	.92	7	.02	7	.85	.01	.02	1	7	3733
35176	1	93	3	45	.1	67	27	631	3.93	4	5	ND	1	11	.2	2	2	62	2.38	.086	2	80	1.69	12	.08	8	1.72	.02	.05	1	5	50
35177	1	85	5	23	.2	7	25	379	6.05	11	5	ND	1	15	.5	2	2	48	2.15	.137	3	2	.51	17	.07	7	1.36	.03	.07	1	3	89
35178	1	220	6	41	.2	15	22	831	6.65	22	5	ND	1	18	1.8	2	2	110	2.76	.098	6	10	1.31	38	.07	5	2.20	.03	.08	1	3	73
35179	1	684	15	51	.5	11	46	1093	10.44	37	5	ND	1	10	4.2	2	2	83	1.89	.084	21	4	1.46	35	.01	2	1.96	.01	.05	1	2	105
35180	1	170	2	55	.2	18	16	1355	6.78	11	5	ND	1	37	2.9	2	2	46	6.92	.058	5	9	2.65	11	.01	4	.81	.01	.03	1	2	47
35181	1	107	6	50	.2	29	19	1083	6.32	21	5	ND	1	28	1.3	2	2	61	6.58	.060	6	67	2.34	25	.02	3	2.00	.01	.02	3	2	60
35182	7	4280	26	24	3.1	64	217	565	29.74	47	7	2	2	6	4.4	2	5	35	.68	.046	41	12	.97	6	.01	3	1.07	.01	.02	1	7	5210
35183	1	155	2	71	.1	7	16	989	5.19	2	5	ND	1	22	.9	2	2	118	3.90	.084	4	3	1.30	27	.12	7	2.16	.02	.10	1	4	29
35184	9	627	5	82	.6	32	79	2012	17.19	58	5	ND	1	12	5.3	2	6	73	1.61	.070	14	166	2.12	16	.02	2	2.63	.01	.02	1	2	1862
35185	1	138	10	39	.1	6	22	848	5.54	54	5	ND	1	14	.2	3	2	54	1.75	.130	5	6	.54	28	.05	5	1.63	.03	.06	1	2	182
35186	1	108	5	33	.1	43	20	647	4.19	2	5	ND	1	17	.2	2	2	56	2.18	.103	4	48	1.22	28	.06	4	1.60	.03	.11	1	2	44
35187	2	1761	14	72	2.1	64	106	1641	15.86	34	7	ND	1	15	3.5	2	2	43	3.52	.035	2	53	2.06	8	.01	2	.48	.01	.01	1	2	2100
35188	1	57	2	43	.1	71	17	847	5.56	6	5	ND	1	10	1.3	2	2	78	1.95	.085	4	201	2.10	9	.06	4	2.18	.02	.02	1	4	96
35189	10	825	4	63	1.5	39	81	1847	17.35	116	5	ND	1	22	6.1	2	2	48	3.94	.052	9	59	2.04	11	.01	2	1.11	.01	.01	1	2	1939
35190	5	721	12	91	1.2	33	100	1066	11.68	68	5	ND	1	20	5.9	2	2	57	2.98	.090	34	73	1.44	10	.03	2	1.67	.01	.02	1	5	139
35191	4	475	8	40	.3	23	53	1009	8.86	199	5	ND	1	15	2.4	2	2	47	1.83	.043	68	8	1.23	11	.01	2	.78	.01	.04	1	2	848
35192	4	483	7	109	.7	36	41	1372	11.59	28	6	ND	1	12	5.9	2	8	85	2.03	.084	14	150	1.89	12	.06	3	2.22	.01	.02	1	3	1326
35193	2	242	2	33	.1	3	12	716	4.29	4	5	ND	1	19	.5	2	2	53	2.13	.135	5	2	.63	22	.05	3	1.62	.03	.06	1	2	77
35194	2	94	11	29	.1	19	13	815	4.67	3	5	ND	1	15	.5	2	2	61	2.36	.117	4	27	.96	17	.06	6	1.83	.03	.05	1	2	25
35195	1	180	2	70	.3	27	22	1711	8.37	20	5	ND	2	56	5.1	2	2	49	9.82	.039	6	47	3.65	24	.01	2	.77	.01	.03	1	2	420
35196	1	311	2	66	.2	13	29	1002	6.50	19	5	ND	1	15	1.2	2	2	109	3.32	.082	4	7	1.49	17	.06	7	1.95	.02	.06	1	2	130
35197	1	715	11	82	.1	53	39	1356	7.35	24	5	ND	1	9	2.2	2	2	91	1.79	.082	5	109	1.71	10	.05	2	2.54	.02	.04	1	2	29
35198	2	654	2	89	.4	43	61	1470	11.56	56	5	ND	1	20	3.2	2	5	66	1.98	.077	15	94	1.07	16	.01	2	1.40	.01	.03	1	2	940
35199	1	328	7	66	.2	7	33	956	6.49	51	5	ND	1	29	1.8	2	2	84	6.49	.070	3	5	1.16	35	.04	2	1.78	.01	.07	1	2	66
35200	1	409	3	39	.3	6	33	668	7.20	35	5	ND	1	15	.9	2	8	79	1.61	.097	4	6	.87	29	.06	3	1.61	.02	.08	1	3	919
35202	1	108	4	55	.1	4	16	1006	5.83	9	5	ND	1	15	1.1	2	2	108	4.35	.074	3	2	1.47	12	.05	4	1.81	.02	.05	1	2	100
35203	4	2304	16	41	2.5	60	134	1007	23.29	86	5	3	2	12	5.2	2	9	53	1.71	.052	6	48	1.47	8	.04	5	1.34	.01	.03	1	5	4858
35216	1	129	6	59	.1	10	17	785	5.17	14	5	ND	1	12	.2	2	2	92	3.51	.099	7	3	.78	14	.02	5	1.71	.01	.07	1	2	50
35217	1	403	2	44	.2	18	79	887	7.69	485	5	ND	1	14	2.3	2	2	91	3.46	.118	6	12	.98	11	.01	4	1.83	.02	.07	1	2	74
35218	1	85	2	43	.1	9	74	860	7.69	403	5	ND	1	12	1.6	2	2	108	3.83	.078	4	2	1.18	16	.01	2	2.36	.01	.09	1	2	26
35219	1	194	8	49	.1	22	44	942	6.43	104	5	ND	1	13	1.2	2	2	113	3.20	.131	7	8	1.09	10	.04	2	1.43	.02	.04	1	2	14
STANDARD C/AU-R	17	57	38	133	7.3	67	31	1027	4.06	39	21	7	35	48	17.2	16	18	56	.52	.095	37	56	.91	174	.07	36	1.91	.06	.13	11	2	488

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Rock AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 4 1990 **DATE REPORT MAILED:** July 7/90 **SIGNED BY**.......... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
35220	1	147	2	23	.1	10	51	543	5.22	227	5	ND	1	16	.7	2	2	86	5.40	.142	6	11	.48	13	.02	7	1.51	.02	.05	1	2	4
35221	1	221	2	41	.1	22	27	736	7.32	48	5	ND	1	26	.9	2	2	179	3.66	.078	3	19	1.31	20	.12	5	2.66	.03	.10	1	4	12
35222	1	154	7	29	.1	15	19	600	6.68	15	5	ND	1	25	1.0	2	2	177	2.04	.076	2	13	1.38	23	.14	8	2.70	.04	.10	1	6	2
35223	1	75	5	46	.1	19	200	923	8.84	1227	5	ND	1	8	2.3	3	2	92	1.09	.111	4	3	.49	16	.01	9	1.87	.02	.11	1	2	8
35224	2	104	7	24	.1	10	18	557	4.87	11	5	ND	1	11	.6	2	2	69	2.10	.100	3	6	.74	7	.08	3	1.83	.03	.04	2	4	77
35225	1	630	2	49	.1	22	42	1062	8.40	133	5	ND	1	15	2.7	2	2	153	1.70	.087	4	20	.82	20	.04	2	2.56	.01	.07	1	2	4
35236	7	1914	13	32	1.4	7	97	798	16.85	277	5	3	1	4	2.2	2	4	67	.54	.077	15	3	1.00	29	.01	2	1.34	.01	.04	1	2	4762
35237	7	3107	17	334	1.6	20	82	1761	18.83	149	5	ND	2	4	5.7	2	2	108	.57	.079	12	94	2.12	12	.01	2	3.37	.01	.02	1	3	3492
35238	1	276	5	57	.1	6	28	582	6.31	23	5	ND	1	11	.3	2	6	61	1.72	.122	6	4	.59	15	.07	4	1.77	.02	.06	1	2	81
35239	1	213	5	54	.1	57	27	879	5.52	11	5	ND	1	24	1.0	2	2	80	3.48	.095	4	103	1.43	30	.08	2	2.06	.02	.05	1	4	57
35240	1	121	3	40	.1	59	27	680	4.48	6	5	ND	1	9	.2	2	2	75	2.32	.093	2	105	1.69	10	.08	9	2.43	.02	.04	1	3	13
35241	3	935	10	61	.6	32	63	1152	11.29	57	5	ND	1	24	3.5	2	2	73	5.06	.066	10	22	1.70	11.	.01	4	1.48	.01	.04	1	2	76
35242	1	167	2	32	.1	7	19	569	4.96	5	5	ND	1	18	.4	2	2	80	2.04	.100	3	5	.81	24	.07	2	1.72	.04	.07	1	2	8
35243	1	3003	2	92	1.4	9	61	613	8.78	27	5	3	1	22	1.6	2	3	87	1.76	.081	4	3	.84	34	.06	2	1.94	.04	.09	1	3	6786
35244	9	26570	8	376	11.7	18	243	492	26.79	57	6	25	1	5	1.8	2	8	20	.45	.017	14	2	.54	11	.01	9	.55	.01	.02	1	2	34518
35245	2	1363	2	62	.8	19	54	1091	13.20	212	5	ND	1	7	3.4	2	2	83	.85	.084	12	18	1.31	28	.01	2	1.74	.01	.05	1	2	1293
35246	1	516	5	71	.1	5	18	708	6.43	29	5	ND	1	20	.5	2	2	51	1.06	.108	6	4	.85	39	.02	3	2.03	.01	.09	1	3	555
35247	1	196	6	59	.1	13	20	760	6.00	108	5	ND	1	20	.9	2	2	57	2.31	.103	6	4	.90	35	.04	5	1.73	.02	.07	1	3	56
35248	1	134	2	37	.1	11	12	814	5.72	19	5	ND	1	20	.4	2	2	42	2.46	.104	6	3	.94	27	.01	2	1.16	.02	.06	1	2	29
35249	1	183	2	43	.1	15	19	924	6.30	20	5	ND	1	19	2.1	2	2	73	5.32	.124	7	8	.97	16	.04	8	1.73	.02	.03	1	2	2
35250	1	248	2	45	.1	17	21	987	5.69	19	5	ND	1	25	1.2	2	2	78	6.54	.114	6	11	1.09	13	.05	6	1.49	.02	.04	1	2	10
35251	1	176	2	25	.1	7	16	520	5.17	7	5	ND	1	28	.6	2	2	126	2.41	.088	3	6	.72	23	.09	6	1.74	.04	.09	2	4	36
35252	1	237	6	51	.1	9	22	826	6.42	60	5	ND	1	14	.9	2	2	102	3.28	.130	7	3	.92	21	.06	7	1.69	.02	.05	1	2	112
35253	1	172	2	25	.1	5	18	435	5.02	9	5	ND	1	25	.3	2	2	97	2.85	.122	4	3	.63	31	.08	9	1.51	.03	.11	1	3	18
35254	1	608	2	83	.2	20	111	2460	9.62	41	5	ND	1	9	1.4	2	2	97	.86	.083	25	4	.32	35	.01	5	1.50	.01	.06	1	2	73
35255	1	121	5	68	.2	5	19	1260	5.98	10	5	ND	1	17	1.5	3	2	93	4.44	.075	3	2	1.22	14	.03	2	1.81	.01	.06	1	3	8
35256	1	806	7	162	.5	68	40	1695	13.94	16	5	ND	1	15	6.6	2	2	157	1.44	.087	4	248	3.20	118	.17	2	5.04	.01	1.31	1	6	319
35257	8	787	13	116	.5	18	55	2153	21.71	16	5	ND	2	4	6.5	2	2	77	.27	.093	21	68	2.04	11	.02	5	5.27	.01	.02	1	2	627
35258	1	864	4	93	.4	15	61	1161	15.22	56	5	ND	1	10	5.2	2	3	100	1.51	.086	7	25	1.08	20	.05	2	2.59	.01	.08	1	4	605
35259	1	129	14	52	.1	25	144	874	7.67	880	5	ND	1	12	2.2	3	2	113	3.07	.088	4	41	1.40	10	.03	2	2.78	.01	.09	2	2	34
35260	1	165	4	24	.1	7	14	380	4.88	5	5	ND	1	25	.9	2	2	150	2.24	.079	2	9	.86	19	.10	6	2.35	.04	.09	1	2	10
STANDARD C/AU-R	18	57	37	133	7.3	67	31	1037	4.08	39	18	7	37	48	18.3	14	21	56	.52	.095	37	57	.91	173	.07	38	1.94	.06	.14	11	2	527

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 9 1990
DATE REPORT MAILED: Nov. 15/90.

ASSAY CERTIFICATE

Homestake International Minerals PROJECT 3132 FILE # 90-2234R2

SAMPLE#	Cu %
31148	.18
31149	.09
35182	.38
35184	.06
35187	.16
35189	.07
35191	.04
35192	.04
35198	.06
35200	.04
35203	.20
35236	.18
35237	.29
35243	.28
35244	2.34
35245	.12
35246	.05
35257	.07
35258	.08
STANDARD R-1	.85

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP

SIGNED BY.......... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

GOLDEN BEAR OPERATING COMPANY

MINE ASSAY REPORT

SAMPLER: Bruce McDonald

ASSAYER: ________________

MAP # / DDH #: ________________

DATE: June 24 1990

#	TAG #	SAMPLE DESCRIPTION & AREA	AU g/t	AG g/t
1	A0002	PGTF #1 23900 N 24980E	2.78	21.33
2	A0003	PG TF #2 23900 N 24960E	1.37	TR
3	A0004	MFTF #3 24000 N 24966E	0.10	TR
4	A0005	PGTF #4 25231N 23654E	3.87	13.27
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34				

A003 Carbon 2.2% Sulphur 12.98%

A005 Carbon 2.23% Sulphur 12.49%

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake International Minerals PROJECT 3131 File # 90-2276 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: DARCY MARUD

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP2+00N 5+00W	1	77	13	48	.5	46	20	413	5.66	13	5	ND	1	25	2.0	2	2	145	.56	.090	3	63	1.38	26	.14	4	3.05	.02	.05	1	2	22
RP2+00N 4+80W	1	281	15	74	.6	59	18	522	5.37	2	5	ND	1	42	1.9	2	2	92	1.03	.108	20	65	1.23	139	.24	7	3.85	.03	.05	1	2	12
RP2+00N 4+60W	1	188	7	83	.2	51	18	685	5.61	2	5	ND	2	37	1.4	2	2	98	.68	.069	17	58	1.16	89	.39	5	3.48	.04	.06	1	2	2
RP2+00N 4+40W	1	47	9	121	.5	38	28	1003	5.59	2	5	ND	1	28	.7	2	2	125	.54	.125	3	65	1.23	65	.16	2	3.03	.02	.08	1	2	19
RP2+00N 4+20W	1	62	14	99	.3	54	23	546	5.48	7	5	ND	1	26	1.8	2	3	106	.57	.111	6	64	1.36	53	.29	5	3.26	.03	.06	1	2	13
RP2+00N 4+00W	1	65	10	99	.3	53	22	581	5.96	16	5	ND	1	23	.5	2	2	117	.54	.102	8	58	1.31	33	.32	3	2.66	.03	.07	1	2	76
RP2+00N 3+80W	1	60	16	147	.6	51	28	1082	6.52	11	5	ND	1	23	1.5	2	2	127	.64	.292	5	72	1.26	67	.22	3	2.88	.03	.08	1	2	57
RP2+00N 3+60W	1	70	18	178	.3	56	24	789	6.59	2	5	ND	2	20	1.7	2	2	103	.43	.208	12	63	1.04	54	.51	2	3.33	.04	.06	2	2	6
RP2+00N 3+40W	1	82	15	115	.4	51	21	589	5.88	7	5	ND	1	26	1.6	2	2	102	.55	.155	8	61	1.12	47	.39	2	3.04	.03	.06	1	2	7
RP2+00N 3+20W	2	101	10	148	.5	54	26	550	6.31	9	5	ND	1	26	2.5	2	2	120	.61	.088	7	65	1.35	51	.34	4	2.64	.03	.07	1	2	34
RP2+00N 3+00W	1	51	6	211	.4	52	25	727	6.78	9	5	ND	1	23	1.3	2	2	117	.52	.266	7	69	1.36	59	.30	2	2.92	.02	.08	1	2	8
RP2+00N 2+80W	1	123	6	133	.4	112	28	1074	6.32	17	5	ND	1	27	1.3	2	2	135	.66	.136	8	133	1.96	85	.30	2	3.58	.03	.07	1	2	6
RP2+00N 2+60W	1	91	11	108	.3	82	25	874	5.71	8	5	ND	1	31	1.1	2	2	128	.69	.086	4	113	2.10	70	.16	2	3.58	.02	.07	1	2	13
RP2+00N 2+40W	1	116	6	86	.2	86	23	607	5.57	18	5	ND	1	28	1.1	2	2	123	.64	.090	4	104	1.96	66	.20	4	3.39	.03	.06	1	2	31
RP2+00N 2+20W	2	113	8	199	.7	63	23	687	6.24	10	5	ND	1	20	1.7	2	2	122	.43	.119	9	92	1.15	70	.36	5	3.62	.02	.06	1	2	12
RP2+00N 2+00W	1	95	8	82	.2	52	24	696	5.40	11	5	ND	1	30	1.7	2	2	116	.64	.081	7	67	1.55	57	.19	5	3.14	.02	.05	1	2	21
RP2+00N 1+80W	1	136	14	99	.1	86	28	743	6.15	15	5	ND	1	19	1.5	2	2	110	.55	.061	4	64	2.62	42	.27	2	3.81	.02	.06	1	2	22
RP2+00N 1+60W	2	75	24	234	.5	52	27	783	6.36	9	5	ND	1	21	1.6	2	2	123	.53	.083	7	71	1.39	64	.33	5	3.02	.02	.05	1	2	64
RP2+00N 1+40W	1	86	3	74	.1	63	20	616	5.53	14	5	ND	1	33	.8	2	2	122	.70	.054	3	82	1.96	45	.16	4	3.04	.02	.04	1	2	30
RP2+00N 1+20W	1	74	2	131	.4	54	21	586	5.99	11	5	ND	1	31	.6	3	2	132	.56	.093	5	72	1.50	62	.23	4	3.21	.02	.05	1	2	21
RP2+00N 1+00W	1	135	16	64	.1	53	21	512	5.64	15	5	ND	1	37	.7	2	2	147	.66	.085	4	71	1.68	36	.13	4	3.49	.02	.05	1	2	11
RP2+00N 0+80W	1	44	4	175	.4	31	19	688	6.20	3	5	ND	2	26	1.4	2	2	126	.42	.151	7	52	.87	64	.30	6	3.08	.02	.07	1	2	4
RP2+00N 0+60W	1	93	5	117	.2	57	24	751	5.94	6	5	ND	1	39	.8	2	2	130	.60	.125	4	69	1.71	54	.15	4	3.86	.02	.05	1	2	12
RP2+00N 0+40W	1	94	9	95	.1	66	26	666	5.89	23	5	ND	1	39	.2	2	2	135	.66	.092	4	76	1.79	85	.14	5	3.71	.02	.04	2	2	11
RP2+00N 0+20W	1	50	6	81	.2	30	14	591	3.74	6	5	ND	1	48	1.1	2	3	102	1.05	.039	5	49	1.19	63	.20	2	2.16	.02	.05	1	2	8
RP2+00N 0+00 BL	1	86	24	87	.1	51	19	555	5.06	2	5	ND	1	36	.8	3	3	109	.73	.077	6	72	1.28	103	.20	3	3.52	.02	.05	1	2	4
RP2+00N 0+20E	1	96	2	168	.1	64	25	492	5.56	2	5	ND	1	28	1.5	2	2	112	.52	.124	4	81	1.54	67	.18	2	3.92	.02	.05	1	2	7
RP2+00N 0+40E	1	74	8	120	.1	45	22	492	5.16	2	5	ND	1	29	.5	2	2	102	.42	.120	6	69	1.26	66	.26	2	3.44	.02	.05	1	2	5
RP2+00N 0+60E	1	79	8	93	.1	43	20	494	5.20	8	5	ND	1	53	.7	4	2	112	.98	.072	6	62	1.32	80	.21	3	3.41	.02	.04	1	2	8
RP2+00N 0+80E	1	143	10	97	.2	65	25	743	5.65	12	5	ND	1	45	.7	2	2	134	.72	.089	5	79	1.94	49	.16	6	3.78	.02	.06	1	2	5
RP2+00N 1+00E	1	112	2	62	.1	45	21	485	5.32	8	5	ND	1	42	.7	2	2	143	.73	.086	5	54	1.48	36	.13	4	3.07	.02	.05	1	3	10
RP2+00N 1+20E	1	118	2	79	.1	47	27	761	5.58	8	5	ND	1	62	.9	3	2	135	.95	.062	6	71	1.99	76	.15	6	3.74	.03	.06	1	2	16
RP2+00N 1+60E	1	95	11	88	.2	47	20	714	5.71	12	5	ND	1	45	.8	2	2	127	.80	.063	3	68	1.77	58	.13	3	3.80	.02	.08	1	3	8
RP2+00N 1+80E	2	72	2	121	.2	33	21	676	6.32	20	5	ND	1	26	2.4	2	2	142	.48	.063	5	59	1.47	70	.26	4	3.38	.02	.09	1	2	7
RP2+00N 2+00E	1	89	3	95	.2	50	24	637	5.76	15	5	ND	1	29	1.4	3	2	131	.53	.039	5	66	1.88	57	.23	5	3.70	.02	.07	1	2	3
RP2+00N 2+20E	1	91	2	84	.1	43	21	638	5.45	10	5	ND	1	42	.8	3	2	123	.67	.028	4	55	1.72	86	.20	2	3.57	.02	.05	1	2	16
STANDARD C/AU-S	18	57	37	133	7.2	67	31	1025	4.04	40	23	6	36	47	17.5	16	22	57	.52	.094	36	56	.93	173	.08	39	1.92	.06	.14	11	2	49

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Soil -80 Mesh AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 5 1990 DATE REPORT MAILED: July 12/90 SIGNED BY C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP2+00N 2+40E	1	95	7	89	.2	59	21	649	5.55	8	5	ND	1	32	.6	2	2	131	.45	.052	3	76	2.02	47	.16	2	3.42	.02	.06	1	3	7
RP2+00N 2+60E	1	118	13	75	.1	238	40	786	5.50	5	5	ND	1	25	.6	2	2	128	.72	.019	2	304	5.29	16	.17	2	3.61	.01	.01	1	4	11
RP2+00N 2+80E	2	96	11	91	.1	44	16	683	4.94	16	5	ND	1	27	.2	2	2	104	.72	.063	9	50	1.21	46	.35	2	2.43	.03	.05	1	2	1
RP2+00N 3+00E	1	72	9	72	.1	144	28	638	4.79	2	5	ND	1	38	1.1	2	2	83	.81	.025	3	78	3.70	28	.23	2	3.16	.01	.02	1	2	1
RP2+00N 3+40E	2	99	17	142	.2	39	23	889	5.99	26	5	ND	1	37	1.0	2	5	147	1.09	.080	4	65	1.49	129	.18	2	2.75	.01	.12	1	2	4
RP2+00N 3+60E	1	54	19	196	.4	57	27	911	5.30	9	5	ND	1	25	1.6	2	4	112	.98	.050	4	98	1.90	50	.26	2	2.37	.02	.06	2	2	8
RP2+00N 3+80E	2	443	9	174	.6	59	20	888	5.48	14	5	ND	1	31	2.1	2	2	101	1.13	.070	16	53	1.13	65	.37	2	2.60	.03	.04	1	2	4
RP2+00N 4+00E	2	89	15	125	.2	58	19	617	6.36	43	5	ND	1	25	1.2	2	2	121	.63	.047	5	67	1.70	56	.35	2	2.69	.02	.10	1	2	1
RP2+00N 4+20E	2	71	10	191	.1	40	22	732	5.80	23	5	ND	1	27	1.1	2	2	117	.54	.050	5	55	1.32	76	.30	2	2.53	.02	.09	1	2	1
RP2+00N 4+40E	2	135	13	206	.6	48	21	839	5.68	39	5	ND	1	34	1.6	2	2	128	.71	.081	7	52	1.41	76	.22	6	2.72	.02	.13	1	2	5
RP2+00N 4+60E	1	96	18	147	.3	66	21	769	5.70	59	5	ND	1	30	.7	2	5	122	.58	.098	3	77	2.10	73	.13	2	3.24	.02	.11	2	3	5
RP2+00N 5+00E	1	84	21	131	.2	75	24	813	6.08	33	5	ND	1	24	.8	3	2	120	.43	.071	3	101	2.09	48	.20	2	3.57	.02	.08	3	4	6
RP1+50N 2+00W	1	71	12	108	.5	51	28	1674	5.51	12	5	ND	1	21	1.1	2	2	108	.49	.152	7	57	1.36	62	.22	3	2.78	.02	.07	2	2	12
RP1+50N 1+80W	1	74	13	158	.2	65	25	742	6.08	16	5	ND	1	21	.5	2	4	121	.50	.128	4	63	1.62	42	.18	2	2.84	.01	.06	1	2	15
RP1+50N 1+60W	1	68	14	131	.2	54	22	643	5.94	17	5	ND	1	20	.9	2	7	127	.43	.119	5	60	1.39	43	.23	2	3.00	.02	.05	1	2	6
RP1+50N 1+40W	1	92	22	217	.5	68	25	589	5.99	6	5	ND	1	20	1.2	2	2	110	.35	.083	7	74	1.23	61	.29	2	3.63	.02	.05	1	2	9
RP1+50N 1+20W	1	94	14	87	.1	51	19	691	4.32	9	5	ND	1	36	.2	2	8	100	.78	.032	4	58	1.54	58	.12	4	2.80	.01	.03	1	2	16
RP1+50N 0+60W	1	71	11	81	.1	33	18	484	5.86	13	5	ND	1	30	.2	2	2	153	.49	.084	4	36	1.02	40	.12	4	2.58	.01	.04	2	2	42
RP1+50N 0+40W	1	55	6	55	.1	26	14	370	4.60	8	5	ND	1	30	.2	2	2	134	.55	.068	3	27	.95	39	.09	2	1.81	.02	.04	1	2	7
RP1+50N 0+20W	1	92	5	52	.1	25	13	311	3.72	5	5	ND	1	23	.2	2	3	82	.40	.090	5	24	.60	51	.08	5	2.76	.02	.06	1	2	9
RP1+50N 0+00W	1	78	7	93	.1	108	27	598	6.06	157	5	ND	1	24	1.2	2	8	107	.45	.091	2	95	2.32	34	.13	2	3.44	.01	.04	1	2	18
RP1+50N 0+20E	1	135	9	72	.1	44	17	532	4.47	18	5	ND	1	42	.2	2	2	103	.81	.074	7	52	1.22	68	.13	4	2.43	.03	.05	1	3	5
RP1+50N 0+40E	1	84	16	79	.2	47	27	1542	4.97	2	5	ND	3	28	.5	2	8	112	.58	.216	6	45	1.10	72	.15	2	2.53	.02	.07	1	2	5
RP1+50N 0+60E	1	130	8	55	.1	42	21	473	5.18	3	5	ND	1	36	.2	2	2	129	.55	.092	4	47	1.33	60	.08	2	2.85	.01	.03	1	3	13
RP1+50N 0+80E	1	86	9	106	.1	49	22	579	5.63	3	5	ND	1	28	.9	2	2	118	.43	.119	5	64	1.45	50	.20	2	3.57	.02	.03	1	3	9
RP1+50N 1+00E	1	63	12	91	.1	47	17	449	5.73	2	5	ND	1	28	.2	2	6	137	.44	.047	4	61	1.36	42	.18	3	3.00	.02	.05	3	2	15
RP1+50N 1+20E	2	47	15	100	.4	41	20	691	5.44	2	5	ND	1	22	1.0	2	3	127	.37	.069	5	56	1.11	61	.25	5	2.47	.02	.04	1	2	9
RP1+50N 1+40E	1	108	2	82	.2	52	19	587	4.84	5	5	ND	1	34	.5	2	8	99	.60	.036	4	51	1.42	47	.15	2	3.25	.02	.04	1	2	36
RP1+50N 1+60E	1	59	10	61	.1	20	16	716	4.73	2	5	ND	1	74	.2	3	5	126	1.38	.024	2	53	1.52	41	.08	2	3.79	.01	.06	1	3	6
RP1+50N 1+80E	2	64	9	126	.1	46	18	693	5.14	5	5	ND	1	33	.4	2	4	109	.58	.049	6	56	1.33	41	.27	2	2.82	.02	.04	1	3	4
RP1+50N 2+00E	2	27	9	235	.1	22	18	1089	4.36	5	5	ND	1	38	.2	2	4	102	.80	.034	5	46	.97	52	.31	4	1.78	.02	.05	1	2	3
RP1+00N 5+00W	1	60	19	72	.3	58	19	597	4.89	3	5	ND	1	31	.7	2	4	114	.57	.085	3	67	1.53	57	.12	2	2.85	.02	.04	1	2	35
RP1+00N 4+80W	1	73	5	79	.3	43	22	1115	4.54	6	5	ND	1	37	.5	2	6	92	.83	.058	4	58	1.48	55	.15	3	2.75	.02	.06	1	2	25
RP1+00N 4+60W	1	66	15	126	.4	51	25	833	5.64	4	5	ND	1	35	1.4	2	2	111	.58	.117	4	63	1.56	84	.15	2	3.36	.02	.06	1	3	8
RP1+00N 4+40W	1	73	14	78	.2	55	21	589	4.92	10	5	ND	1	35	.8	2	3	106	.61	.059	4	64	1.69	65	.13	3	3.12	.02	.05	1	2	16
RP1+00N 4+20W	1	52	6	81	.4	44	18	529	4.75	7	5	ND	1	30	.8	2	6	111	.60	.035	3	59	1.42	50	.13	4	2.73	.02	.04	1	5	70
STANDARD C/AU-S	18	58	38	133	7.2	68	31	1020	3.99	40	15	7	37	47	17.7	16	21	57	.52	.096	36	56	.91	176	.08	34	1.94	.06	.14	11	2	47

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP1+00N 4+00W	1	53	2	55	.1	43	16	607	4.02	8	5	ND	1	36	.6	2	2	101	.78	.034	3	53	1.45	47	.15	7	2.21	.03	.05	1	2	14
RP1+00N 3+60W	2	189	11	84	.3	61	18	567	6.13	22	5	ND	2	27	1.1	2	2	106	.64	.102	16	60	.98	88	.44	6	3.65	.04	.06	1	2	7
RP1+00N 3+40W	1	176	20	105	.3	79	30	832	6.03	24	5	ND	1	31	1.3	2	2	118	.71	.096	6	77	1.65	68	.15	2	3.93	.02	.08	1	2	49
RP1+00N 3+20W	2	58	9	154	.3	45	23	590	6.23	21	5	ND	1	30	1.5	2	2	128	.81	.272	4	56	1.22	67	.18	2	2.77	.02	.10	1	2	257
RP1+00N 3+00W	1	152	6	89	.7	55	23	631	5.71	26	5	ND	1	26	.8	2	2	111	.67	.093	10	71	1.20	69	.29	8	3.06	.02	.07	1	2	17
RP1+00N 2+80W	1	122	14	103	.1	69	29	1062	5.85	23	5	ND	1	28	1.2	2	2	113	.69	.095	7	67	1.68	73	.25	5	3.20	.02	.07	1	2	6
RP1+00N 2+60W	2	225	12	140	.3	87	24	677	6.20	20	5	ND	2	23	1.1	2	2	112	.55	.128	11	67	1.22	74	.43	4	3.62	.03	.07	2	2	60
RP1+00N 2+40W	1	91	2	121	.3	53	25	584	5.61	23	5	ND	1	28	.9	2	2	124	.72	.084	8	52	1.16	41	.23	3	2.81	.02	.08	1	2	11
RP1+00N 2+20W	1	73	3	79	.1	58	24	466	5.40	18	5	ND	1	30	.4	2	2	124	.76	.036	3	76	1.55	43	.15	2	2.83	.02	.05	1	2	29
RP1+00N 2+00W	2	116	21	78	.2	98	26	739	5.26	19	5	ND	1	39	1.4	2	2	109	1.02	.056	4	89	2.29	62	.11	7	3.29	.02	.08	1	2	22
RP1+00N 1+80W	1	90	14	90	.1	53	19	628	4.60	15	5	ND	1	36	.8	2	2	108	1.29	.042	5	53	1.68	47	.18	9	2.47	.02	.05	1	2	15
RP1+00N 1+40W	2	57	2	74	.1	52	16	468	4.29	19	5	ND	1	43	.9	2	2	91	1.31	.025	4	59	1.42	53	.22	7	2.43	.03	.04	1	2	8
RP1+00N 2+00E	2	166	12	88	.7	43	20	636	5.74	32	5	ND	1	65	1.1	2	2	123	.98	.059	4	51	1.72	41	.12	5	4.36	.02	.10	1	2	9
RP1+00N 2+40E	2	372	9	229	.4	84	20	897	5.29	47	5	ND	1	68	1.7	2	2	127	1.97	.084	11	70	1.47	64	.18	7	3.11	.03	.06	1	2	23
RP1+00N 3+80E	2	389	2	130	.9	61	11	792	2.77	18	5	ND	1	100	.7	2	2	67	3.89	.114	9	45	.84	64	.07	12	1.84	.02	.04	1	2	19
RP1+00N 4+00E	1	617	2	95	.6	39	4	584	.90	9	13	ND	1	123	.7	2	3	24	5.14	.093	7	17	.33	29	.02	19	.73	.01	.02	1	2	4
RP1+00N 4+20E	1	343	7	239	.3	121	21	992	5.62	36	5	ND	1	55	1.5	2	2	126	1.16	.094	11	81	1.61	84	.25	6	3.44	.03	.07	1	2	13
RP1+00N 4+40E	1	254	10	367	.2	82	20	950	5.02	29	5	ND	1	57	1.5	2	2	115	1.48	.095	10	60	1.64	67	.20	8	2.77	.03	.08	1	2	7
RP1+00N 4+80E	2	272	13	206	.4	105	19	936	4.78	37	5	ND	1	67	1.9	2	2	111	1.84	.090	10	79	1.67	87	.17	9	3.13	.03	.08	1	2	3
RP1+00N 5+00E	2	280	18	170	.4	104	18	839	4.51	37	5	ND	1	65	1.0	2	2	108	1.78	.097	12	73	1.49	85	.17	7	2.90	.03	.07	1	2	26
RP0+50N 2+00W	1	60	8	117	.2	48	25	1139	5.91	23	5	ND	1	22	1.0	2	2	122	.56	.140	6	56	1.24	53	.26	4	2.42	.02	.06	1	2	105
RP0+50N 1+80W	2	86	2	158	.3	66	26	641	6.70	36	5	ND	1	20	1.2	2	2	116	.47	.154	7	62	1.44	48	.27	2	3.25	.02	.06	1	2	29
RP0+50N 1+60W	1	77	11	121	.2	94	31	649	6.98	20	5	ND	1	18	1.8	2	2	123	.45	.101	6	71	2.10	36	.37	2	2.88	.02	.05	1	2	7
RP0+50N 1+40W	1	47	6	113	.2	73	30	1081	8.06	28	5	ND	1	23	1.7	2	2	114	.49	.151	5	63	1.39	57	.26	6	2.96	.01	.06	1	2	19
RP0+50N 1+20W	1	57	8	99	.4	54	26	823	6.57	20	5	ND	1	21	1.2	2	2	121	.46	.061	5	74	1.28	51	.30	3	2.79	.01	.04	1	2	16
RP0+50N 1+00W	1	67	9	158	.2	53	26	738	7.88	21	5	ND	1	18	1.6	2	2	146	.45	.110	5	60	1.32	41	.28	4	2.44	.01	.07	1	2	1
RP0+50N 0+80W	1	91	13	141	.1	54	17	645	5.53	26	5	ND	1	32	1.5	2	2	87	1.00	.067	10	46	1.12	62	.34	4	2.69	.03	.03	1	2	5
RP0+50N 0+60W	2	112	15	145	.2	39	24	977	9.14	684	5	ND	1	19	2.6	2	2	144	.33	.085	6	61	.89	67	.49	2	2.28	.01	.05	1	2	12
RP0+50N 0+40W	1	89	3	96	.1	92	26	785	7.09	103	5	ND	1	24	.7	2	2	129	.56	.058	4	95	1.92	62	.24	6	3.20	.01	.04	1	2	3
RP0+50N 0+20W	1	85	17	111	.1	83	25	794	5.97	30	5	ND	1	29	1.9	3	2	118	.67	.058	3	108	2.16	47	.15	2	3.11	.01	.04	1	2	3
RP0+50N 0+00	1	73	17	92	.2	48	30	810	7.18	36	5	ND	1	17	1.5	2	2	141	.52	.059	2	54	2.29	26	.26	5	3.23	.01	.06	1	2	20
RP0+50N 0+20E	1	122	11	64	.1	84	25	572	6.07	24	5	ND	1	32	1.7	3	2	120	.80	.073	2	105	2.22	34	.10	2	3.41	.02	.02	1	2	12
RP0+50N 0+40E	2	94	17	151	.3	74	29	787	7.14	31	5	ND	1	19	1.8	2	2	141	.55	.166	5	77	1.80	43	.27	6	3.24	.01	.05	1	2	5
RP0+50N 0+60E	1	73	6	116	.2	57	23	619	5.57	16	5	ND	1	26	1.3	2	2	120	.66	.073	5	68	1.61	34	.18	3	3.08	.02	.04	1	2	16
RP0+50N 0+80E	1	72	7	110	.3	54	22	561	5.33	11	5	ND	1	28	1.0	2	2	126	.59	.041	3	60	1.58	52	.15	5	3.14	.02	.04	1	2	36
RP0+50N 1+00E	1	127	6	82	.2	68	17	469	3.86	11	5	ND	1	46	1.6	4	2	85	1.78	.071	6	59	1.85	54	.08	2	3.03	.02	.02	1	2	7
STANDARD C/AU-S	18	58	36	133	7.2	69	29	1019	3.93	43	19	7	36	48	17.5	16	18	56	.51	.094	35	56	.91	173	.08	37	1.90	.06	.14	12	2	53

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP0+00 5+00W	1	238	7	70	.1	46	18	589	3.86	16	5	ND	1	53	.7	2	2	91	1.55	.063	5	58	1.37	63	.12	2	2.25	.02	.05	1	2	30
RP0+00 4+80W	1	140	6	77	.2	59	26	563	5.76	6	5	ND	1	48	1.3	2	2	131	.72	.080	3	78	1.81	87	.15	6	3.83	.02	.06	1	2	13
RP0+00 4+60W	1	114	14	70	.2	47	24	643	5.43	14	5	ND	1	51	1.4	3	2	118	.84	.014	5	84	1.78	65	.16	4	3.52	.02	.04	1	3	19
RP0+00 4+40W	1	238	2	85	.3	50	13	533	4.18	19	5	ND	1	55	1.9	2	2	93	1.90	.100	6	64	1.47	40	.09	8	2.30	.02	.04	1	2	13
RP0+00 4+20W	1	220	2	81	.1	48	18	857	4.59	19	5	ND	1	47	.7	2	2	109	1.39	.095	6	61	1.46	43	.10	5	2.21	.02	.06	1	2	28
RP0+00 4+00W	1	317	9	80	.3	50	15	720	3.99	21	5	ND	1	62	1.5	2	2	84	2.16	.102	6	63	1.37	46	.07	8	2.24	.02	.04	1	3	16
RP0+00 3+80W	2	218	14	81	.3	45	20	948	4.49	20	5	ND	1	48	.9	3	2	105	1.37	.101	5	67	1.52	47	.10	2	2.37	.02	.06	1	3	14
RP0+00 3+60W	1	243	8	77	.4	48	19	797	4.47	12	5	ND	1	49	.9	2	2	105	1.32	.104	12	60	1.49	92	.12	6	2.93	.02	.09	1	2	15
RP0+00 3+40W	1	120	15	74	.2	52	24	700	5.54	21	5	ND	1	39	1.3	3	2	118	.68	.061	3	78	1.87	58	.13	7	3.39	.01	.06	1	2	17
RP0+00 3+20W	1	145	15	96	.3	61	24	625	5.59	11	5	ND	1	40	.7	2	3	116	.77	.086	4	77	1.87	55	.14	6	3.94	.02	.07	2	2	57
RP0+00 3+00W	1	76	9	93	.3	48	22	543	5.53	14	5	ND	1	37	.5	2	2	119	.67	.077	3	71	1.66	68	.17	6	3.08	.02	.07	1	2	26
RP0+00 2+80W	1	119	14	90	.5	49	23	546	5.36	20	5	ND	1	25	1.8	4	2	111	.62	.083	7	58	1.21	38	.20	5	3.00	.02	.05	1	5	18
RP0+00 2+60W	1	44	2	166	.3	32	21	770	5.99	15	5	ND	1	23	.9	4	2	121	.54	.264	4	57	1.07	66	.16	3	2.28	.02	.06	1	2	9
RP0+00 2+40W	1	64	9	103	.2	46	25	729	5.68	15	5	ND	1	33	1.3	2	2	114	.84	.121	4	64	1.58	58	.18	4	2.63	.02	.10	1	2	20
RP0+00 2+20W	1	95	3	72	.1	60	24	609	5.08	19	5	ND	1	33	1.1	2	2	101	.85	.046	3	81	1.72	39	.14	2	2.99	.02	.07	1	2	31
RP0+00 2+00W	2	52	10	107	.1	36	24	611	6.70	11	5	ND	1	18	1.4	2	2	118	.50	.145	9	52	.84	54	.33	5	2.23	.02	.08	1	2	22
RP0+00 1+80W	1	106	7	121	.2	39	23	887	5.28	8	5	ND	1	24	1.0	2	2	83	.79	.060	11	44	.99	56	.42	5	2.28	.03	.04	1	2	4
RP0+00 1+60W	1	53	6	81	.1	45	20	501	5.38	28	5	ND	1	22	1.2	2	2	95	.63	.033	8	53	1.11	42	.47	5	2.07	.03	.05	1	2	8
RP0+00 1+40W	1	110	2	86	.1	35	17	613	5.19	5	5	ND	1	37	1.3	2	2	74	1.54	.083	19	37	.78	76	.47	7	2.03	.06	.04	1	2	2
RP0+00 1+20W	1	111	4	88	.1	62	23	642	5.71	11	5	ND	1	31	.2	2	2	112	.88	.043	4	74	1.83	47	.15	4	2.70	.01	.07	1	2	52
RP0+00 1+00W	1	33	8	96	.1	88	29	601	5.38	9	5	ND	1	17	2.1	2	2	112	.53	.059	3	88	2.65	34	.30	2	2.63	.01	.11	1	2	6
RP0+00 0+80W	1	81	2	79	.2	101	40	925	7.34	161	5	ND	1	22	.9	2	2	120	.77	.068	3	122	2.33	45	.13	2	3.38	.01	.11	1	2	23
RP0+00 0+60W	2	64	8	123	.3	44	25	518	6.71	14	5	ND	1	23	.6	2	2	132	.55	.069	5	57	1.14	50	.29	2	2.53	.01	.07	1	2	819
RP0+00 0+40W	1	57	3	126	.3	92	30	886	7.38	7	5	ND	1	21	1.2	2	2	139	.60	.086	3	101	2.76	43	.21	5	3.70	.01	.05	1	2	1
RP0+00 0+20W	1	73	11	91	.1	102	32	699	8.04	69	5	ND	1	20	.8	2	2	137	.53	.128	3	143	2.41	47	.20	2	3.76	.01	.05	1	2	17
RP0+00 0+00	1	87	11	81	.1	132	33	755	6.89	27	5	ND	1	25	1.7	2	2	122	.64	.046	2	169	3.63	35	.17	4	4.37	.01	.03	1	2	10
RP0+00 0+20E	1	57	2	150	.4	77	30	911	6.25	17	5	ND	1	23	1.6	2	2	122	.56	.087	4	92	2.15	53	.28	7	3.02	.01	.05	1	2	4
RP0+00 0+40E	1	73	11	161	.6	69	30	989	6.87	40	5	ND	1	24	1.0	2	2	120	.53	.111	4	105	1.57	61	.16	3	3.43	.01	.05	1	2	5
RP0+00 0+60E	1	101	7	94	.4	95	27	1013	6.12	34	5	ND	1	23	.4	2	2	105	.63	.067	4	94	2.35	45	.22	2	3.69	.01	.05	1	2	13
RP0+00 0+80E	1	86	5	102	.1	69	29	618	7.17	33	5	ND	1	22	1.9	2	2	123	.45	.052	4	104	1.82	45	.23	2	3.37	.01	.04	1	2	13
RP0+00 1+00E	1	58	15	97	.2	45	22	643	7.25	35	5	ND	1	21	1.3	2	2	133	.38	.047	5	76	1.12	49	.32	2	2.75	.01	.04	1	2	14
RP0+00 2+18E	2	765	2	123	1.0	49	13	629	3.62	17	7	ND	1	71	.7	2	3	83	2.77	.095	17	68	1.09	34	.17	9	2.15	.03	.05	1	2	16
RP0+00 2+40E	2	681	4	167	.8	28	10	619	3.21	21	5	ND	1	83	.9	2	4	66	3.25	.104	15	38	.60	39	.13	7	1.94	.02	.03	1	2	8
RP0+00 2+60E	2	773	5	171	.8	30	8	584	2.71	25	5	ND	1	83	.9	2	2	57	3.52	.112	13	36	.55	37	.09	6	1.81	.02	.03	1	2	9
RP0+00 2+80E	2	496	7	231	.7	26	10	976	2.63	19	5	ND	1	96	1.9	2	4	53	4.02	.109	11	33	.59	57	.08	13	1.79	.02	.04	1	2	8
RP0+00 3+00E	3	76	8	145	.2	30	16	488	5.93	24	5	ND	1	37	.7	2	2	130	.85	.056	5	52	1.11	53	.22	5	2.57	.02	.06	1	2	30
STANDARD C/AU-S	17	57	37	132	7.2	67	30	1020	3.99	42	21	6	37	47	17.7	15	22	56	.51	.095	36	57	.92	175	.08	35	1.94	.06	.14	11	2	53

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP0+00 3+20E	2	114	9	169	.3	37	20	883	5.69	26	5	ND	1	28	.6	2	2	92	.82	.066	9	44	.93	50	.42	4	2.88	.03	.06	2	2	30
RP0+00 3+40E	2	152	14	236	.3	40	17	706	5.68	42	5	ND	1	38	2.4	2	2	98	1.09	.064	10	48	.95	56	.43	6	2.85	.03	.05	1	2	1
RP0+00 3+80E	2	367	24	133	.6	30	21	757	5.79	46	5	ND	1	58	.6	2	2	134	1.39	.028	8	43	1.26	70	.21	7	3.47	.02	.06	1	2	10
RP0+00 4+00E	3	469	6	184	.4	51	21	955	4.95	47	8	ND	1	51	.7	2	2	98	1.63	.070	12	60	1.30	69	.24	5	2.59	.03	.08	1	2	8
RP0+00 4+40E	2	634	2	176	.7	36	12	758	2.99	28	7	ND	1	66	.2	2	2	61	2.91	.104	13	41	.72	46	.09	9	1.99	.02	.04	1	2	7
RP0+00 4+80E	1	218	16	78	.1	39	21	831	5.38	8	5	ND	1	32	.9	2	2	100	.87	.072	6	45	1.99	26	.22	4	4.63	.01	.05	1	2	1
RP0+00 5+00E	3	491	12	283	.5	52	19	1192	4.73	56	5	ND	1	52	.3	2	2	93	1.80	.099	14	66	1.23	81	.15	3	3.07	.02	.06	1	3	12
RP0+50S 2+00W	1	91	10	94	.1	42	27	2061	5.23	17	5	ND	1	22	.2	2	2	93	.63	.072	6	61	1.07	59	.22	2	2.37	.02	.07	2	2	9
RP0+50S 1+80W	1	55	13	118	.2	49	30	696	7.23	34	5	ND	1	14	1.1	2	2	130	.47	.125	5	66	1.05	42	.26	5	2.62	.01	.09	1	3	15
RP0+50S 1+60W	1	94	12	74	.1	52	30	758	5.93	34	5	ND	1	25	.9	2	2	95	.99	.052	5	64	1.36	43	.19	2	2.41	.02	.11	1	2	40
RP0+50S 1+40W	1	429	4	78	.3	55	20	792	4.86	25	5	ND	1	31	1.3	2	2	68	1.33	.086	20	39	.85	79	.38	2	1.82	.05	.06	1	3	8
RP0+50S 1+20W	2	407	2	117	.4	55	34	1143	6.00	24	5	ND	1	27	.7	2	2	104	.78	.050	14	59	1.23	46	.16	4	2.75	.01	.08	1	2	6
RP0+50S 1+00W	8	154	8	121	.2	31	33	828	9.70	31	5	ND	1	21	1.7	2	2	148	.40	.110	3	60	1.10	47	.23	4	2.17	.01	.10	1	3	228
RP0+50S 0+80W	2	85	2	118	.3	26	40	1684	6.65	16	6	ND	1	24	1.0	2	2	116	.70	.155	4	54	.67	64	.26	5	1.44	.01	.12	1	3	31
RP0+50S 0+60W	1	51	2	128	.4	39	28	972	6.28	58	5	ND	1	16	.2	2	2	129	.49	.099	4	56	1.04	54	.21	2	2.06	.01	.13	1	2	18
RP0+50S 0+40W	1	70	8	93	.5	48	32	975	7.05	70	5	ND	1	21	.2	2	2	125	.55	.078	4	69	1.21	64	.15	2	2.41	.01	.13	2	2	191
RP0+50S 0+20W	1	141	5	125	.6	39	37	1373	7.87	39	5	ND	1	19	.6	2	2	128	.64	.106	5	54	1.06	56	.17	5	2.50	.01	.08	1	2	17
RP0+50S 0+00 BL	1	80	6	200	.6	34	23	1355	5.45	11	5	ND	1	16	.5	2	2	100	.35	.097	9	54	.74	52	.35	2	2.01	.01	.06	2	2	7
RP0+50S 0+20E	1	49	20	197	.4	66	30	781	7.09	10	5	ND	1	14	.7	2	2	144	.43	.103	4	83	2.05	44	.32	2	2.61	.01	.06	1	2	3
RP0+50S 0+40E	1	51	6	137	.4	63	24	487	6.70	15	5	ND	1	21	.9	2	2	124	.51	.056	4	103	1.39	47	.27	2	2.61	.01	.07	1	2	3
RP0+50S 0+60E	1	65	4	96	.5	43	28	930	6.43	30	5	ND	1	22	.3	2	2	107	.58	.071	2	89	1.55	39	.08	4	2.71	.01	.04	1	2	28
RP0+50S 0+80E	1	56	13	90	.3	46	28	917	6.60	25	5	ND	1	21	.6	2	2	125	.59	.071	3	97	1.68	42	.09	3	3.01	.01	.04	1	2	4
RP0+50S 1+00E	1	53	17	59	.1	52	27	1015	6.04	30	5	ND	1	19	.2	2	2	99	.80	.027	5	91	1.49	45	.06	4	2.65	.01	.02	1	2	5
RP0+50S 1+20E	1	106	7	61	.1	74	25	812	6.33	40	5	ND	1	22	.2	2	2	98	.94	.020	4	118	1.52	28	.02	6	1.94	.01	.02	1	2	5
RP0+50S 1+80E	1	151	7	74	.1	86	18	366	3.62	8	5	ND	1	53	1.4	2	2	85	2.37	.022	4	87	2.54	21	.19	4	2.52	.01	.02	1	2	6
RP1+00S 5+00W	1	84	20	82	.1	154	33	617	5.97	17	5	ND	1	25	.9	2	2	110	.51	.062	2	113	3.46	67	.17	8	4.63	.01	.09	1	6	16
RP1+00S 4+80W	1	75	17	95	.1	39	21	453	5.27	13	5	ND	1	29	.7	2	2	116	.46	.086	3	64	1.39	62	.12	4	3.02	.01	.05	1	2	13
RP1+00S 4+60W	1	81	23	82	.2	42	21	486	5.41	15	5	ND	1	31	.2	2	2	124	.49	.057	3	62	1.45	45	.14	6	3.08	.01	.07	1	2	39
RP1+00S 4+40W	1	88	14	98	.1	47	25	690	5.37	12	5	ND	1	40	.2	2	2	113	.70	.054	5	71	1.74	61	.14	6	3.35	.02	.07	1	2	13
RP1+00S 4+20W	1	70	15	107	.2	43	26	1007	5.49	16	5	ND	1	30	.5	2	2	114	.53	.094	4	66	1.45	62	.15	2	3.21	.02	.07	1	2	15
RP1+00S 4+00W	1	104	7	78	.1	49	24	694	5.50	17	5	ND	1	43	.2	2	2	120	.65	.065	4	80	1.83	79	.13	5	3.40	.01	.05	1	2	27
RP1+00S 3+80W	1	69	14	75	.1	40	20	557	5.07	16	5	ND	1	38	.6	3	2	121	.60	.067	3	71	1.52	81	.12	2	2.93	.02	.04	2	2	24
RP1+00S 3+60W	1	75	13	85	.1	40	22	659	5.57	15	5	ND	1	44	1.3	2	2	106	.61	.060	12	65	1.47	91	.29	3	3.49	.02	.05	1	2	12
RP1+00S 3+40W	1	174	2	74	.1	22	21	700	4.38	9	5	ND	1	87	.6	2	2	106	1.61	.105	5	28	1.52	67	.08	7	3.54	.03	.04	1	2	10
RP1+00S 3+20W	1	158	19	66	.1	18	22	682	5.16	10	5	ND	1	93	.6	2	2	139	1.73	.092	5	25	1.57	61	.08	8	3.51	.03	.04	1	2	19
RP1+00S 3+00W	1	105	14	81	.1	48	23	771	5.28	23	5	ND	1	41	.2	2	2	111	.70	.062	5	79	1.78	75	.12	4	3.16	.02	.05	1	3	19
STANDARD C/AU-S	18	58	37	132	7.1	67	30	967	3.84	39	20	6	36	48	17.3	15	19	55	.50	.089	37	57	.89	171	.08	36	1.85	.06	.14	11	2	54

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP1+00S 2+80W	1	116	15	89	.1	56	24	826	5.94	15	5	ND	1	67	.3	2	2	121	.95	.078	9	89	1.92	104	.19	2	3.61	.04	.05	1	2	20
RP1+00S 2+60W	1	138	11	80	.1	63	26	793	6.03	18	5	ND	1	65	.3	2	2	124	.92	.058	9	101	2.03	84	.16	5	3.42	.03	.05	1	2	19
RP1+00S 2+40W	1	121	10	88	.2	57	25	913	5.88	14	5	ND	1	62	.2	2	2	118	1.01	.059	7	81	1.91	64	.18	2	3.29	.03	.07	1	2	26
RP1+00S 2+20W	1	558	11	91	.3	60	22	814	5.97	9	5	ND	3	45	.2	3	3	92	.98	.104	32	55	1.14	107	.45	2	2.86	.08	.06	1	2	12
RP1+00S 2+00W	1	266	13	192	.7	60	25	1022	6.78	10	5	ND	2	32	.6	3	2	98	.70	.097	20	58	.82	75	.48	3	2.56	.06	.09	1	2	59
RP1+00S 1+80W	1	181	16	113	.5	69	25	790	5.97	8	5	ND	2	37	.6	2	3	98	.74	.070	12	62	1.23	52	.34	2	2.90	.04	.10	1	2	68
RP1+00S 1+60W	1	74	9	107	.6	62	31	687	8.69	31	5	ND	1	22	.2	4	2	134	.59	.091	9	79	1.05	46	.45	5	2.40	.04	.11	1	2	10
RP1+00S 1+40W	1	108	9	107	.4	57	27	742	6.23	25	5	ND	1	35	.2	2	2	94	.89	.066	8	74	1.12	56	.30	2	2.23	.03	.08	2	2	1
RP1+00S 1+20W	1	288	12	126	.5	66	24	842	6.36	15	5	ND	2	33	.2	2	2	85	.90	.084	17	53	.92	55	.53	2	2.31	.06	.05	1	2	8
RP1+00S 1+00W	1	368	8	73	.3	84	31	952	6.21	22	5	ND	1	40	.3	4	2	90	1.13	.080	15	77	1.68	51	.21	4	2.95	.04	.09	1	2	100
RP1+00S 0+80W	1	128	14	281	.4	64	40	997	9.07	18	5	ND	1	27	.4	5	2	127	.66	.095	8	88	1.24	57	.42	4	2.33	.03	.16	1	2	53
RP1+00S 0+60W	1	118	9	100	.6	48	35	766	8.41	38	5	ND	1	31	.4	4	2	136	.68	.067	7	74	.98	43	.28	3	2.41	.03	.12	2	2	241
RP1+00S 0+40W	1	99	6	103	.4	37	24	560	7.94	17	5	ND	1	30	.6	3	2	141	.62	.070	5	64	1.29	50	.22	2	2.43	.02	.16	1	2	53
RP1+00S 0+00 BL	1	109	10	73	.2	48	25	602	7.70	16	5	ND	1	31	.2	2	2	148	.73	.060	4	68	1.68	40	.17	5	3.02	.03	.10	1	2	36
RP1+00S 1+00E	1	122	10	67	.2	60	21	556	5.86	18	5	ND	1	37	.2	4	2	105	1.28	.040	4	111	2.20	33	.08	3	3.20	.02	.02	1	2	5
RP1+00S 1+20E	1	89	6	77	.1	126	29	655	6.18	38	5	ND	1	51	.2	5	2	116	1.76	.038	5	155	3.28	40	.13	6	3.15	.02	.02	1	2	5
RP1+00S 1+40E	1	155	10	53	.1	115	26	851	7.23	61	5	ND	1	46	.3	4	2	103	1.19	.054	8	152	1.57	33	.01	5	1.87	.01	.02	1	2	7
RP1+00S 2+00E	1	57	6	72	.2	207	37	616	6.13	4	5	ND	1	31	.2	2	3	117	1.50	.019	3	107	4.73	13	.21	4	3.95	.02	.02	1	2	2
RP1+00S 2+40E	1	399	6	226	.4	137	39	1087	5.80	9	5	ND	1	37	1.1	5	2	111	1.56	.040	6	115	2.88	36	.26	4	3.38	.05	.05	1	2	1
RP1+00S 3+00E	1	82	6	71	.4	110	29	563	6.23	9	5	ND	1	68	.5	2	4	131	.93	.028	4	114	2.81	33	.29	3	3.56	.05	.05	1	2	11
RP1+00S 3+20E	1	62	8	71	.3	51	20	480	7.23	10	5	ND	1	47	.6	5	2	152	.66	.026	4	87	1.44	49	.22	3	3.44	.03	.04	2	2	49
RP1+00S 3+40E	3	74	11	97	.3	25	16	498	8.52	14	5	ND	1	28	.3	3	2	123	.71	.052	10	51	.66	36	.49	2	3.02	.03	.04	2	3	14
RP1+00S 3+60E	2	128	12	138	.4	28	15	479	7.61	19	5	ND	3	33	.8	7	2	96	.63	.058	12	44	.55	54	.50	5	4.03	.03	.05	1	2	5
RP1+00S 4+00E	2	1199	16	286	.8	42	21	1104	6.11	20	5	ND	2	68	1.1	4	2	134	1.72	.097	16	57	.96	76	.34	6	2.91	.06	.05	1	2	6
RP1+00S 4+20E	1	329	36	327	.2	34	22	823	6.37	26	5	ND	1	55	.9	3	2	149	.93	.056	7	53	1.40	60	.20	3	3.36	.02	.11	1	2	4
RP1+00S 4+60E	1	277	11	183	.7	19	18	884	7.27	7	5	ND	1	34	.7	3	2	136	.64	.077	11	40	.60	61	.42	3	2.56	.03	.05	1	2	1
RP1+00S 4+80E	1	135	15	132	.2	30	25	713	8.69	37	5	ND	1	49	.2	2	2	156	.47	.114	6	53	1.13	49	.21	4	3.85	.02	.08	1	3	10
RP1+00S 5+80E	1	96	14	100	.2	65	27	677	6.96	33	5	ND	1	33	.8	5	2	128	.45	.069	7	84	1.81	54	.35	6	3.74	.04	.09	1	2	14
RP1+50S 2+00W	1	148	2	85	.2	57	23	973	5.49	11	5	ND	2	50	.3	2	2	73	1.60	.096	22	51	1.14	86	.42	2	2.20	.09	.06	2	2	6
RP1+50S 1+80W	1	98	6	83	.4	40	18	900	4.42	8	5	ND	1	50	.6	2	2	75	1.82	.085	15	48	.80	84	.27	4	2.17	.05	.04	1	2	1
RP1+50S 1+60W	1	109	15	103	.3	59	30	825	7.09	23	5	ND	1	46	.5	7	2	125	.70	.046	7	82	1.67	70	.24	5	3.94	.03	.08	2	2	40
RP1+50S 1+40W	1	68	10	243	.6	35	23	1287	7.40	14	5	ND	2	31	1.0	4	2	97	.85	.080	17	51	.60	57	.42	6	2.62	.03	.10	1	2	2
RP1+50S 1+20W	1	53	12	135	.4	49	36	1257	6.10	8	5	ND	2	21	.8	3	2	109	.51	.075	9	70	.94	52	.36	7	2.12	.03	.13	1	2	29
RP1+50S 1+00W	16	181	12	92	.5	94	37	566	10.14	14	5	ND	1	21	.4	11	2	130	.53	.078	6	92	1.74	49	.34	6	2.94	.03	.09	1	2	14
RP1+50S 0+80W	2	152	12	87	.2	58	45	1073	7.66	49	5	ND	1	34	.8	3	2	119	.63	.055	6	70	1.32	85	.20	4	3.06	.03	.08	1	3	40
RP1+50S 0+60W	16	164	12	94	.3	35	29	545	10.78	21	5	ND	1	23	.3	4	2	129	.33	.090	6	63	.91	40	.34	2	2.36	.02	.06	2	2	141
STANDARD C/AU-S	18	58	39	129	7.3	70	32	1013	3.68	41	22	7	39	53	18.7	16	19	55	.49	.097	38	60	.89	181	.08	37	1.84	.06	.14	11	2	47

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP1+50S 1+00E	1	66	7	91	.3	87	33	700	6.35	13	5	ND	1	27	1.1	2	2	127	.86	.047	3	152	2.45	39	.15	7	3.70	.01	.03	1	2	24
RP1+50S 1+20E	1	62	7	88	.7	77	28	785	6.69	19	5	ND	1	37	1.7	2	2	137	1.03	.067	3	140	1.94	50	.12	7	3.06	.01	.07	1	3	7
RP1+50S 1+40E	1	71	5	78	.3	92	32	933	7.03	57	5	ND	1	23	1.4	2	2	154	.67	.069	3	140	2.45	36	.10	5	3.21	.01	.02	1	2	3
RP2+00S 5+00W	1	68	12	63	.2	39	19	406	5.81	9	5	ND	1	24	1.0	2	2	127	.54	.066	4	49	1.18	50	.24	6	2.53	.03	.06	1	2	4
RP2+00S 4+80W	1	62	8	67	.3	60	22	558	4.87	9	5	ND	1	30	1.3	2	4	95	.59	.061	4	60	1.52	56	.19	6	2.89	.02	.06	1	2	4
RP2+00S 4+60W	1	48	7	95	.2	64	26	607	7.41	20	5	ND	1	15	1.4	2	2	119	.42	.144	8	61	1.35	43	.52	2	2.91	.03	.05	1	2	1
RP2+00S 4+40W	1	65	8	71	.2	49	23	601	5.40	8	5	ND	1	31	1.0	2	2	116	.68	.061	4	57	1.39	56	.24	3	2.63	.02	.10	1	2	8
RP2+00S 4+20W	1	80	7	53	.1	51	23	583	4.70	19	5	ND	1	30	.4	2	2	94	.65	.050	2	62	1.28	56	.13	8	2.40	.02	.12	1	2	7
RP2+00S 3+80W	1	66	20	131	.4	49	29	991	5.62	11	5	ND	1	33	1.4	3	2	108	.77	.128	4	64	1.62	83	.15	3	3.29	.02	.12	1	6	5
RP2+00S 3+60W	1	73	12	121	.3	42	25	1171	5.38	9	5	ND	1	40	.9	2	2	109	.76	.082	4	63	1.54	81	.15	3	3.31	.01	.10	1	2	11
RP2+00S 3+40W	1	56	13	112	.4	42	25	716	5.44	10	5	ND	1	32	.9	2	2	115	.52	.089	3	63	1.48	50	.13	2	3.10	.01	.07	1	2	2
RP2+00S 3+20W	1	51	21	216	.2	38	24	787	5.27	8	5	ND	1	38	1.7	2	2	102	.85	.063	3	55	1.59	74	.17	4	3.15	.02	.08	1	2	2
RP2+00S 3+00W	1	326	13	82	.4	46	22	1338	4.65	6	5	ND	1	52	.5	2	2	99	1.66	.086	10	52	1.51	94	.14	3	3.12	.03	.05	1	2	8
RP2+00S 2+80W	1	120	10	68	.1	15	25	753	7.68	9	5	ND	1	79	1.6	2	2	266	1.32	.084	5	26	1.29	54	.11	3	3.00	.02	.03	1	2	15
RP2+00S 2+60W	1	215	8	78	.2	26	27	1137	5.44	3	5	ND	1	97	1.5	2	2	135	1.75	.108	8	33	1.72	89	.08	4	4.62	.03	.04	1	3	15
RP2+00S 2+40W	1	85	2	98	.2	46	26	1131	5.86	10	5	ND	1	51	1.6	2	2	115	.78	.098	7	64	1.58	87	.23	9	3.44	.02	.11	1	4	8
RP2+00S 2+20W	1	110	11	104	.3	50	26	1102	5.78	12	5	ND	1	47	.4	2	2	122	.72	.078	5	75	1.86	86	.14	2	3.75	.02	.06	2	2	16
RP2+00S 2+00W	1	104	7	108	.4	41	22	950	5.51	12	5	ND	1	38	.8	2	2	104	.65	.077	10	63	1.43	86	.27	4	3.37	.02	.05	1	2	8
RP2+00S 1+80W	1	104	8	111	.4	45	25	1116	5.95	13	6	ND	1	38	1.4	2	2	112	.67	.093	6	62	1.47	69	.23	2	3.66	.02	.08	1	2	8
RP2+00S 1+60W	1	65	7	112	.3	41	22	784	5.75	6	5	ND	1	37	1.0	2	2	106	.59	.074	7	52	1.28	79	.26	2	3.26	.02	.10	1	2	5
RP2+00S 1+40W	1	66	21	111	.2	49	28	884	6.52	16	5	ND	1	26	1.8	2	2	115	.54	.065	7	58	1.12	60	.33	8	2.95	.02	.11	2	2	32
RP2+00S 1+20W	1	62	8	108	.2	42	25	846	6.62	11	5	ND	1	30	1.6	2	2	106	.68	.056	8	55	1.10	47	.38	3	2.70	.02	.08	2	2	10
RP2+00S 1+00W	1	74	5	62	.1	29	20	565	6.46	17	5	ND	1	29	.2	2	2	102	.65	.047	3	38	1.06	29	.12	2	2.58	.01	.06	1	2	23
RP2+00S 0+80W	1	84	7	130	.2	29	40	1241	7.43	24	5	ND	1	22	.8	2	2	117	.64	.095	4	52	.77	49	.16	6	1.90	.01	.10	1	2	3
RP2+00S 1+20E	1	89	9	83	.3	110	36	783	6.42	15	5	ND	1	33	.6	2	2	120	.82	.038	4	166	2.71	37	.09	2	3.64	.01	.02	1	2	12
RP2+00S 1+40E	1	110	2	109	.1	91	22	765	5.70	12	5	ND	1	30	1.1	2	2	116	.97	.040	6	111	2.27	50	.17	3	3.07	.01	.02	1	2	3
RP2+00S 1+80E	1	81	7	126	.3	75	29	723	6.76	9	5	ND	1	28	2.5	2	2	145	.57	.091	6	94	1.96	72	.28	6	3.76	.01	.04	1	2	3
RP2+00S 2+00E	2	64	18	114	.1	79	25	1011	5.47	2	5	ND	1	43	.9	2	2	136	1.01	.042	3	94	2.74	47	.18	2	3.11	.01	.04	1	2	5
RP2+00S 2+20E	2	86	9	111	.3	42	20	533	5.81	6	5	ND	1	39	1.1	2	2	131	.62	.041	5	58	1.47	69	.21	2	3.59	.01	.04	1	2	5
RP2+00S 2+40E	2	93	8	101	.1	61	23	653	6.24	8	5	ND	1	39	1.1	2	2	131	.63	.047	6	73	2.05	53	.28	7	3.58	.02	.04	2	2	7
RP2+00S 2+60E	1	74	10	102	.2	45	22	655	6.65	4	5	ND	1	27	.7	2	2	152	.52	.086	5	60	1.47	55	.29	4	2.90	.01	.06	1	2	11
RP2+00S 2+80E	1	58	15	139	.1	66	26	720	6.90	4	5	ND	1	41	2.0	2	2	144	.59	.078	5	81	2.28	37	.28	5	3.28	.01	.04	1	2	13
RP2+00S 3+40E	3	58	10	128	.4	16	18	654	7.24	36	5	ND	1	30	1.3	2	2	187	.49	.093	5	31	.67	56	.20	4	2.10	.02	.05	2	2	18
RP2+00S 3+60E	4	61	15	163	.3	16	20	817	7.56	15	5	ND	1	22	1.1	2	2	175	.29	.120	5	30	.66	53	.19	6	1.93	.01	.07	2	2	36
RP2+00S 3+80E	5	101	8	148	.1	23	24	1239	8.76	23	5	ND	1	23	.9	2	2	170	.27	.088	7	36	.87	41	.26	2	2.43	.01	.07	1	2	35
RP2+00S 4+00E	4	190	12	129	.2	30	22	1071	5.48	28	6	ND	1	32	.5	2	2	117	.87	.043	7	48	1.31	78	.19	2	2.88	.01	.09	2	2	51
STANDARD C/AU-S	17	57	35	132	7.2	68	31	1030	4.03	37	23	7	36	47	17.5	15	20	57	.52	.095	36	56	.92	172	.08	38	1.94	.06	.14	11	2	49

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP2+00S 4+20E	2	161	2	178	.2	33	17	872	4.93	20	5	ND	1	29	2.5	2	2	84	1.15	.075	11	37	.95	53	.34	2	2.20	.03	.05	1	2	6
RP2+00S 4+40E	2	107	13	159	.7	26	17	702	5.94	26	5	ND	1	35	1.8	2	2	133	.71	.046	5	40	1.05	51	.15	2	2.87	.02	.05	1	2	12
RP2+00S 4+60E	2	95	12	372	.5	33	29	1623	6.05	42	5	ND	1	31	2.5	2	4	126	.65	.080	7	45	1.06	64	.22	4	2.70	.02	.06	1	2	4
RP2+00S 4+80E	1	129	19	270	.4	47	23	979	6.01	43	5	ND	1	40	1.4	2	2	126	.87	.074	3	64	1.80	95	.14	3	3.47	.02	.15	1	2	8
RP2+00S 5+00E	1	61	10	385	.4	33	29	2149	6.09	15	5	ND	1	23	1.8	2	2	112	.41	.094	7	54	.90	81	.36	5	2.50	.02	.07	1	2	6
RP2+50S 1+40E	2	200	11	130	.7	60	39	621	6.82	42	5	ND	1	26	2.7	2	2	118	.96	.061	3	74	1.45	59	.10	2	3.59	.01	.05	1	2	16
RP2+50S 1+60E	1	50	9	81	.1	140	33	716	6.38	18	5	ND	1	16	1.8	2	2	122	.94	.027	3	184	3.12	26	.13	7	3.27	.01	.01	1	2	3
RP2+50S 1+80E	1	71	17	91	.1	123	29	581	6.11	8	5	ND	1	22	1.9	2	2	128	.63	.021	3	140	3.26	41	.20	5	4.09	.01	.02	1	2	2
RP3+00S 5+00W	2	44	18	120	.4	33	18	387	6.22	13	5	ND	1	20	.8	2	2	136	.45	.090	5	51	1.01	60	.24	6	3.18	.02	.05	2	2	11
RP3+00S 4+80W	1	76	9	76	.3	48	20	537	5.43	18	5	ND	1	28	1.4	2	2	118	.58	.095	4	65	1.50	81	.16	10	3.49	.02	.07	1	2	27
RP3+00S 4+60W	1	26	9	72	.2	18	12	370	4.97	5	5	ND	1	19	1.3	2	2	125	.38	.085	6	35	.57	60	.26	4	1.67	.02	.06	1	4	4
RP3+00S 4+40W	1	30	4	112	.2	38	20	472	6.62	7	5	ND	1	13	2.0	2	4	102	.31	.120	10	44	.64	42	.50	6	3.54	.03	.06	1	2	1
RP3+00S 4+20W	1	32	9	201	.2	50	33	1897	5.43	6	5	ND	1	17	1.6	2	2	98	.59	.132	7	55	1.15	97	.30	7	2.57	.04	.09	1	2	3
RP3+00S 4+00W	1	53	3	95	.2	64	25	491	5.69	11	5	ND	1	21	1.7	2	2	109	.63	.086	4	84	1.83	39	.21	7	2.90	.02	.06	1	2	14
RP3+00S 3+80W	1	77	13	127	.9	69	40	2228	4.55	5	5	ND	1	24	1.2	2	2	79	1.13	.097	4	78	1.42	97	.19	2	2.22	.03	.12	1	2	39
RP3+00S 3+60W	1	55	2	73	.1	78	28	687	5.05	8	5	ND	1	20	1.4	2	2	109	.92	.058	4	85	1.87	60	.21	2	2.86	.04	.11	1	2	6
RP3+00S 3+40W	1	98	9	58	.1	67	21	712	4.32	8	5	ND	1	42	.2	2	2	95	1.01	.072	4	57	1.77	51	.13	7	2.50	.03	.07	1	2	11
RP3+00S 3+20W	1	132	15	87	.2	57	18	674	4.10	8	5	ND	1	48	.7	2	2	86	1.35	.057	3	60	1.65	58	.12	7	2.41	.02	.06	1	2	39
RP3+00S 3+00W	1	306	13	69	.7	65	23	873	4.63	13	5	ND	1	38	.8	2	2	92	1.24	.051	7	56	1.44	48	.13	5	2.63	.02	.07	1	2	16
RP3+00S 2+80W	1	684	14	86	.8	64	21	945	4.36	14	5	ND	1	48	1.0	2	2	86	1.75	.065	24	65	1.39	72	.12	7	3.23	.02	.05	1	2	15
RP3+00S 2+60W	1	222	6	72	.1	44	19	691	4.48	9	5	ND	1	55	.6	2	2	90	1.50	.103	10	60	1.42	102	.16	8	2.78	.03	.05	1	2	16
RP3+00S 2+40W	1	84	10	97	.1	37	23	933	5.14	10	5	ND	1	42	.7	2	2	106	.86	.035	5	63	1.55	63	.17	7	2.93	.02	.06	1	2	17
RP3+00S 2+00W	1	82	8	51	.1	16	20	604	7.87	6	5	ND	1	78	1.4	2	2	276	1.36	.086	4	24	1.17	32	.11	7	2.33	.02	.03	1	2	14
RP3+00S 1+80W	1	143	8	67	.2	23	18	545	5.06	14	5	ND	1	84	.5	2	2	132	1.67	.110	6	29	1.52	75	.09	4	3.57	.03	.03	1	2	15
RP3+00S 1+60W	1	94	9	80	.3	39	21	943	5.30	12	5	ND	1	46	1.3	2	2	106	.98	.064	6	60	1.44	80	.17	6	3.04	.02	.06	1	2	11
RP3+00S 1+40W	2	44	10	84	.1	34	19	769	6.02	6	5	ND	2	29	1.5	2	2	81	.62	.112	20	40	.78	91	.51	4	3.24	.05	.05	2	2	12
RP3+00S 1+20W	1	75	6	134	.6	48	26	1314	5.39	7	5	ND	1	34	.6	2	2	112	.71	.070	5	60	1.33	72	.13	3	3.19	.02	.13	1	2	7
RP3+00S 1+00W	1	119	12	127	.2	52	24	1287	5.02	12	5	ND	1	37	.9	2	2	105	.92	.124	4	64	1.42	91	.09	9	2.90	.02	.19	2	2	2
RP3+00S 0+80W	1	116	6	234	.4	51	29	1342	5.46	15	5	ND	1	36	1.3	2	2	113	1.17	.064	5	59	1.18	85	.13	8	2.78	.01	.24	1	2	9
RP3+00S 0+60W	1	97	8	119	.2	59	26	1009	6.14	19	5	ND	1	33	1.5	2	2	118	.90	.042	5	62	1.31	53	.27	6	3.24	.02	.16	1	2	1
RP3+00S 0+40W	1	70	16	175	.2	28	34	1785	5.92	7	5	ND	1	41	1.4	2	2	113	1.28	.074	5	40	.80	79	.21	5	2.03	.01	.12	1	2	1
RP3+00S 0+20W	1	98	9	137	.3	51	32	1895	5.97	12	5	ND	1	42	.8	2	2	100	1.43	.096	4	44	.94	87	.13	2	2.34	.01	.26	1	2	8
RP4+00S 5+00W	1	43	9	129	.2	48	19	465	6.04	11	5	ND	1	18	.6	2	2	122	.40	.074	5	64	1.31	43	.30	3	2.43	.02	.06	1	2	15
RP4+00S 4+80W	1	44	18	135	.3	33	17	408	6.62	6	5	ND	1	15	1.5	2	2	115	.30	.078	9	48	.78	53	.50	5	2.57	.02	.05	1	2	4
RP4+00S 4+60W	2	49	7	87	.2	28	14	445	5.75	7	6	ND	1	19	.7	2	2	115	.49	.087	10	45	.68	51	.51	6	2.23	.03	.05	2	2	1
RP4+00S 4+40W	2	128	16	77	.2	28	17	462	5.41	2	6	ND	2	18	1.2	2	2	83	.45	.102	18	46	.50	55	.46	4	4.11	.03	.03	1	2	1
STANDARD C/AU-S	18	57	35	133	7.2	67	30	1023	4.03	39	25	7	37	47	17.6	15	19	57	.52	.095	36	56	.93	173	.08	38	1.96	.06	.14	12	2	48

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP4+00S 4+20W	1	33	10	266	.5	37	38	1568	5.73	8	5	ND	1	22	2.1	2	2	96	.54	.096	9	49	.92	97	.38	2	2.58	.03	.10	2	2	6
RP4+00S 4+00W	1	49	17	177	.5	79	33	783	6.04	13	5	ND	1	21	1.0	2	2	124	.80	.078	5	84	2.05	52	.30	2	3.08	.05	.11	1	2	10
RP4+00S 3+60W	1	52	6	99	.2	34	23	428	7.26	16	5	ND	1	19	1.6	2	2	148	.53	.064	8	52	1.07	48	.40	5	3.30	.03	.06	1	2	7
RP4+00S 3+40W	1	78	20	153	.1	64	26	989	6.15	10	5	ND	1	33	1.8	2	2	130	.72	.094	4	72	1.98	86	.25	7	4.01	.03	.08	1	2	1
RP4+00S 3+20W	1	63	14	101	.1	66	29	501	6.43	12	5	ND	1	22	2.5	2	2	117	.63	.084	6	72	1.85	54	.30	4	3.21	.03	.07	1	2	8
RP4+00S 3+00W	1	44	5	107	.1	46	20	839	5.59	9	5	ND	1	28	1.5	3	5	116	.61	.096	5	65	1.60	64	.27	4	2.49	.03	.07	1	2	5
RP4+00S 2+80W	1	70	11	118	.3	49	29	1899	6.02	12	5	ND	1	39	.7	2	2	110	.85	.116	6	60	1.33	94	.22	5	3.35	.02	.11	1	2	5
RP4+00S 2+60W	1	490	9	101	.8	96	28	2022	5.19	8	5	ND	1	42	1.1	2	2	87	1.36	.069	8	58	1.43	71	.17	3	3.00	.03	.07	2	4	6
RP4+00S 2+40W	1	240	8	120	.2	56	22	968	5.34	12	5	ND	1	48	1.7	2	2	92	1.34	.063	7	56	1.47	66	.20	3	3.21	.03	.07	1	2	10
RP4+00S 2+20W	1	122	8	86	.1	48	22	736	4.99	11	5	ND	1	46	.9	2	2	107	1.15	.065	5	58	1.93	80	.19	4	3.15	.04	.09	1	2	4
RP4+00S 2+00W	1	161	7	76	.3	43	23	1119	5.11	15	5	ND	1	61	.9	2	2	101	1.54	.090	8	52	1.60	122	.16	5	3.47	.03	.05	1	2	7
RP4+00S 1+80W	1	191	4	101	.2	45	23	956	5.21	11	5	ND	1	44	1.2	2	2	97	1.36	.075	8	46	1.70	87	.21	12	3.14	.03	.07	1	2	19
RP4+00S 1+60W	1	97	5	102	.1	33	20	644	5.74	9	5	ND	1	38	.7	2	2	118	.71	.049	7	53	1.43	56	.31	7	3.35	.02	.07	1	2	23
RP4+00S 1+40W	1	98	4	123	.2	33	29	2027	5.31	4	5	ND	1	54	2.1	2	2	108	1.01	.089	6	49	1.52	89	.20	4	3.10	.02	.10	1	2	9
RP4+00S 1+20W	1	166	19	98	.3	39	27	1656	4.98	5	5	ND	1	53	.6	2	2	100	1.11	.098	8	52	1.37	95	.16	6	2.94	.02	.10	1	3	14
RP4+00S 1+00W	1	453	9	72	.3	46	19	792	4.72	11	6	ND	1	66	1.1	2	2	102	1.36	.063	8	56	1.61	80	.13	6	3.32	.02	.09	1	2	10
RP4+00S 0+60W	1	199	13	93	.1	25	24	812	4.94	9	5	ND	1	96	.8	2	2	119	1.77	.106	5	29	1.66	67	.12	8	4.08	.03	.06	1	2	12
RP4+00S 0+40W	1	191	11	71	.1	22	24	630	4.98	11	5	ND	1	122	.8	2	3	131	1.93	.112	6	24	1.60	59	.13	7	4.10	.04	.05	2	2	11
RP4+00S 0+20W	1	178	4	69	.1	18	23	479	4.94	12	5	ND	1	123	1.3	3	2	149	2.13	.119	6	20	1.63	67	.11	5	4.20	.04	.03	2	2	17
RP4+00S 0+00 BL	1	169	9	81	.1	33	26	726	5.72	12	5	ND	1	96	1.4	2	2	142	1.60	.073	6	47	1.83	76	.15	3	4.44	.03	.05	2	2	13
STANDARD C/AU-S	17	57	37	133	7.2	67	31	1024	4.03	38	25	7	37	47	17.6	15	22	57	.52	.095	36	55	.93	174	.08	36	1.92	.06	.14	12	2	49

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake International Minerals PROJECT 3132 File # 90-2565 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb	SAMPLE lb
31856	5	624	20	49	.6	26	54	671	13.51	2	5	ND	1	10	.2	2	2	115	.61	.125	7	33	.72	110	.20	5	1.97	.02	.30	1	3	174	12
31857	8	773	33	32	.7	19	126	312	25.87	43	5	ND	1	10	.2	2	2	103	.15	.087	3	16	.31	9	.14	14	1.06	.02	.16	1	9	262	8
31858	1	205	22	77	.4	25	29	1036	8.16	13	5	ND	1	43	1.2	5	2	139	1.51	.106	9	28	1.02	40	.17	9	3.28	.05	.09	1	2	80	12
31859	1	67	21	39	.2	13	29	953	7.00	5	5	ND	1	40	1.7	5	2	82	2.98	.143	7	18	.96	8	.19	6	3.85	.02	.02	1	2	19	9
31860	19	1549	16	55	1.5	16	114	1080	18.37	921	7	ND	1	32	.2	2	4	92	1.29	.115	24	35	.83	25	.06	10	2.34	.01	.07	1	8	965	11
31861	1	52	19	37	.1	38	14	676	6.21	2	5	ND	1	18	1.6	9	2	30	4.14	.045	3	59	2.41	30	.12	4	3.50	.03	.20	1	2	7	4
31862	1	535	9	35	.3	30	12	353	2.44	6	5	ND	1	47	.6	5	2	21	2.98	.074	3	42	1.36	3	.17	2	2.05	.02	.06	1	2	13	3
31863	4	18133	2	49	1.0	14	14	408	4.20	2	5	ND	1	54	3.4	6	7	103	1.95	.050	3	26	1.39	11	.22	9	2.94	.05	.07	1	2	5	2
31864	3	286	7	23	.2	7	21	359	6.68	20	5	ND	1	111	1.9	3	2	63	2.71	.227	4	16	.95	78	.15	18	3.90	.06	.08	1	2	23	3
31865	15	171	13	289	1.0	33	32	354	11.34	2	6	ND	1	58	1.0	5	2	67	2.75	.431	21	24	.86	11	.28	9	3.21	.01	.04	1	2	5	3
35053	1	353	13	132	.3	16	15	1150	6.76	8	5	ND	1	26	1.6	5	2	95	1.64	.070	8	17	.92	31	.24	5	2.75	.06	.05	4	2	24	10
35054	1	72	7	72	.1	7	4	1230	3.51	8	5	ND	1	54	.8	2	2	30	1.19	.099	9	7	.61	30	.16	5	1.42	.06	.05	1	2	10	8
35055	1	145	15	62	.4	170	28	1044	6.34	8	5	ND	1	69	.5	12	2	116	8.90	.105	3	111	2.83	18	.17	9	3.71	.05	.09	1	2	5	8
35056	1	191	9	96	.5	17	22	936	8.54	2	5	ND	1	93	.9	7	2	201	2.37	.104	5	23	1.32	49	.23	5	5.04	.18	.18	1	8	7	14
35057	1	201	6	26	.2	25	20	464	5.88	2	5	ND	1	38	1.6	4	2	145	1.76	.117	4	34	1.28	44	.29	11	2.24	.11	.34	1	2	17	8
35058	1	191	13	28	.2	51	19	468	4.38	6	5	ND	1	40	1.7	5	2	89	1.57	.086	7	64	1.21	34	.21	4	2.27	.13	.27	2	2	10	10
35059	1	136	2	36	.1	103	21	393	3.45	7	5	ND	1	38	1.8	11	2	68	1.93	.088	5	120	2.57	130	.18	5	2.35	.05	.49	1	2	48	10
35131	1	116	10	73	.1	145	23	608	3.23	8	5	ND	1	33	.6	5	3	72	2.26	.081	6	67	2.35	54	.19	9	1.93	.04	.04	1	2	21	10
35132	1	235	5	64	.1	11	14	810	4.89	9	5	ND	1	35	.6	2	2	108	1.62	.166	15	10	.79	54	.25	9	1.77	.05	.06	1	2	12	10
35133	1	40	7	90	.1	11	11	1079	3.93	5	5	ND	1	78	.3	4	2	61	1.98	.102	6	22	1.29	57	.12	4	2.38	.06	.06	1	2	13	7
35134	1	44	2	92	.1	13	13	1065	5.65	3	5	ND	1	101	2.3	6	2	85	2.43	.096	4	19	1.49	59	.04	2	2.58	.08	.09	1	2	10	8
35135	1	77	6	73	.2	418	42	592	5.81	2	5	ND	1	20	2.5	4	2	62	.78	.063	4	348	6.69	13	.14	4	5.96	.02	.01	1	2	14	4
35136	1	206	18	84	.3	26	16	688	5.56	4	5	ND	1	17	1.8	6	2	142	1.53	.166	8	19	1.58	29	.34	8	2.38	.05	.05	2	2	19	7
35137	1	214	5	82	.1	1	11	821	5.27	2	5	ND	1	28	2.1	2	2	89	1.42	.210	19	9	.77	45	.24	9	1.74	.06	.06	1	2	12	5
35138	1	182	10	80	.4	4	17	962	7.82	2	5	ND	1	75	1.2	8	2	149	2.78	.084	7	28	1.43	42	.21	11	5.02	.11	.09	1	2	22	5
35139	1	410	29	66	.7	17	23	906	8.58	2	5	ND	1	14	1.0	8	2	152	1.42	.071	4	48	1.84	9	.22	9	3.05	.04	.02	1	2	8	7
35140	1	226	24	89	.4	16	20	827	9.18	2	5	ND	1	131	1.1	9	2	199	2.10	.101	6	19	1.05	62	.23	9	4.91	.24	.07	1	2	12	8
35141	1	47	5	12	.3	5	16	259	5.40	3	5	ND	1	27	.8	2	2	45	1.79	.125	6	8	.39	27	.14	8	1.68	.05	.07	1	2	9	8
35142	1	47	6	77	.3	2	11	1096	5.43	2	5	ND	1	97	.9	6	2	116	2.97	.083	5	19	1.28	61	.08	12	3.33	.13	.09	1	4	18	7
35143	1	157	6	70	.2	14	15	560	5.52	2	5	ND	1	33	1.5	2	2	142	2.15	.155	10	13	.96	19	.24	11	2.62	.06	.10	1	2	23	6
35144	1	146	3	43	.2	6	10	873	4.68	2	5	ND	1	13	1.5	4	2	119	.54	.095	11	27	1.17	52	.29	2	1.19	.06	.28	3	8	5	8
35145	1	276	6	24	.2	6	11	374	5.37	9	5	ND	1	19	1.3	2	3	123	1.91	.094	7	22	.84	19	.15	11	2.32	.06	.08	1	2	22	7
35146	1	42	6	88	.3	1	15	1533	7.94	2	5	ND	1	86	1.5	10	2	155	3.08	.092	5	29	1.71	54	.10	8	4.45	.14	.08	1	4	10	8
35226	1	176	21	54	.6	10	11	812	13.77	2	5	ND	1	508	.3	2	2	127	2.37	.431	14	23	.76	51	.27	11	3.61	.03	.11	1	2	6	2
35227	1	214	9	36	.4	3	16	447	7.32	2	5	ND	1	60	.3	5	2	100	2.62	.062	2	16	1.04	35	.16	12	4.20	.03	.05	1	2	5	2
35228	1	14	17	182	.4	31	11	740	6.87	13	6	ND	1	56	.2	7	2	101	7.89	.199	19	105	.78	27	.16	5	2.62	.04	.10	1	2	4	4
STANDARD C/AU-R	20	63	38	134	7.1	70	30	1045	3.96	42	20	7	36	50	17.4	16	22	57	.48	.086	41	56	.88	182	.08	37	1.93	.06	.14	11	2	540	-

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Rock AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 17 1990 DATE REPORT MAILED: July 20/90 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Homestake International Minerals PROJECT 3132 FILE # 90-2565

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb	SAMPLE lb
35261	6	1658	2	56	2.3	32	379	841	32.44	161	5	ND	1	21	.2	2	2	55	.51	.082	14	32	.47	10	.09	4	1.17	.01	.09	1	6	550	14
35262	6	8136	11	233	10.5	21	259	573	22.95	59	5	ND	1	10	.9	5	2	64	.39	.065	36	36	.41	22	.05	13	1.54	.01	.04	1	2	295	16
35263	4	526	2	67	.3	10	50	760	8.15	8	5	ND	1	18	2.2	4	2	115	.90	.082	10	31	.92	35	.16	5	2.48	.03	.06	1	3	4	18
35264	1	401	4	68	.3	24	54	935	10.39	17	5	ND	1	21	.2	6	2	150	.85	.085	9	48	1.33	46	.20	9	3.12	.02	.07	1	2	16	16
35265	1	365	7	94	.4	16	49	970	7.84	20	5	ND	1	20	1.1	5	2	99	1.14	.156	13	25	1.09	70	.25	6	2.12	.03	.12	1	9	11	17
35266	1	254	4	75	.3	11	29	932	6.69	3	5	ND	1	53	1.1	3	2	87	2.77	.146	11	25	.97	53	.19	3	2.07	.03	.09	1	3	11	18
35267	1	144	6	75	.1	24	25	1186	8.45	6	5	ND	1	35	1.6	3	3	81	3.81	.139	11	25	.90	36	.11	9	1.68	.03	.05	1	2	5	16
35268	1	469	11	86	.3	33	54	1481	12.92	2	5	ND	1	30	1.2	7	2	106	3.43	.067	6	38	1.10	16	.09	6	1.78	.01	.05	1	2	20	12
35269	1	187	4	56	.2	11	25	688	7.60	3	5	ND	1	19	3.6	7	2	144	.88	.082	8	34	1.36	65	.26	7	2.58	.04	.33	3	7	4	15
35270	9	564	10	52	.7	9	52	471	10.14	2	5	ND	1	18	1.3	5	2	75	.56	.103	10	26	.69	100	.23	2	1.45	.03	.21	1	8	20	16
35271	2	368	7	58	.4	13	47	640	9.04	2	5	ND	1	17	2.6	6	2	108	.97	.124	11	30	1.00	132	.25	4	2.21	.03	.30	1	4	5	15
35272	1	131	2	74	.2	6	16	539	4.98	4	5	ND	1	50	1.8	3	2	90	1.62	.124	10	15	.85	96	.22	4	2.16	.07	.20	1	8	559	12
35273	1	35	2	26	.1	5	11	438	3.57	3	5	ND	1	29	1.9	2	2	56	2.50	.086	7	8	.41	18	.07	6	2.33	.03	.05	3	2	4	12
35274	1	103	2	63	.1	6	20	1383	8.08	2	5	ND	1	33	1.6	6	2	70	6.46	.067	7	17	.99	11	.01	8	1.77	.01	.05	1	2	2	14
35275	1	50	15	45	.1	5	16	1208	6.35	3	5	ND	1	26	2.2	2	2	61	1.64	.073	8	9	.40	24	.02	7	1.19	.02	.04	1	2	5	16
35276	2	332	6	74	.4	24	46	1144	12.41	17	5	ND	1	34	1.6	5	4	82	2.57	.134	12	29	.71	52	.11	8	1.74	.03	.13	1	2	697	12
35277	1	184	3	105	.3	41	43	1584	13.28	2	5	ND	1	30	.2	8	3	75	5.98	.093	9	30	.82	18	.06	7	1.74	.02	.04	1	2	55	13
35278	1	124	2	55	.1	18	26	1158	7.44	2	5	ND	1	36	1.5	4	2	60	4.95	.118	10	21	.76	41	.07	2	1.49	.02	.32	1	2	1	12
35279	111	729	2	64	1.0	14	208	1088	28.07	17	5	ND	1	6	4.0	9	2	82	.45	.120	49	49	.77	8	.04	2	2.20	.01	.02	1	2	319	13
35280	56	717	12	49	.8	19	141	716	17.52	143	5	ND	1	9	.9	7	4	77	.70	.123	23	43	.66	12	.09	6	2.15	.02	.03	1	5	322	12
35281	40	563	2	38	.4	14	86	689	10.63	47	5	ND	1	31	1.4	4	3	55	1.35	.124	38	28	.47	18	.09	3	2.07	.03	.05	1	2	123	13
35282	26	568	10	48	.5	20	102	1356	13.37	245	5	ND	1	26	.7	4	2	56	2.81	.098	23	32	.58	17	.04	8	2.03	.02	.03	1	7	281	13
35283	2	52	3	30	.1	6	13	381	4.38	6	5	ND	1	24	1.5	2	2	66	1.65	.097	6	7	.62	21	.12	10	2.02	.04	.05	1	2	11	14
35284	2	73	4	35	.1	9	27	576	4.81	13	5	ND	1	49	1.4	2	2	67	1.81	.099	6	9	.53	23	.11	5	2.03	.05	.04	1	2	18	13
35285	3	90	4	25	.1	5	14	394	3.36	3	5	ND	1	30	1.5	2	2	49	1.43	.100	9	9	.53	21	.10	4	1.72	.06	.06	1	4	1	13
35286	1	32	2	26	.1	1	9	482	3.70	6	5	ND	1	35	1.6	2	2	49	2.71	.091	5	9	.65	19	.09	7	1.75	.04	.05	1	3	16	12
35287	1	168	9	81	.3	15	28	879	9.32	2	5	ND	1	50	1.9	4	2	188	1.66	.086	5	28	1.15	45	.24	5	2.84	.08	.05	1	7	18	11
35319 pit	1	76	5	41	.1	14	21	1079	5.99	3	5	ND	1	24	1.6	3	2	49	3.36	.059	9	10	.39	16	.02	4	1.12	.02	.04	1	2	2	13
STANDARD C/AU-R	21	63	35	140	7.5	69	30	1052	3.96	42	18	8	39	52	17.5	16	22	56	.48	.089	42	60	.88	181	.09	39	1.96	.06	.13	12	2	496	-

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: AUG 10 1990

DATE REPORT MAILED: Aug. 14/90

ASSAY CERTIFICATE

Homestake Mining (Canada) Ltd. PROJECT 3132 FILE # 90-2565R
1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Au** oz/t
31860	.028
35261	.024
35272	.019
35276	.018

AU** BY FIRE ASSAY FROM 1 A.T.
- SAMPLE TYPE: Rock Pulp

SIGNED BY............ D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 9 1990
DATE REPORT MAILED: Nov. 15/90.

ASSAY CERTIFICATE

Homestake International Minerals PROJECT 3132 FILE # 90-2565R2

SAMPLE#	Cu %
31860	.13
35261	.14
35272	.03
35276	.03

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP

SIGNED BY.......... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD. [illegible] E. HASTINGS ST. VANCOUVER B.C. V6A [illegible] PHONE([illegible])25[illegible]158 FAX(60[illegible])253-[illegible]

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake International Minerals PROJECT 3132 File # 90-2566 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 0+25S 0+00	1	55	4	221	.6	71	29	998	8.25	25	5	ND	1	21	2.9	2	2	130	.43	.130	7	95	1.36	53	.46	3	2.83	.02	.07	1	2	29
RP 0+75S 0+00	1	69	18	174	.7	63	30	818	8.11	22	6	ND	1	27	1.9	2	2	111	.61	.074	8	74	1.07	51	.45	3	3.02	.03	.08	1	2	7
RP 2+50S 2+00W	1	210	9	91	.2	44	21	870	6.14	16	8	ND	1	54	1.7	2	2	98	1.43	.079	18	57	1.21	111	.35	5	3.16	.06	.05	1	2	10
RP 2+50S 1+80W	1	113	14	96	.2	52	27	1048	6.41	15	5	ND	1	62	.7	2	2	121	1.09	.074	6	82	1.97	80	.17	7	3.84	.03	.05	1	3	32
RP 2+50S 1+60W	1	75	2	116	.2	59	28	1082	7.28	16	5	ND	2	32	3.3	2	4	104	.72	.120	12	64	1.35	75	.45	6	4.03	.05	.06	1	2	10
RP 2+50S 1+40W	1	87	11	147	.5	65	31	2123	6.50	5	5	ND	1	38	.7	2	2	113	1.20	.067	5	81	1.31	107	.19	6	3.05	.03	.18	1	2	19
RP 2+50S 1+20W	1	78	20	166	.4	51	28	1108	6.54	12	5	ND	1	43	2.0	2	2	120	.99	.093	5	65	1.33	89	.21	6	3.19	.03	.14	1	2	36
RP 2+50S 1+00W	1	63	13	189	.6	42	39	1847	7.51	12	5	ND	1	32	3.5	2	6	123	.78	.077	7	57	1.01	79	.33	9	2.57	.02	.14	1	4	20
RP 2+50S 0+80W	1	80	3	230	.1	21	33	1712	7.71	8	5	ND	1	32	2.1	2	2	106	1.01	.164	7	31	.75	74	.22	10	2.60	.02	.19	1	2	24
RP 2+50S 0+60W	1	112	21	275	.3	24	42	3003	8.52	22	5	ND	1	25	2.3	2	2	111	.85	.114	7	36	.79	66	.30	11	2.67	.02	.19	1	2	336
RP 3+00S 1+40E	2	516	8	72	.5	79	48	901	8.47	37	5	ND	1	49	3.8	2	2	131	1.28	.051	4	91	1.78	68	.13	8	5.18	.03	.06	1	2	23
RP 3+00S 1+60E	1	117	17	151	.5	99	43	1643	8.17	23	5	ND	1	28	1.9	2	3	131	.80	.074	8	180	1.90	68	.21	5	3.98	.02	.06	1	2	9
RP 3+00S 2+00E	1	140	2	95	.2	52	16	551	4.31	6	5	ND	1	57	.3	2	2	88	1.77	.091	6	62	1.63	66	.16	5	2.55	.03	.05	1	2	6
RP 3+00S 2+20E	1	67	14	210	.4	87	28	690	7.21	7	5	ND	1	32	2.5	2	2	134	.67	.075	6	111	2.12	48	.33	3	4.04	.02	.05	1	2	12
RP 3+00S 2+40E	2	94	15	227	.3	59	31	1334	7.43	15	5	ND	1	41	2.4	2	2	153	.63	.115	5	75	1.71	52	.16	8	4.18	.02	.05	1	2	12
RP 3+00S 2+60E	1	89	10	110	.3	60	26	936	6.16	7	5	ND	1	46	1.6	2	2	134	1.04	.155	4	67	1.97	34	.16	6	3.49	.02	.06	1	2	9
RP 3+00S 2+80E	1	141	18	126	.4	79	30	973	7.06	19	5	ND	1	51	1.5	2	2	149	.84	.099	5	94	2.38	55	.22	7	4.15	.02	.08	1	2	9
RP 3+00S 3+00E	1	72	2	162	.4	50	25	978	8.63	14	5	ND	1	33	3.3	2	2	179	.63	.154	6	111	1.76	56	.31	2	3.19	.02	.07	1	2	43
RP 3+00S 3+20E	1	122	10	284	.4	39	33	1448	8.77	16	5	ND	1	61	4.2	2	2	213	.86	.078	5	71	1.55	55	.22	8	3.72	.02	.09	1	2	13
RP 3+00S 3+40E	5	103	45	488	.7	38	39	1647	7.57	28	5	ND	1	44	9.1	2	2	143	1.18	.112	8	47	1.06	54	.34	8	2.38	.03	.10	1	2	14
RP 3+00S 3+60E	2	285	22	175	.4	54	30	749	7.32	29	5	ND	1	43	2.0	2	2	138	.64	.045	5	66	1.86	51	.26	8	4.17	.02	.09	2	2	56
RP 3+00S 3+80E	1	201	19	235	.9	45	35	752	7.85	36	5	ND	1	38	2.6	2	5	170	.74	.057	5	61	1.40	78	.23	7	4.03	.02	.07	1	2	15
RP 3+00S 4+00E	3	219	27	404	.9	29	36	802	10.80	45	5	ND	1	24	4.4	2	8	231	.64	.275	7	35	1.03	47	.20	7	3.54	.02	.06	1	2	57
RP 3+00S 4+20E	1	69	16	524	.9	33	43	2134	8.06	25	5	ND	1	26	3.3	2	2	155	.58	.132	6	60	1.12	104	.25	6	2.87	.02	.13	1	2	12
RP 3+00S 4+40E	1	85	6	147	.5	45	26	698	7.17	36	5	ND	1	35	2.4	2	2	156	.61	.047	3	68	2.16	62	.24	9	4.24	.03	.10	1	2	17
RP 3+00S 4+60E	1	74	12	273	.6	42	27	973	7.47	34	5	ND	1	32	1.5	2	4	152	.61	.096	4	74	1.70	84	.24	8	3.61	.02	.13	1	2	1
RP 3+00S 4+80E	1	72	12	258	.7	48	23	828	7.61	29	5	ND	1	34	2.7	2	2	133	.54	.097	6	77	1.67	82	.31	7	3.63	.03	.10	1	2	1
RP 3+00S 5+00E	1	77	14	266	.3	48	24	1256	7.33	31	5	ND	1	38	2.3	2	3	141	.67	.112	5	84	1.87	116	.22	3	3.56	.03	.13	1	2	10
RP 3+25S BL 0+00	1	113	3	160	.5	44	39	1593	7.52	14	5	ND	1	35	2.8	2	2	123	.96	.082	5	57	1.29	69	.22	8	3.07	.02	.28	1	2	31
RP 3+50S 2+00W	1	205	4	72	.2	54	19	699	4.83	9	5	ND	1	65	1.7	2	3	91	2.03	.098	7	62	1.76	95	.14	10	3.14	.03	.08	1	2	18
RP 3+50S 1+80W	1	173	13	102	.4	50	25	974	5.99	15	5	ND	1	59	1.3	2	2	119	1.38	.073	10	70	1.74	102	.17	6	3.54	.03	.06	1	2	4
RP 3+50S 1+60W	1	200	5	78	.1	51	24	827	6.03	15	5	ND	1	68	1.8	2	2	127	1.32	.045	6	65	2.11	75	.17	6	3.87	.03	.07	1	3	16
RP 3+50S 1+40W	1	171	16	87	.1	51	26	978	6.17	18	5	ND	1	70	2.3	2	2	124	1.24	.068	7	76	1.96	81	.16	4	3.88	.03	.08	1	2	19
RP 3+50S 1+20W	1	181	8	76	.1	30	25	739	5.72	4	5	ND	1	109	1.4	2	2	136	2.21	.096	5	37	1.74	60	.11	11	3.85	.05	.06	1	2	31
RP 3+50S 1+00W	1	139	2	73	.1	26	24	793	6.31	6	5	ND	1	110	1.4	2	2	176	2.01	.114	5	30	1.56	50	.12	11	3.47	.04	.04	1	2	12
RP 3+50S 0+80W	1	109	16	82	.3	48	22	858	6.07	11	5	ND	1	54	1.9	2	2	106	1.28	.080	10	69	1.44	74	.25	4	3.62	.03	.06	1	4	12
STANDARD C/AU-S	18	61	36	132	7.0	71	30	1053	4.06	42	22	8	36	52	18.7	15	19	56	.55	.097	37	60	.94	179	.07	39	2.03	.06	.14	11	2	54

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Soil -80 Mesh AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 17 1990 DATE REPORT MAILED: July 20/90 SIGNED BY C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Homestake International Minerals PROJECT 3132 FILE # 90-2566

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 3+50S 0+60W	1	144	14	86	.2	58	25	975	6.73	17	5	ND	1	75	1.9	2	3	135	1.23	.060	7	90	2.16	83	.18	7	4.09	.05	.07	1	2	32
RP 3+50S 0+40W	1	87	16	168	.5	37	26	1331	6.53	8	5	ND	1	38	2.5	2	2	121	1.06	.168	6	52	1.39	79	.20	5	3.04	.03	.18	1	2	16
RP 3+50S 0+20W	1	128	11	315	.6	47	38	3534	5.96	6	5	ND	1	53	2.9	2	3	91	1.56	.149	7	48	1.12	197	.15	8	2.79	.02	.21	1	2	7
RP 3+50S BL 0+00	1	175	3	285	.4	52	43	5010	5.80	6	5	ND	1	56	4.0	2	3	101	1.80	.126	7	43	.81	181	.13	6	2.50	.02	.19	1	2	2
RP 3+50S 0+20E	1	185	24	98	.4	74	35	1597	7.40	16	5	ND	1	33	2.2	2	2	115	1.01	.070	6	79	1.61	78	.26	12	3.27	.03	.21	1	2	37
RP 3+50S 0+40E	1	365	6	118	.4	123	46	1550	7.24	17	5	ND	1	44	2.6	2	2	115	1.29	.066	4	94	2.08	69	.19	5	3.70	.03	.24	1	2	15
RP 3+50S 1+40E	1	99	19	147	.4	63	29	1348	7.47	11	5	ND	1	47	2.8	2	2	140	1.02	.066	4	100	1.73	58	.19	6	4.11	.02	.08	1	2	8
RP 3+50S 1+60E	1	134	2	152	.3	104	29	1733	6.04	11	5	ND	1	39	1.9	2	4	118	1.47	.091	4	140	2.18	61	.11	8	3.11	.02	.13	1	2	6
RP 3+75S BL 0+00	1	111	19	224	.2	57	37	1234	8.06	10	5	ND	1	26	3.7	2	2	116	.66	.097	10	66	1.21	38	.34	2	3.19	.03	.11	1	2	13
RP 4+00S 0+40E	1	84	15	133	.7	49	33	2312	6.50	12	5	ND	1	46	2.9	2	4	111	1.04	.117	7	65	1.32	112	.21	3	3.03	.03	.14	1	4	10
RP 4+00S 0+60E	1	124	14	95	.2	81	37	964	6.98	11	5	ND	1	37	2.7	2	2	118	1.09	.086	7	102	1.88	39	.23	8	3.47	.03	.19	1	2	158
RP 4+00S 0+80E	1	114	7	177	.4	60	39	2393	7.42	6	5	ND	1	34	3.2	2	2	128	.88	.148	7	84	1.59	83	.26	8	3.57	.03	.26	1	2	24
RP 4+00S 1+00E	1	151	5	87	.3	95	47	1515	8.98	50	5	ND	1	29	3.4	2	2	139	.99	.069	3	146	2.41	55	.16	7	3.83	.02	.37	1	2	32
RP 4+00S 1+20E	1	147	7	190	.4	63	40	1583	7.37	12	5	ND	1	34	3.1	2	3	125	.94	.084	6	98	1.75	82	.22	5	3.41	.03	.21	1	2	9
RP 4+00S 1+40E	1	101	9	176	.2	80	27	1309	6.35	11	5	ND	1	44	2.2	2	2	121	1.13	.068	6	98	1.77	54	.17	7	3.69	.03	.22	1	2	39
RP 4+00S 1+60E	1	131	9	88	.2	108	32	1049	6.29	18	5	ND	1	37	1.4	2	3	140	1.53	.060	3	204	2.51	40	.06	7	3.29	.02	.11	1	2	16
RP 4+00S 2+40E	1	156	15	171	.2	61	20	827	6.47	13	5	ND	1	46	1.5	2	3	144	.92	.045	7	72	1.52	48	.21	8	3.22	.02	.09	1	2	19
RP 4+00S 2+60E	3	193	21	151	.3	65	23	1193	7.34	10	5	ND	1	36	3.2	2	4	137	.64	.093	8	104	1.73	56	.36	2	3.02	.03	.07	1	2	13
RP 4+00S 2+80E	2	132	9	117	.1	38	17	551	6.62	8	5	ND	1	45	2.1	2	2	129	.71	.046	6	49	1.13	34	.25	4	3.01	.02	.08	1	2	34
RP 4+00S 3+00E	2	79	13	317	.4	28	22	1397	6.41	11	5	ND	1	58	2.7	2	2	115	1.03	.133	6	41	.96	68	.14	9	2.97	.02	.15	1	2	30
RP 4+00S 3+20E	1	148	6	182	.2	28	19	857	6.82	13	5	ND	1	72	2.5	2	2	123	.90	.101	6	39	1.08	46	.16	5	3.14	.02	.09	1	2	63
RP 4+00S 3+40E	3	97	4	484	.3	23	24	2057	7.08	6	5	ND	1	53	4.8	2	4	141	.87	.056	8	36	.82	57	.26	7	2.71	.02	.12	1	2	193
RP 4+00S 3+60E	2	192	9	312	.6	41	21	662	6.57	10	5	ND	1	50	2.5	2	6	113	.61	.036	7	46	1.23	56	.27	8	3.95	.03	.13	1	2	28
RP 4+00S 3+80E	2	108	10	217	.4	23	17	855	6.32	9	5	ND	1	57	1.0	2	2	111	.93	.055	6	33	.98	39	.17	5	3.31	.02	.13	1	2	5
RP 4+00S 4+00E	2	93	15	172	.3	17	22	1259	6.16	5	5	ND	1	68	2.2	2	8	134	1.18	.055	6	29	.97	50	.16	3	3.14	.02	.13	1	2	32
RP 4+00S 4+20E	2	76	13	272	.3	22	18	625	6.61	7	5	ND	1	53	2.9	2	2	142	.84	.052	6	36	.95	39	.26	2	3.39	.02	.13	1	2	37
RP 4+00S 4+40E	1	118	8	176	.4	30	21	562	7.39	21	5	ND	1	66	1.6	2	2	197	.92	.033	4	45	1.40	34	.21	6	4.06	.02	.12	1	2	21
RP 4+00S 4+60E	1	116	13	141	.2	30	21	618	7.44	14	5	ND	1	61	3.8	2	2	184	.86	.052	6	49	1.41	43	.28	6	3.76	.02	.10	2	2	11
RP 4+00S 4+80E	1	90	9	179	.4	27	24	1209	7.89	45	5	ND	1	51	3.5	2	2	187	.73	.077	6	41	1.15	67	.26	4	3.09	.03	.11	1	2	20
RP 4+00S 5+00E	1	66	6	199	.1	44	24	868	6.63	25	5	ND	1	40	2.3	2	2	121	.77	.085	6	60	1.42	60	.31	7	3.36	.04	.17	1	2	11
RP 4+25S BL 0+00	1	170	11	80	.1	28	25	754	6.69	16	5	ND	1	124	2.4	2	2	189	2.05	.099	5	33	1.70	54	.13	6	4.03	.05	.04	1	2	13
RP 4+50S 2+00W	1	162	3	126	.1	48	20	881	5.66	6	5	ND	1	46	2.1	2	2	101	1.48	.070	7	53	1.76	67	.24	9	3.21	.04	.10	1	2	9
RP 4+50S 1+80W	1	100	4	60	.1	66	18	638	5.44	9	5	ND	1	44	1.8	2	2	110	1.00	.074	5	81	2.34	58	.22	9	3.27	.04	.12	1	2	19
RP 4+50S 1+60W	1	128	18	76	.1	58	21	701	5.57	9	5	ND	1	52	1.5	2	2	108	1.10	.091	6	69	1.84	71	.19	2	3.34	.03	.10	1	2	10
RP 4+50S 1+40W	1	150	7	80	.1	55	21	749	7.31	15	5	ND	2	34	3.5	2	2	109	.73	.079	13	67	1.49	64	.43	4	3.94	.04	.08	1	2	13
RP 4+50S 1+20W	1	115	17	87	.1	53	21	773	6.36	13	5	ND	1	52	1.7	2	2	123	.86	.087	4	79	1.88	90	.17	7	4.04	.03	.09	1	2	10
RP 4+50S 1+00W	1	116	3	69	.1	55	21	666	5.93	11	5	ND	1	57	1.8	2	2	124	.96	.063	3	82	1.89	60	.17	3	3.96	.03	.09	1	2	15
STANDARD C/AU-S	18	60	41	132	7.3	71	29	1045	4.23	40	21	7	36	52	18.4	16	22	56	.55	.095	37	61	.94	179	.07	39	2.00	.06	.14	11	2	49

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 4+50S 0+80W	1	142	17	70	.1	48	21	1028	4.75	3	5	ND	1	52	.5	2	2	95	1.26	.103	7	65	1.45	67	.17	3	3.05	.03	.08	1	2	21
RP 4+50S 0+60W	1	276	16	81	.4	42	19	1097	5.28	2	5	ND	1	45	2.9	2	2	86	1.33	.103	14	57	.95	75	.26	2	3.12	.04	.04	2	2	7
RP 4+50S 0+20W	1	153	30	74	.1	40	26	1082	5.66	10	5	ND	1	74	2.1	2	4	125	1.22	.087	8	57	1.73	83	.13	2	3.59	.03	.06	2	2	19
RP-3-3 P-1	2	340	12	117	.1	29	21	1110	7.48	24	5	ND	1	62	2.8	2	2	135	1.61	.148	6	24	1.30	61	.14	2	3.15	.05	.09	1	2	12
RP-3-3 P-2	1	248	16	69	.1	45	21	716	4.69	4	5	ND	1	97	.6	2	2	106	1.96	.116	4	66	1.63	26	.10	4	2.81	.04	.06	1	2	20
RP-04-2 A-1-1	1	111	24	183	.1	112	27	1108	5.91	11	5	ND	1	41	2.3	2	2	107	.76	.051	4	103	2.85	120	.17	3	3.80	.03	.11	1	2	7
RP-04-2 A-1-2	1	91	15	140	.1	70	20	737	5.98	18	5	ND	1	31	1.0	2	2	118	.54	.104	5	79	1.98	102	.18	4	3.55	.03	.09	2	2	4
RP-04-2 A-1-3	1	67	15	165	.4	37	20	762	6.91	32	5	ND	1	25	1.1	2	2	134	.43	.123	5	61	1.20	94	.16	5	3.27	.02	.08	1	2	4
RP-04-2 A-1A-2	1	239	10	312	.6	87	40	781	8.00	18	5	ND	1	123	3.3	2	2	129	.75	.047	5	81	1.54	74	.19	2	4.88	.03	.07	1	2	45
RP-04-2 A-1A-3	1	124	8	121	.1	86	24	829	5.56	25	5	ND	1	46	2.2	2	2	110	.87	.047	4	85	2.25	75	.16	2	3.49	.04	.09	1	2	36
RP-04-2 A-1A-4	1	92	10	86	.2	103	24	841	5.38	18	5	ND	1	38	.8	2	3	104	1.00	.049	4	97	2.59	90	.15	5	3.58	.02	.07	1	2	7
RP-04-2 A-2-1	1	90	12	136	.1	45	19	914	6.16	23	5	ND	1	34	.3	2	5	129	.70	.098	4	67	1.52	118	.12	5	3.59	.02	.15	1	2	3
RP-04-2 A-2-2	1	175	17	145	.1	49	19	915	6.43	23	5	ND	1	40	2.4	2	2	137	.63	.056	6	80	1.60	141	.12	4	4.00	.02	.09	1	2	1
RP-04-2 A-2-3	1	71	17	148	.1	49	18	564	6.32	21	5	ND	1	33	.5	2	2	120	.59	.089	7	71	1.40	78	.24	4	3.08	.03	.08	1	2	7
RP-04-2 A-2-4	1	94	23	107	.1	53	25	1007	5.56	28	5	ND	1	33	1.5	2	2	111	.64	.102	7	77	1.54	98	.14	9	3.99	.03	.10	1	2	7
RP-04-2 A-2-5	1	85	7	185	.2	55	22	1023	6.78	19	5	ND	1	27	3.2	2	2	112	.48	.123	8	76	1.46	94	.22	2	3.15	.02	.07	1	2	4
RP-04-2 A-2-6	1	144	13	100	.2	68	27	799	6.23	40	5	ND	1	46	1.6	2	2	131	.69	.049	3	83	1.98	55	.17	2	3.97	.03	.12	1	2	10
RP-04-2 A-2-7	1	120	14	127	.1	76	27	765	6.66	19	5	ND	1	27	1.2	2	2	129	.51	.116	4	98	2.12	109	.17	6	4.63	.02	.10	2	2	2
RP-04-2 A-2-8	1	124	8	76	.1	101	25	526	5.40	6	5	ND	1	39	1.7	2	3	106	.77	.112	3	85	2.62	58	.15	2	3.52	.05	.08	1	2	70
RP-04-2 A-1A-1	1	152	16	80	.1	80	26	771	6.14	19	5	ND	1	55	1.2	2	3	123	.85	.064	4	99	2.40	81	.16	3	4.05	.03	.13	1	2	3
RP-04-2 A-3-1	3	46	17	113	.3	29	14	475	6.89	13	5	ND	1	22	2.7	2	2	121	.33	.042	7	59	.84	80	.33	2	3.48	.02	.05	2	2	4
RP-04-2 A-3-2	1	237	20	140	.1	76	22	915	6.88	23	5	ND	1	49	2.5	2	2	121	.89	.068	9	81	1.83	178	.22	5	4.48	.03	.11	1	2	4
RP-04-2 A-3-3	1	86	11	183	.1	57	19	872	5.80	20	5	ND	1	38	1.2	3	2	121	.75	.050	4	85	1.83	128	.15	7	3.43	.03	.10	1	2	7
RP-04-2 A-3-4	1	85	15	158	.2	63	19	735	6.18	18	5	ND	1	35	2.3	2	2	119	.67	.117	3	94	2.00	76	.16	5	3.41	.03	.09	1	2	7
RP-04-2 A-3-5	1	93	15	157	.1	64	22	983	6.00	30	5	ND	1	39	1.0	2	2	126	.73	.073	3	98	2.01	82	.13	2	3.22	.03	.11	1	3	27
RP-04-2 A-3-6	1	406	25	191	.1	56	23	677	7.56	22	5	ND	1	27	3.2	2	2	147	.40	.049	7	73	1.50	51	.21	2	4.59	.02	.07	1	2	8
RP-04-2 A-3-7	1	97	7	89	.1	52	22	643	5.62	16	5	ND	1	52	1.4	2	2	105	.93	.053	5	58	1.40	85	.17	3	3.77	.02	.14	1	2	33
RP-04-2 A-3-8	1	212	9	119	.2	66	23	1046	5.38	15	5	ND	1	47	1.3	2	2	108	.94	.072	5	89	1.89	85	.16	2	3.05	.03	.15	1	2	14
RP-04-2 A-4-1	1	99	18	93	.1	49	20	633	5.83	20	5	ND	1	33	1.6	2	2	118	.48	.073	6	74	1.61	141	.12	7	4.27	.02	.07	2	2	4
RP-04-2 A-4-2	1	62	5	160	.3	32	17	674	6.77	10	5	ND	1	21	1.9	2	2	104	.33	.084	10	68	.90	91	.34	2	3.55	.02	.06	1	2	1
RP-04-2 A-4-3	1	88	10	115	.1	59	21	883	5.89	25	5	ND	1	37	.8	3	2	122	.49	.076	4	85	1.80	90	.18	4	3.43	.03	.07	2	2	3
RP-04-2 A-4-4	1	120	14	100	.1	66	25	978	5.73	38	5	ND	1	39	1.4	2	2	115	.77	.088	5	83	1.70	107	.11	3	3.67	.03	.12	1	2	4
RP-04-2 A-4-5	1	160	19	117	.1	56	24	1150	5.58	21	5	ND	1	39	.5	2	2	111	.88	.092	7	84	1.70	140	.16	3	3.71	.04	.10	1	2	3
RP-04-2 A-4-6	1	134	18	101	.1	55	20	629	6.21	35	5	ND	1	31	2.2	2	2	125	.47	.055	4	84	1.68	83	.18	2	4.27	.02	.10	1	2	9
RP-04-2 A-4-7	1	59	4	80	.1	40	17	608	4.77	12	5	ND	1	43	1.1	2	2	101	.97	.040	6	54	1.39	94	.15	5	3.11	.02	.10	1	2	5
RP-04-2 A-4-8	1	131	17	72	.1	42	24	1042	5.64	9	5	ND	1	64	1.3	2	2	118	1.14	.066	10	61	1.68	117	.14	4	3.43	.03	.07	1	2	15
STANDARD C/AU-S	19	60	38	132	7.3	73	29	1044	4.22	37	20	7	37	52	18.4	14	18	55	.55	.099	37	61	.95	179	.07	34	2.02	.06	.14	11	2	52

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-04-2 A'S L-1-4	1	134	9	103	.1	61	27	869	6.30	23	5	ND	1	41	1.5	2	2	128	.80	.085	5	91	1.83	120	.11	7	3.91	.03	.11	1	2	8
RP-6-2 T-1-1	1	133	5	98	.1	168	39	1114	6.64	2	5	ND	1	18	4.5	2	2	131	1.49	.159	4	328	5.57	63	.17	2	4.42	.01	.29	1	2	3
RP-6-2 T-1-5	2	76	6	98	.4	64	20	537	6.16	9	5	ND	1	25	1.9	2	2	115	.49	.066	7	113	1.39	61	.21	2	3.29	.02	.06	1	2	8
RP-6-2 T-1-6	1	63	14	103	.1	33	19	564	8.22	24	5	ND	1	22	1.5	2	2	185	.29	.088	4	63	1.00	75	.24	4	2.92	.02	.06	1	3	134
RP-6-2 T-1-8	3	97	146	281	.7	21	16	618	5.47	15	5	ND	1	31	2.7	2	2	138	.36	.057	10	48	.54	76	.28	4	2.45	.02	.05	2	2	11
RP-6-2 T-1-11	3	265	17	136	.2	36	23	783	5.89	8	5	ND	1	56	1.4	2	2	118	.94	.097	13	55	1.11	108	.22	7	3.41	.03	.06	1	2	16
RP-6-2 T-1-13	1	176	11	82	.1	14	26	582	6.01	4	5	ND	1	68	2.2	2	2	169	1.11	.100	7	19	.84	48	.11	2	3.93	.02	.03	1	2	23
RP-6-2 T2-1	1	307	13	490	1.9	52	22	1170	6.73	115	5	ND	1	29	3.9	2	2	135	.71	.085	11	75	1.10	100	.34	3	3.70	.03	.06	1	2	5
RP-6-2 T2-3	1	73	10	142	.1	43	19	687	6.41	18	5	ND	1	23	2.3	2	2	121	.32	.088	5	71	1.32	82	.25	2	3.41	.02	.06	1	2	6
RP-6-2 T2-4	1	109	16	107	.1	62	21	726	6.67	17	5	ND	1	21	2.6	2	2	117	.35	.078	6	84	1.52	79	.24	2	3.77	.02	.07	1	2	7
RP-6-2 T2-6	1	124	13	116	.2	39	21	519	6.39	5	5	ND	1	30	.9	2	2	141	.50	.066	5	47	.96	58	.24	2	3.35	.02	.06	1	2	16
RP-6-2 T2-7	1	96	15	142	.1	37	21	676	6.27	12	5	ND	1	40	2.0	2	2	130	.58	.111	5	57	1.07	88	.17	2	3.00	.02	.07	2	2	66
RP-6-2 T2-10	2	201	31	121	.1	52	25	620	6.81	8	5	ND	1	33	2.7	2	2	106	.47	.092	12	97	1.05	68	.33	3	4.25	.03	.04	2	2	10
RP-6-2 T2-11	2	30	24	118	.2	18	15	484	7.98	2	5	ND	3	15	3.4	2	2	117	.23	.075	13	49	.46	42	.67	4	3.78	.02	.04	1	2	5
RP-6-3 T-1-2	1	203	8	262	.3	53	23	1571	5.26	16	5	ND	1	62	2.3	2	2	93	1.80	.120	12	65	1.24	97	.14	4	2.90	.03	.07	1	2	7
RP-6-3 T-1-3	4	170	15	254	.1	58	21	446	5.21	17	5	ND	1	40	2.4	2	2	127	1.14	.121	16	73	1.12	118	.24	4	3.78	.03	.07	1	2	8
RP-6-3 T-1-4	1	177	7	134	.1	59	18	621	4.51	6	5	ND	1	39	2.1	2	2	87	1.28	.087	13	64	1.20	87	.23	2	2.54	.04	.08	1	2	13
RP-6-3 T-1-7	1	568	11	156	.7	37	57	881	2.35	9	5	ND	1	32	.9	2	2	39	1.41	.106	26	21	.41	33	.10	6	1.85	.02	.07	1	2	18
RP-6-3 T-1-9	1	201	22	173	.1	71	24	560	4.41	6	5	ND	1	70	1.9	2	2	103	1.28	.097	7	131	1.30	73	.10	3	2.62	.02	.05	1	2	14
RP-6-3 T-1-10	2	295	15	123	.1	61	24	754	4.40	6	5	ND	1	80	1.3	2	2	82	1.22	.101	10	116	1.26	90	.13	7	3.15	.03	.06	1	2	15
RP-6-3 T-1-12	2	640	8	124	.1	39	16	656	4.43	3	5	ND	1	71	2.0	2	2	76	1.20	.109	15	49	.77	117	.18	4	4.22	.03	.05	1	2	10
RP-6-3 T-1-14	1	513	10	85	.3	18	21	641	3.38	2	5	ND	1	87	.8	2	2	71	1.52	.140	15	28	.52	98	.11	2	3.69	.03	.04	2	2	17
RP-6-3 T2-2	3	182	22	200	.1	59	20	1231	6.14	23	5	ND	1	52	2.6	2	2	105	1.39	.107	12	72	1.28	89	.11	2	3.03	.03	.06	1	2	19
RP-6-3 T2-5	1	244	10	145	.1	83	24	596	4.87	6	5	ND	1	49	1.1	2	2	98	1.42	.102	13	82	1.58	102	.17	2	3.22	.03	.09	1	2	18
RP-6-3 T2-8	1	194	13	150	.1	86	27	619	5.26	8	5	ND	1	71	2.0	3	2	129	1.11	.098	7	158	1.51	80	.13	3	2.79	.02	.05	1	4	25
RP-6-3 T2-9	1	198	19	93	.1	138	23	499	4.51	2	5	ND	1	61	1.6	2	2	92	1.07	.083	6	309	2.05	96	.15	3	3.15	.02	.04	1	2	10
RP-07-2 PS-1	1	171	7	104	.1	46	19	793	5.80	7	5	ND	1	42	1.0	2	2	111	1.05	.121	11	72	1.52	162	.20	4	2.99	.03	.22	2	2	25
RP-07-2 PS-2A	2	85	14	119	.1	37	20	1818	4.42	8	5	ND	1	64	1.2	2	2	82	1.48	.107	8	57	1.14	183	.08	3	2.78	.03	.07	1	2	1
RP-07-2 PS-3	1	86	10	91	.1	40	22	997	6.02	20	5	ND	1	34	1.6	2	2	118	.61	.141	6	60	1.21	110	.13	3	3.09	.02	.07	1	2	8
RP-07-2 PS-4	1	476	13	181	.6	56	19	1060	5.47	24	5	ND	1	50	2.2	2	2	116	1.47	.070	8	73	1.53	131	.12	3	3.53	.03	.09	1	2	11
RP-07-2 PS-5	1	118	21	167	.7	62	23	685	6.69	21	5	ND	1	31	2.2	2	2	130	.40	.066	4	90	1.92	101	.17	5	4.84	.02	.09	1	2	272
RP-07-2 PS-6	1	68	2	68	.1	42	14	421	4.07	8	5	ND	1	42	.3	2	2	81	.78	.101	7	66	1.38	134	.15	5	3.11	.03	.10	2	2	53
RP-07-2 PS-7	1	85	19	139	.1	48	21	798	6.33	11	5	ND	2	33	2.5	2	2	105	.68	.104	15	59	1.27	121	.36	3	2.78	.04	.08	2	2	2
RP-07-2 PS-8	2	84	6	152	.4	46	19	465	7.82	15	5	ND	3	17	3.7	3	2	106	.37	.098	15	55	.63	111	.51	2	3.82	.03	.06	2	2	7
RP-07-2 PS-9	1	73	11	116	.2	45	18	508	5.72	10	5	ND	1	33	1.1	2	3	104	.53	.075	9	65	1.11	140	.21	3	3.27	.02	.07	1	2	1
RP-07-2 PS-10	1	131	9	127	.2	45	18	761	5.74	17	5	ND	1	42	2.2	2	2	88	.87	.092	14	50	.95	171	.27	2	2.97	.04	.06	1	2	4
STANDARD C/AU-S	18	59	42	132	7.2	69	31	1031	4.16	38	18	6	36	52	18.8	16	21	55	.54	.095	36	58	.93	178	.07	38	2.01	.06	.14	11	2	50

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-07-2 PS-11	3	85	29	300	.8	35	20	1105	7.04	6	5	ND	1	24	3.6	2	2	101	.68	.102	16	52	.68	133	.34	4	3.62	.03	.07	1	2	4
RP-07-2 PS-12	1	71	9	170	.6	38	17	573	7.22	10	5	ND	2	19	1.5	2	2	117	.35	.139	11	61	.94	94	.41	8	4.19	.03	.09	1	2	2
RP-07-2 PS-13	1	85	19	175	.4	44	26	2597	7.10	11	5	ND	1	38	1.5	2	2	145	.78	.161	6	69	1.28	180	.16	2	4.27	.03	.09	1	2	5
RP-07-2 PS-14	1	85	21	142	.3	46	18	745	6.99	21	5	ND	1	35	2.7	2	2	145	.75	.090	5	74	1.52	98	.17	10	3.49	.03	.08	1	2	10
RP-07-2 PS-15	1	81	9	132	.1	58	28	1385	6.71	11	5	ND	1	46	1.8	2	2	100	.86	.107	15	68	1.35	154	.23	4	4.56	.04	.12	1	2	7
RP-07-3 P-1	1	86	3	126	.1	75	26	1636	5.53	15	5	ND	1	40	1.2	2	2	98	1.29	.112	6	93	2.22	84	.16	7	2.71	.04	.08	1	2	5
RP-07-3 P-2	1	103	3	135	.1	71	23	1268	5.53	17	5	ND	1	47	1.9	2	2	104	1.34	.115	7	92	1.99	103	.16	5	2.88	.04	.09	1	2	5
RP-07-3 P-3	1	174	11	101	.2	44	21	1469	5.67	15	5	ND	1	39	1.8	2	2	111	1.41	.126	7	66	1.85	72	.18	10	2.50	.07	.10	1	2	6
RP-07-3 P-4	1	103	3	141	.1	61	26	2274	6.14	25	5	ND	1	53	1.3	2	2	107	1.30	.120	8	84	1.82	124	.15	5	2.76	.05	.09	1	2	5
RP-07-3 P-5	1	136	11	118	.1	44	26	1006	7.44	14	5	ND	1	96	3.5	2	2	203	1.78	.115	5	57	1.90	70	.16	11	3.34	.08	.08	1	2	11
RP-09-2 PS-1	1	118	6	86	.1	71	24	935	5.94	30	5	ND	1	60	1.7	2	2	117	.94	.065	7	87	1.95	172	.13	3	4.12	.03	.13	1	2	8
RP-09-2 PS-2	1	116	4	108	.1	48	20	626	6.68	36	5	ND	1	48	2.0	2	2	149	.71	.052	5	70	1.55	76	.16	7	3.78	.03	.06	1	2	28
RP-09-2 PS-3	2	81	10	152	.2	35	22	1252	7.60	15	5	ND	1	27	2.7	2	2	125	.37	.118	14	68	1.01	123	.27	9	4.36	.03	.07	1	2	4
RP-09-2 PS-4	1	51	24	239	.5	112	21	937	6.74	10	5	ND	1	39	2.6	2	2	118	.49	.077	9	289	2.03	136	.36	5	2.97	.03	.13	1	2	5
RP-09-2 PS-5	1	87	16	143	.1	53	22	744	5.63	13	5	ND	1	45	1.7	2	3	110	.82	.081	7	75	1.49	176	.20	6	3.59	.03	.08	1	2	45
RP-09-2 PS-6	1	81	10	139	.3	51	19	650	6.06	21	5	ND	1	47	1.0	2	2	115	.84	.068	7	76	1.60	116	.16	5	3.56	.03	.09	1	2	7
RP-09-2 PS-7	1	98	20	151	.4	46	17	627	6.28	16	5	ND	1	43	2.7	2	2	120	1.00	.092	9	70	1.33	96	.27	6	3.07	.03	.09	1	3	4
RP-09-2 PS-8	1	89	23	121	.1	58	24	1090	6.43	16	5	ND	1	30	1.8	2	2	105	.55	.122	17	77	1.59	137	.22	4	4.56	.03	.10	1	2	2
RP-09-2 PS-9	1	59	7	81	.1	42	18	1064	5.21	12	5	ND	1	50	1.7	2	2	108	1.12	.044	5	62	1.71	130	.17	4	3.19	.05	.08	1	2	4
RP-09-2 PS-10	1	75	7	126	.2	50	18	625	6.60	17	5	ND	1	29	1.5	2	5	119	.54	.059	8	67	1.41	121	.30	2	3.65	.03	.08	1	2	5
RP-09-3 P-1	1	101	2	122	.1	55	23	1482	5.52	19	5	ND	1	55	1.3	2	2	110	1.43	.105	6	69	1.75	91	.16	7	2.77	.05	.08	1	2	9
RP-09-3 P-2	1	148	2	127	.1	61	31	1292	6.87	48	5	ND	1	75	2.1	2	2	110	1.72	.109	8	75	2.60	90	.25	6	3.55	.06	.17	1	2	7
RP-09-3 P-3	1	142	15	108	.1	48	26	902	7.40	16	5	ND	1	124	2.3	2	2	201	1.73	.107	5	61	1.93	72	.15	8	3.41	.08	.09	1	2	9
RP-09-3 P-4	1	163	2	101	.1	58	22	888	6.17	14	5	ND	1	105	2.8	2	2	154	2.06	.121	5	74	2.29	69	.16	13	3.57	.11	.10	1	2	9
RP-09-3 P-5	1	120	11	133	.1	67	26	1229	6.54	61	5	ND	1	59	1.9	2	2	137	1.54	.128	9	107	2.17	104	.15	10	2.90	.06	.11	1	2	16
WP-3-3 31150	10	1444	11	98	.6	65	80	2337	13.76	110	5	ND	1	33	6.5	2	2	79	3.18	.084	32	76	1.84	31	.01	3	1.49	.01	.03	1	2	1909
STANDARD C/AU-S	19	57	36	132	7.3	73	30	1057	4.07	41	19	7	36	52	18.5	15	19	55	.56	.097	37	60	.96	183	.07	35	2.03	.06	.14	11	2	52

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DATE RECEIVED: NOV 9 1990

DATE REPORT MAILED: Nov 22/90

ASSAY CERTIFICATE

Homestake International Minerals PROJECT 3132 FILE # 90-2566R

SAMPLE#	Cu %	Au** oz/t
WP-3-3 31150	.12	.048

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
- SAMPLE TYPE: SOIL PULP AU** BY FIRE ASSAY FROM 1 A.T.

SIGNED BY. C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CME LYT L ATO LT E. TIN ST. COU. B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake International Minerals PROJECT 3132 File # 90-2756 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: DARCY

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-03-3 P-3	1	105	2	68	.1	11	25	931	9.07	9	5	ND	1	151	2.2	2	7	321	2.29	.096	4	24	1.47	35	.14	12	3.45	.10	.05	1	2	3
RP-03-3 P-4	1	110	7	86	.1	10	27	924	9.61	9	5	ND	1	154	1.8	2	2	343	2.29	.094	4	20	1.54	31	.15	8	3.51	.10	.04	1	3	5
RP-04-2 A-5-1	1	113	10	88	.1	69	23	764	5.72	26	5	ND	1	41	.9	2	3	129	.65	.062	6	82	1.82	117	.14	8	3.99	.03	.09	1	2	8
RP-04-2 A-5-2	1	146	2	109	.1	53	21	768	5.82	22	5	ND	1	33	1.6	2	4	127	.57	.091	6	70	1.75	130	.18	9	4.14	.03	.10	1	2	10
RP-04-2 A-5-3	1	115	9	97	.1	81	26	632	5.98	16	5	ND	1	45	1.4	2	4	127	.65	.028	4	91	2.14	77	.22	5	4.14	.03	.09	1	2	8
RP-04-2 A-5-4	1	103	2	86	.1	203	34	970	5.76	15	5	ND	1	47	1.0	2	3	101	.71	.077	5	144	3.76	106	.17	4	4.78	.02	.18	1	4	7
RP-04-2 A-5-5	1	206	7	96	.1	65	29	1176	5.61	24	5	ND	1	71	.8	2	3	129	1.24	.099	7	73	2.02	76	.19	6	2.99	.05	.20	2	2	25
RP-04-2 A-5-6	1	104	5	141	.1	59	26	778	6.42	21	5	ND	1	94	1.9	2	4	143	.97	.073	3	69	1.88	74	.16	6	3.28	.04	.15	1	2	14
RP-04-2 A-5-7	1	47	2	60	.1	38	18	810	6.26	2	5	ND	1	46	.8	2	2	144	.68	.053	5	42	1.34	39	.20	4	3.17	.02	.05	1	2	7
RP-04-2 A-6-1	1	125	8	97	.1	54	24	1098	5.67	18	5	ND	1	47	1.2	2	5	118	.79	.098	10	81	1.62	130	.22	9	3.56	.04	.10	1	2	1
RP-04-2 A-6-2	1	130	2	113	.1	50	20	800	5.37	16	5	ND	1	45	.8	2	2	117	.60	.083	11	71	1.54	155	.13	6	4.01	.03	.08	1	2	1
RP-04-2 A-6-3	1	107	7	130	.1	51	20	731	6.06	15	5	ND	1	45	1.4	2	4	129	.69	.049	8	71	1.63	80	.25	5	3.76	.03	.08	1	2	4
RP-04-2 A-6-4	1	66	10	127	.1	68	21	720	5.57	9	5	ND	1	36	.8	2	7	100	.52	.106	8	61	1.52	135	.15	6	4.69	.02	.06	1	2	1
RP-04-2 A-6-5	1	58	3	84	.1	84	26	622	5.49	14	5	ND	1	56	1.3	2	3	119	.84	.046	4	86	1.99	105	.17	4	3.52	.03	.14	1	2	5
RP-04-2 A-6-6	1	127	4	114	.5	51	23	515	6.29	18	5	ND	2	42	1.3	6	2	122	.54	.030	6	61	1.53	94	.20	9	4.27	.03	.08	1	3	1
RP-04-2 A-6-7	1	608	15	197	.2	71	37	972	6.97	19	5	ND	1	50	.4	2	7	119	.83	.067	12	59	1.29	56	.22	4	3.91	.03	.06	1	2	4
RP-04-2 A-6-8	6	130	5	86	.6	58	29	428	7.25	4	5	ND	1	58	1.2	2	4	127	.84	.037	7	71	1.34	28	.31	5	3.36	.05	.11	1	2	388
RP-04-2 A-7-1	1	84	5	70	.1	42	20	989	5.14	15	5	ND	1	59	.9	2	2	114	1.16	.086	8	69	1.56	148	.16	2	3.02	.04	.09	1	2	8
RP-04-2 A-7-2	1	99	4	95	.1	59	21	632	5.77	12	5	ND	1	48	.2	2	3	116	.65	.090	9	72	1.70	163	.15	7	4.96	.03	.07	1	2	1
RP-04-2 A-7-3	1	128	3	96	.1	62	23	664	5.58	12	5	ND	1	46	1.1	2	5	117	.75	.023	6	74	1.79	94	.22	4	4.62	.03	.06	1	3	4
RP-04-2 A-7-4	1	85	3	89	.1	53	24	807	5.80	15	5	ND	1	35	.5	2	2	125	.58	.082	6	59	1.39	103	.17	4	3.94	.03	.08	1	2	171
RP-04-2 A-7-5	1	122	4	97	.2	53	26	640	6.13	9	5	ND	1	45	.6	2	5	135	.48	.032	5	66	1.67	80	.22	6	4.74	.03	.07	1	3	7
RP-04-2 A-7-6	1	169	8	100	.5	41	32	842	6.64	8	5	ND	1	85	1.3	2	2	145	1.03	.081	7	54	1.32	75	.16	5	3.49	.02	.09	1	2	17
RP-04-2 A-7-7	8	324	6	77	.4	38	36	491	8.46	5	5	ND	1	159	1.0	2	4	118	.83	.057	9	40	1.11	57	.18	8	4.44	.03	.10	1	2	8
RP-04-2 A-8-2	1	86	7	106	.1	51	24	888	6.17	15	5	ND	1	43	.2	2	2	143	.76	.086	6	66	1.51	129	.16	5	3.61	.02	.08	1	2	1
RP-04-2 A-8-3	1	130	4	105	.1	61	23	932	5.88	20	5	ND	1	51	.5	2	2	124	.87	.148	6	77	1.83	134	.15	6	3.92	.03	.11	1	2	4
RP-04-2 A-8-4	1	72	13	112	.2	51	20	963	6.00	18	5	ND	1	36	.4	2	3	139	.74	.100	5	69	1.43	108	.15	3	2.84	.02	.10	1	2	5
RP-04-2 A-8-5	1	94	4	90	.1	76	27	600	6.45	17	5	ND	1	31	.8	2	5	129	.53	.056	5	88	1.64	112	.25	6	4.05	.03	.08	1	2	1
RP-04-2 A-8-6	1	252	9	65	.1	46	21	1043	5.25	19	5	ND	1	61	1.0	3	2	122	1.10	.098	11	60	1.21	97	.19	3	2.60	.04	.06	1	2	9
RP-04-2 A-8-7	1	173	2	59	.1	41	22	729	5.05	13	5	ND	1	64	.3	2	2	122	.87	.093	6	51	1.36	76	.15	5	2.94	.03	.07	1	2	8
RP-04-2 A-8-8	1	287	6	74	.2	54	30	716	6.58	7	5	ND	1	87	.4	2	2	153	.95	.099	5	63	1.55	70	.10	4	4.34	.03	.05	1	2	8
RP-04-3 G-1	1	394	31	92	.4	51	33	879	7.20	9	5	ND	1	125	1.1	2	2	177	2.04	.114	6	69	1.71	43	.11	8	3.42	.03	.05	1	2	21
RP-04-3 G-2	1	101	3	91	.1	44	20	982	4.60	17	5	ND	1	76	.6	2	2	97	1.54	.097	10	50	1.45	180	.13	7	2.49	.05	.11	1	2	4
RP-04-3 G-3	1	363	22	84	.4	48	35	875	6.44	9	5	ND	1	135	1.2	2	2	148	1.95	.103	5	66	1.67	34	.10	6	3.19	.03	.05	1	2	46
RP-04-3 G-4	1	463	40	91	.4	57	34	876	5.97	5	5	ND	1	128	1.4	2	2	134	2.19	.107	7	76	1.84	43	.11	5	3.61	.03	.05	1	2	84
RP-05-3 P-1	1	175	3	89	.1	12	24	1003	6.97	3	5	ND	1	96	1.3	2	2	184	2.07	.255	9	7	1.27	69	.15	6	3.12	.04	.06	1	2	2
STANDARD C/AU-S	19	58	37	132	7.2	73	31	1030	4.12	43	22	7	37	52	18.7	15	18	55	.53	.096	36	58	.94	179	.07	36	1.92	.06	.14	11	2	49

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-P5 Soil/Silt P6 Rock AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 23 1990 DATE REPORT MAILED: July 26/90 SIGNED BY.......... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-05-3 P-2	1	162	9	80	.2	4	23	863	7.33	7	5	ND	1	159	1.1	2	4	201	2.68	.207	8	2	1.49	58	.11	6	4.47	.04	.06	2	2	2
RP-05-3 P-3	1	155	5	82	.1	3	22	877	7.29	6	5	ND	1	127	1.4	2	2	204	2.35	.216	8	3	1.30	65	.13	5	3.93	.05	.06	1	2	1
RP-05-3 P-4	1	131	9	80	.1	6	26	771	9.21	6	5	ND	1	129	1.4	2	2	287	2.10	.167	6	6	1.27	51	.14	3	3.71	.06	.05	1	2	4
RP-05-3 P-5	1	118	10	83	.1	5	29	758	7.48	3	5	ND	1	156	1.6	2	2	213	2.79	.140	5	4	1.88	40	.13	7	4.57	.08	.05	1	2	1
RP-05-3 P-6	1	104	8	78	.1	8	29	731	8.57	5	5	ND	1	177	2.3	2	2	269	2.94	.089	3	5	2.23	25	.15	7	4.87	.09	.05	1	2	1
RP-05-3 P-7	1	91	8	85	.2	7	30	742	8.02	5	5	ND	1	185	1.9	3	6	242	2.97	.088	4	6	2.39	30	.15	9	5.10	.10	.05	1	2	1
RP-05-3 P-8	1	71	6	88	.1	10	24	711	10.69	8	5	ND	1	136	1.0	2	2	374	1.58	.094	5	35	1.11	43	.16	5	2.59	.05	.05	2	2	9
RP-05-3 P-9	1	84	5	69	.1	7	26	661	8.66	6	5	ND	1	169	2.0	2	2	292	2.45	.066	3	8	1.82	26	.17	9	3.92	.07	.05	1	2	7
RP-05-3 P-10	1	80	3	72	.1	9	31	689	13.56	9	5	ND	1	153	3.1	2	2	487	2.12	.061	3	12	1.74	23	.21	9	3.54	.06	.03	1	2	1
RP-05-3 P-11	1	73	2	67	.1	7	30	643	14.24	4	5	ND	1	145	3.3	2	2	522	1.95	.056	3	11	1.51	20	.21	7	3.20	.06	.04	1	3	79
RP-05-3 P-12	1	74	2	61	.1	8	26	634	9.88	7	5	ND	1	182	2.1	2	2	353	3.10	.064	3	8	1.83	22	.17	10	4.48	.10	.04	1	4	1
RP-05-3 P-13	1	80	7	68	.1	5	25	655	8.01	3	5	ND	1	158	1.1	2	2	259	2.43	.066	3	7	1.82	31	.15	17	3.99	.08	.04	1	2	1
RP-05-3 P-14	1	69	2	57	.2	19	26	731	13.65	11	5	ND	1	118	2.6	2	2	510	1.96	.065	3	52	1.22	23	.18	10	2.74	.09	.05	1	3	1
RP-06-2 A-9-1	1	133	9	104	.1	74	25	868	6.40	18	5	ND	1	38	2.3	2	2	135	.72	.100	6	112	2.14	131	.16	10	4.76	.04	.11	1	2	3
RP-06-2 A-9-2	1	117	8	242	.3	56	22	736	6.03	17	5	ND	1	41	1.3	2	2	116	.70	.081	8	67	1.46	117	.20	6	4.39	.03	.08	1	2	1
RP-06-2 A-9-3	1	166	15	74	.1	44	20	731	5.21	16	5	ND	1	45	1.4	2	2	117	.87	.051	6	62	1.67	63	.19	2	3.94	.03	.07	1	2	1
RP-06-2 A-9-4	1	128	16	127	.1	60	29	1170	6.24	20	5	ND	1	35	.9	2	3	118	.53	.110	14	68	1.52	83	.21	5	4.81	.02	.06	1	2	48
RP-06-2 A-9-5	2	267	14	139	.1	61	24	1143	6.71	12	5	ND	1	46	1.2	2	4	115	.75	.091	15	61	1.38	126	.28	2	4.22	.04	.09	2	2	6
RP-06-2 A-9-6	1	132	15	78	.1	40	23	718	6.18	8	5	ND	1	51	1.5	2	2	146	.64	.083	6	57	1.68	92	.17	3	4.38	.03	.08	1	2	8
RP-06-2 A-9-7	1	164	17	83	.1	67	28	851	6.56	18	5	ND	1	51	.9	2	3	149	.72	.095	6	93	2.04	109	.15	6	4.68	.03	.09	1	2	12
RP-06-2 A-10-1	1	180	8	96	.1	74	23	557	7.03	12	5	ND	2	42	1.9	2	2	114	.77	.070	13	72	1.38	95	.44	6	4.73	.04	.09	1	2	1
RP-06-2 A-10-2	1	53	7	55	.1	44	15	717	4.58	5	5	ND	1	58	.7	2	2	97	.83	.042	7	56	1.34	157	.19	5	2.52	.03	.07	1	2	1
RP-06-2 A-10-3	1	178	18	99	.1	48	40	1281	6.22	20	5	ND	1	48	1.1	2	4	149	.64	.093	6	77	1.87	58	.15	6	3.85	.03	.05	1	2	66
RP-06-2 A-10-4	1	253	9	82	.1	174	30	445	5.90	7	5	ND	1	20	1.5	2	2	129	.60	.116	14	311	3.14	136	.28	5	4.47	.02	.49	1	2	1
RP-06-2 A-10-5	1	130	19	111	.2	54	25	670	6.72	14	5	ND	1	32	.9	2	2	138	.44	.145	5	71	1.61	61	.16	4	5.46	.02	.10	1	2	23
RP-06-2 A-10-6	1	139	7	97	.1	40	21	980	5.57	11	5	ND	1	65	1.0	2	2	135	.92	.084	6	50	1.43	123	.11	5	3.44	.03	.07	1	2	14
RP-06-2 A-10-7	2	147	11	91	.2	31	23	724	7.85	17	5	ND	1	72	1.2	2	6	178	.84	.146	5	47	1.24	102	.11	2	4.10	.02	.08	1	2	9
RP-06-2 T0-1	2	100	11	392	.1	35	16	863	8.01	5	5	ND	1	28	2.6	2	2	114	.54	.081	14	57	.83	75	.48	2	3.55	.03	.07	1	2	3
RP-06-2 T0-2	1	46	8	142	.1	40	18	873	8.78	9	5	ND	1	20	1.8	2	2	156	.27	.137	9	77	.94	102	.33	2	2.62	.03	.06	1	2	1
RP-06-2 T0-3	1	81	14	125	.2	45	16	538	6.47	11	5	ND	1	33	.8	2	2	143	.42	.068	4	57	1.14	72	.20	3	3.00	.02	.08	1	2	54
RP-06-2 T0-4	1	58	16	169	.2	37	17	736	7.92	13	5	ND	1	28	1.7	2	5	149	.37	.169	6	69	1.19	87	.25	3	2.92	.03	.06	1	2	7
RP-06-2 T0-5	2	178	10	107	.2	27	17	530	6.16	5	5	ND	1	40	.9	2	2	117	.62	.067	10	41	.86	97	.26	3	3.26	.03	.07	1	2	1
RP-06-2 T0-6	2	67	6	84	.1	14	15	395	8.73	6	5	ND	1	37	1.4	2	2	223	.35	.040	8	43	.46	58	.47	2	2.42	.02	.03	1	2	3
RP-06-2 T3-1	1	58	16	191	.2	36	18	1020	7.19	12	5	ND	1	26	1.2	2	3	129	.35	.081	9	61	.98	131	.31	2	3.09	.02	.07	1	2	6
RP-06-2 T3-3	3	53	11	152	.4	33	17	513	6.04	11	5	ND	1	37	1.2	2	2	98	1.09	.079	11	53	.87	79	.41	5	2.96	.04	.07	1	2	8
RP-06-2 T3-4	1	77	18	123	.3	35	19	694	5.77	14	5	ND	1	22	1.1	3	7	104	.36	.089	10	55	.88	80	.18	5	5.24	.02	.06	2	4	1
STANDARD C/AU-S	18	58	44	132	7.3	72	31	1025	4.23	38	21	6	36	52	18.7	15	19	56	.54	.097	37	57	.96	180	.07	37	1.99	.06	.14	11	2	51

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-6-2 T3-5	2	74	24	131	.2	33	26	1279	6.73	20	5	ND	1	26	.6	2	2	129	.39	.228	5	60	.98	74	.12	6	3.09	.02	.05	1	2	93
RP-6-2 T3-9	2	133	2	74	.1	16	21	783	5.05	4	5	ND	1	42	.7	2	2	114	.48	.114	9	23	.85	72	.19	2	4.24	.02	.03	1	2	15
RP-6-2 T4-1	1	86	7	93	.1	64	22	530	5.56	19	5	ND	1	25	.7	4	2	112	.41	.081	4	90	1.70	113	.17	6	3.60	.02	.08	1	2	3
RP-6-2 T4-3	1	48	8	100	.1	31	18	523	6.06	10	5	ND	1	20	.7	2	2	125	.34	.079	6	56	.92	71	.22	4	2.57	.02	.05	1	2	2
RP-6-2 T4-4	1	55	2	81	.1	42	18	491	5.74	10	5	ND	1	21	.9	3	2	108	.37	.147	5	54	1.33	79	.14	5	3.07	.02	.05	1	3	4
RP-6-2 T4-5	2	73	10	78	.1	29	15	760	5.80	9	5	ND	1	22	.4	2	2	128	.24	.097	5	58	.86	64	.13	3	2.71	.02	.05	1	2	8
RP-6-2 T4-7	2	82	12	176	.1	23	31	2870	6.03	8	5	ND	1	50	1.6	2	2	137	.73	.100	5	46	.87	113	.12	5	2.35	.02	.05	1	2	6
RP-6-2 T4-8	3	29	8	106	.1	19	15	506	6.32	4	5	ND	2	19	1.5	3	2	80	.37	.088	15	38	.45	40	.44	2	4.84	.03	.03	1	2	1
RP-6-2 T4-9	1	162	3	62	.1	14	42	557	6.35	7	5	ND	1	51	1.3	2	2	154	.70	.089	5	18	1.11	58	.19	3	3.54	.02	.03	1	2	82
RP-6-2 T5-1	2	167	2	61	.1	8	24	626	5.65	2	5	ND	1	94	1.1	2	2	155	.88	.090	6	13	1.14	75	.10	3	3.70	.02	.03	1	2	10
RP-6-2 T5-2	2	85	4	87	.1	19	15	599	6.07	2	5	ND	1	21	1.3	2	2	91	.33	.088	18	35	.54	40	.40	2	4.31	.02	.03	1	2	2
RP-6-2 T5-3	3	239	4	237	.1	24	17	681	6.59	5	5	ND	1	51	2.6	2	2	109	1.19	.080	16	40	.63	66	.38	2	3.24	.02	.04	1	2	3
RP-6-2 T5-5	3	63	8	187	.5	23	18	726	6.85	4	5	ND	1	21	1.5	2	2	110	.32	.074	10	49	.57	100	.29	2	2.78	.02	.05	1	2	4
RP-6-2 T5-6	2	24	2	106	.3	24	16	465	7.19	6	5	ND	2	9	1.5	2	2	93	.19	.144	12	43	.50	47	.48	2	4.04	.02	.04	1	2	1
RP-6-2 T5-8	1	53	6	145	.6	35	19	648	6.30	7	5	ND	1	18	1.6	4	2	89	.27	.119	17	51	.66	112	.36	3	4.05	.02	.05	1	2	1
RP-6-2 T5-9	1	45	5	169	.2	72	29	582	6.84	5	5	ND	1	54	1.9	2	2	85	.36	.123	5	65	2.03	150	.32	2	3.96	.02	.07	1	2	6
RP-6-2 T6-1	1	51	8	94	.5	29	15	617	5.32	6	5	ND	1	24	.6	3	2	107	.33	.064	6	52	.93	118	.14	4	2.62	.02	.06	1	2	6
RP-6-2 T6-2	2	51	2	88	.2	38	20	662	7.37	20	5	ND	1	22	.8	2	2	122	.31	.145	10	60	1.06	62	.39	2	2.93	.03	.05	1	2	4
RP-6-2 T6-3	2	52	9	92	.1	20	15	802	6.43	2	5	ND	1	15	.6	2	2	106	.16	.104	11	50	.57	49	.33	2	2.87	.02	.04	1	2	24
RP-6-2 T6-4	5	329	5	111	.9	31	23	1130	5.50	2	5	ND	1	40	1.1	2	2	110	.83	.138	14	57	.83	68	.12	2	3.48	.02	.04	1	2	17
RP-6-2 T6-6	2	68	2	80	.1	13	16	732	6.37	3	5	ND	1	39	1.0	2	2	121	.66	.084	17	31	.40	40	.34	3	3.73	.02	.03	1	2	2
RP-6-2 T6-7	2	38	7	71	.1	15	16	497	6.64	2	5	ND	1	22	.7	3	2	122	.31	.069	16	38	.50	38	.45	2	3.23	.02	.03	1	2	2
RP-6-2 T6-8	1	88	6	83	.1	24	24	919	5.94	6	5	ND	1	45	1.6	2	2	102	.40	.084	13	30	1.16	116	.30	2	5.17	.03	.04	1	2	3
RP-6-2 T7-1	1	63	7	83	.1	17	23	726	5.48	8	5	ND	1	36	.4	2	2	117	.37	.081	8	24	.87	50	.21	8	4.60	.02	.03	2	2	3
RP-6-2 T7-2	1	46	4	113	.1	21	19	565	7.45	2	5	ND	1	30	.7	3	2	125	.39	.073	11	38	.69	56	.38	2	3.32	.02	.04	1	3	2
RP-6-2 T7-4	2	71	3	114	.1	20	18	715	6.61	5	5	ND	1	21	1.2	3	2	95	.29	.081	17	41	.54	77	.34	2	4.37	.02	.04	1	2	2
RP-6-2 T7-5	3	77	6	123	.5	19	14	446	5.71	2	5	ND	1	23	.4	3	2	120	.27	.056	10	44	.63	72	.29	4	2.39	.02	.04	1	2	1
RP-6-2 T7-6	2	135	11	85	.1	33	22	741	6.22	13	5	ND	1	30	.2	2	5	124	.40	.102	5	57	1.00	40	.16	2	2.64	.02	.04	1	2	16
RP-6-2 T7-7	2	47	4	122	.3	30	17	976	5.45	5	5	ND	1	25	.7	2	2	94	.26	.069	8	51	.85	116	.16	2	2.97	.02	.05	1	2	1
RP-6-3 T3-2	2	152	4	197	.1	56	23	2670	4.45	11	5	ND	1	47	1.6	2	2	84	1.22	.094	10	59	1.28	102	.12	4	2.41	.03	.09	1	2	178
RP-6-3 T3-6 1 OF 2	1	196	8	144	.1	42	28	692	4.81	4	5	ND	1	84	1.0	2	2	107	1.27	.101	9	71	1.23	85	.10	2	3.29	.02	.05	1	2	11
RP-6-3 T3-6 2 OF 2	1	197	7	155	.3	45	27	720	4.81	3	5	ND	1	87	1.3	2	2	106	1.31	.106	9	72	1.23	81	.10	2	3.29	.02	.05	1	2	14
RP-6-3 T3-7	1	272	2	91	.1	27	19	481	4.41	2	5	ND	1	78	.9	2	4	100	1.12	.109	10	38	.94	98	.13	2	3.02	.02	.04	1	2	11
RP-6-2 T3-8	2	288	2	129	.1	24	21	1008	5.63	5	5	ND	1	62	1.4	2	3	104	1.03	.122	20	34	.65	125	.28	2	4.01	.03	.05	1	2	3
RP-6-3 T4-2	2	137	4	143	.1	51	17	505	4.09	5	5	ND	1	44	.5	3	3	91	1.04	.092	10	61	1.27	71	.13	2	2.49	.03	.08	1	2	15
RP-6-3 T4-6 1 OF 2	2	304	6	106	.2	29	20	541	5.33	2	5	ND	1	80	.7	2	2	131	1.07	.105	11	44	1.12	70	.12	4	3.67	.03	.04	1	2	27
RP-6-3 T4-6 2 OF 2	1	146	6	122	.1	22	28	795	5.61	2	5	ND	1	80	.9	2	2	150	1.07	.086	7	29	1.11	66	.11	4	3.07	.02	.04	1	2	12
STANDARD C/AU-S	19	59	38	132	7.2	73	31	1032	4.17	38	21	7	36	53	18.7	16	21	55	.54	.096	37	57	.98	180	.07	34	2.02	.06	.14	11	2	53

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-6-3 T5-4	1	141	16	94	.1	15	25	728	6.74	4	5	ND	1	101	.4	2	2	190	1.20	.091	6	25	1.24	74	.13	5	3.63	.03	.04	1	2	13
RP-6-3 T5-7	1	147	7	106	.1	41	16	587	3.86	7	5	ND	1	52	.2	2	3	93	1.07	.088	10	59	1.25	74	.13	2	2.59	.03	.09	1	2	22
RP-6-3 T6-5	1	161	15	108	.1	23	27	609	6.88	2	5	ND	1	93	1.1	2	2	199	1.15	.094	7	38	1.27	71	.14	7	3.63	.03	.05	1	2	28
RP-6-3 T7-3	1	142	10	94	.1	23	19	662	5.97	2	5	ND	1	75	.8	2	2	154	1.09	.100	13	33	1.04	107	.24	3	3.83	.04	.04	1	2	17
RP-07-2 PS-16	1	139	10	83	.2	59	23	617	5.23	16	5	ND	1	38	.4	2	6	115	.73	.041	6	86	1.56	116	.17	8	2.84	.04	.08	1	2	41
RP-07-2 PS-17	1	68	8	97	.2	32	14	442	6.30	7	5	ND	1	37	.4	2	3	102	.65	.070	10	57	.90	99	.36	5	3.60	.03	.06	1	2	5
RP-07-2 PS-18	1	100	12	85	.1	51	20	822	5.69	16	5	ND	1	45	.2	2	2	112	.83	.057	9	68	1.61	140	.19	7	3.73	.03	.10	1	2	15
RP-07-2 PS-19	1	149	4	137	.1	33	21	1226	5.52	5	5	ND	1	110	.9	2	2	105	1.14	.080	5	45	1.42	141	.15	4	2.98	.03	.14	1	2	14
RP-07-2 PS-20	1	68	26	176	.1	44	17	688	6.36	9	5	ND	1	47	1.5	2	2	126	.51	.058	5	70	1.54	105	.18	6	3.47	.03	.08	1	2	9
RP-07-2 PS-21	1	78	12	101	.1	63	18	596	4.78	11	5	ND	1	45	.9	2	2	98	.91	.043	5	71	1.88	130	.19	6	3.19	.03	.10	1	2	14
RP-07-2 PS-22	2	50	15	163	.6	36	16	599	6.50	13	5	ND	2	23	.8	2	2	113	.35	.127	9	59	.82	127	.32	4	2.83	.02	.08	1	2	7
RP-07-2 PS-23	1	74	14	135	.1	51	25	1047	5.91	9	5	ND	1	52	.7	2	4	99	.71	.121	11	59	1.15	199	.15	10	3.44	.02	.07	2	2	7
RP-07-2 PS-24	1	90	16	148	.1	41	20	768	7.30	12	5	ND	1	23	.4	2	2	152	.36	.086	6	78	1.70	98	.32	3	3.61	.02	.13	1	2	10
RP-07-2 PS-25	1	88	17	239	.1	88	26	1031	6.90	6	5	ND	1	28	1.2	2	2	108	.79	.062	7	134	2.63	123	.32	7	3.68	.03	.14	1	2	6
RP-07-2 PS-26	1	363	12	94	.2	43	18	521	6.63	15	5	ND	1	28	1.6	2	2	132	.49	.051	5	65	1.31	106	.22	8	3.35	.02	.07	1	2	54
RP-07-2 PS-27	1	150	8	124	.1	53	18	696	5.92	6	5	ND	1	39	1.3	2	2	103	.82	.086	12	65	1.44	120	.26	2	3.73	.03	.09	1	2	1
RP-07-2 PS-28	1	109	11	119	.1	61	17	931	4.86	19	5	ND	1	58	1.3	2	2	97	1.23	.117	9	86	1.61	166	.13	4	3.01	.03	.09	2	2	5
RP-07-2 PS-29	1	106	18	71	.1	44	26	1084	5.26	26	5	ND	1	33	.5	2	2	111	.61	.125	8	57	1.09	91	.10	4	3.94	.02	.08	1	2	23
RP-07-2 PS-30	3	538	12	168	.7	37	20	1048	5.91	14	5	ND	1	51	1.0	2	2	104	.66	.108	30	56	.97	88	.23	6	3.59	.03	.07	1	2	11
RP-07-2 PS-31	1	52	16	122	.1	48	19	692	6.84	4	5	ND	1	28	1.0	2	2	125	.43	.119	7	69	1.18	149	.31	4	3.40	.02	.08	1	2	5
RP-07-2 PS-32	1	101	5	161	.1	62	23	837	6.77	25	5	ND	1	38	1.6	2	2	136	.69	.077	4	85	2.03	71	.17	5	3.50	.02	.09	1	2	7
RP-07-2 PS-33	1	50	15	88	.1	147	28	680	6.26	3	5	ND	1	37	1.1	2	2	114	.70	.053	4	129	3.21	105	.22	5	3.69	.02	.09	1	2	7
RP-07-2 PS-34	1	65	13	79	.1	37	19	843	4.83	14	5	ND	1	37	.7	2	2	100	.68	.114	8	56	1.04	101	.12	4	3.62	.02	.07	1	2	6
RP-07-2 PS-35	1	51	9	78	.1	34	16	552	4.85	6	5	ND	1	42	1.0	2	9	103	.71	.036	5	53	1.22	88	.20	3	3.16	.03	.06	1	2	12
RP-07-2 PS-36	1	101	12	96	.1	52	22	975	5.84	16	5	ND	1	33	.8	3	2	122	.71	.095	5	74	1.64	120	.14	5	3.17	.02	.12	1	2	10
RP-07-2 PS-37	1	93	11	118	.1	47	16	510	5.40	6	5	ND	1	30	1.1	2	2	94	.52	.102	10	56	1.06	101	.26	2	3.62	.03	.07	1	2	10
RP-07-2 PS-38	2	54	5	129	.1	38	18	562	6.11	8	5	ND	2	22	.7	2	2	116	.38	.070	9	57	.91	82	.34	4	3.19	.02	.06	1	2	4
RP-07-2 PS-39	1	46	16	136	.1	32	19	965	5.92	6	5	ND	1	25	1.1	2	2	110	.37	.079	9	53	.84	90	.23	4	3.52	.02	.06	1	2	7
RP-07-2 PS-40	1	70	12	76	.1	37	18	773	4.91	14	5	ND	1	35	1.0	2	3	102	.59	.078	11	54	1.07	95	.15	15	3.46	.03	.06	3	2	9
RP-07-2 PS-41	1	60	16	62	.1	33	16	717	4.76	3	5	ND	1	34	.6	2	2	101	.79	.057	5	61	1.22	80	.19	6	2.48	.03	.10	1	2	118
RP-07-2 PS-42	1	60	18	152	.1	62	20	678	6.26	6	5	ND	1	23	.7	2	2	109	.38	.091	8	69	1.35	95	.30	4	3.75	.02	.07	1	2	6
RP-07-2 PS-43	2	67	12	159	.3	61	25	885	7.16	2	5	ND	2	16	1.3	2	2	106	.23	.091	14	80	1.38	94	.43	2	4.96	.02	.06	1	3	7
RP-07-2 PS-44	1	46	7	106	.2	187	34	580	6.43	3	5	ND	1	23	2.0	2	2	109	.68	.072	3	111	4.31	66	.26	4	3.91	.02	.10	1	4	14
RP-07-2 PS-45	2	48	4	88	.2	33	14	452	6.44	7	5	ND	1	35	1.5	3	2	125	.81	.052	6	58	1.08	72	.29	6	2.72	.03	.07	1	2	18
RP-07-2 PS-46	1	97	8	48	.1	38	16	511	4.33	13	5	ND	1	36	.9	3	4	103	.67	.049	5	54	1.12	70	.16	7	2.67	.03	.06	2	3	14
RP-07-2 PS-47	1	46	7	108	.3	34	16	567	6.10	4	5	ND	1	41	1.5	2	6	114	.76	.050	7	52	1.03	85	.26	4	3.06	.02	.06	2	2	2
STANDARD C/AU-S	18	58	38	132	7.2	69	30	1028	4.09	38	20	7	37	52	18.7	14	21	55	.52	.095	36	57	.94	179	.07	34	1.96	.06	.14	11	2	46

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
35060	1	730	2	40	.1	4	35	342	9.72	3	5	ND	1	103	.5	2	3	259	2.73	.061	2	2	2.08	14	.13	3	3.45	.27	.09	1	2	36
35061	4	505	24	42	.1	26	26	429	5.23	2	5	ND	1	29	.2	3	6	109	1.86	.229	10	11	.66	27	.24	9	1.59	.08	.13	1	2	7
35147	1	102	2	93	.1	8	23	851	5.80	2	5	ND	1	63	.5	3	4	115	1.53	.092	5	6	1.78	24	.17	4	2.77	.06	.05	1	2	1
35148	1	266	2	55	.6	8	21	663	5.09	2	5	ND	1	47	.2	4	3	122	2.19	.088	3	10	1.47	21	.11	2	2.15	.16	.09	1	2	1
35149	6	273	2	48	.1	18	16	627	7.48	3	6	ND	1	20	.6	2	3	129	1.37	.158	4	19	1.21	14	.30	3	2.10	.08	.03	3	2	19
35150	1	210	4	32	.1	5	18	580	4.61	2	6	ND	1	70	.2	2	3	104	3.15	.094	3	12	1.22	26	.10	5	2.77	.16	.12	2	2	6
35151	1	216	6	133	.6	9	19	1215	5.35	6	5	ND	1	110	.4	2	2	163	3.78	.074	3	17	1.98	43	.09	2	3.48	.13	.07	1	2	1
35152	1	203	2	53	.2	27	27	516	6.96	6	6	ND	2	130	.3	2	2	242	2.22	.102	5	38	1.69	131	.25	6	3.56	.20	.33	1	2	5
35153	2	121	3	15	.2	4	10	245	3.61	2	5	ND	1	86	.2	2	2	66	2.24	.110	6	7	.50	38	.10	8	2.42	.20	.12	2	2	6
35154	1	194	2	69	.3	22	19	552	5.13	5	5	ND	3	36	.2	4	3	165	1.63	.200	11	26	1.39	29	.23	9	2.18	.12	.22	1	2	2
35155	1	99	2	47	.1	6	11	584	3.70	2	5	ND	1	82	.2	2	2	107	2.44	.096	3	10	.90	33	.14	7	2.45	.18	.13	2	2	56
35156	2	258	3	21	.1	27	17	319	3.39	6	8	ND	1	43	.3	2	4	93	1.98	.176	5	38	.95	22	.19	6	2.09	.14	.12	1	2	7
35230	4	101	4	22	.1	5	2	398	1.98	4	5	ND	5	3	.2	2	2	2	.11	.026	15	6	.03	6	.01	7	.29	.07	.12	1	2	2
STANDARD C/AU-R	19	58	38	132	7.3	71	31	1028	4.02	41	16	7	40	52	18.9	15	23	56	.52	.093	39	58	.96	182	.07	39	1.95	.06	.14	11	2	485

GEOCHEMICAL ANALYSIS CERTIFICATE

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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 0+25N 2+00W	3	95	7	61	.1	68	32	607	6.60	29	5	ND	1	45	.6	2	2	134	.91	.102	4	93	1.60	40	.14	3	2.76	.02	.06	1	2	128
RP 0+25N 1+80W	2	58	11	112	.1	53	37	1054	7.15	20	10	ND	1	32	1.5	2	2	166	.67	.111	5	78	1.38	60	.25	3	2.53	.03	.08	2	2	28
RP 0+25N 1+60W	2	83	10	93	.2	68	31	661	6.37	25	5	ND	1	36	.5	2	6	135	.73	.081	6	80	1.53	52	.30	4	2.88	.03	.07	1	2	51
RP 0+25N 1+40W	3	59	4	87	.1	89	32	541	6.63	10	5	ND	1	26	1.3	2	2	146	.68	.044	6	82	2.04	39	.42	2	2.74	.04	.08	1	2	71
RP 0+25N 1+20W	2	74	16	105	.1	145	41	836	6.84	5	5	ND	2	24	1.8	2	2	115	.76	.044	8	77	2.87	28	.49	2	3.63	.03	.07	1	2	1
RP 0+25N 1+00W	2	54	4	101	.1	117	46	1454	5.88	5	5	ND	1	19	.8	2	4	121	.58	.064	3	100	2.56	47	.30	5	2.99	.02	.07	1	2	4
RP 0+25N 0+80W	2	127	2	113	.1	73	41	1644	7.38	115	5	ND	2	26	1.7	2	2	119	.59	.075	7	81	1.46	48	.32	9	2.83	.02	.07	1	2	23
RP 0+25N 0+60W	2	132	3	50	.1	38	30	517	7.10	18	5	ND	1	36	1.0	2	2	181	.87	.042	3	40	1.72	43	.33	6	3.22	.05	.09	1	2	6
RP 0+25N 0+40W	2	75	8	119	.1	96	43	1560	6.97	21	5	ND	1	27	.7	2	2	141	.59	.070	6	133	2.10	63	.24	4	3.46	.02	.04	1	2	65
RP 0+25N 0+20W	2	79	10	137	.1	123	48	1273	7.15	26	6	ND	1	42	.7	2	2	132	.85	.081	4	167	2.53	59	.23	3	3.64	.02	.03	1	2	7
RP 0+25N 0+00	2	84	5	90	.1	109	38	755	6.97	55	5	ND	1	38	1.4	2	2	139	.71	.083	3	157	2.26	40	.18	4	3.69	.02	.04	1	2	29
RP 0+00 0+60W	2	101	11	69	.1	72	36	550	6.71	17	5	ND	1	40	.9	2	3	142	.81	.050	4	85	1.75	47	.20	6	3.18	.03	.07	1	2	25
RP 0+25S 1+40W	2	503	2	141	.4	40	23	1104	2.83	5	5	ND	1	76	.9	2	4	53	3.06	.171	14	40	.58	86	.09	5	2.11	.03	.04	1	2	10
RP 0+25S 1+20W	2	92	7	96	.1	70	34	925	5.51	9	5	ND	2	34	1.4	2	6	110	1.02	.047	7	82	1.54	61	.39	2	2.68	.04	.09	1	2	2
RP 0+25S 1+00W	3	116	4	125	.1	59	34	861	6.23	10	5	ND	3	28	1.6	2	2	93	.63	.085	13	53	.78	38	.54	2	3.08	.05	.05	1	2	10
RP 0+25S 0+80W	2	47	2	160	.1	83	50	2594	5.09	6	5	ND	2	30	1.3	2	2	106	.85	.069	6	79	1.96	74	.34	2	2.51	.02	.14	1	3	10
RP 0+25S 0+60W	1	95	8	94	.2	88	38	1272	5.69	26	5	ND	1	36	.8	3	2	103	1.06	.070	7	100	2.12	76	.19	3	3.03	.02	.08	1	2	11
RP 0+25S 0+40W	2	67	10	182	.1	37	30	1109	7.20	20	5	ND	1	24	1.5	2	5	152	.51	.123	7	55	1.07	69	.34	3	2.29	.03	.18	1	2	49
RP 0+25S 0+20W	2	147	5	83	.1	63	33	1067	6.18	26	5	ND	1	34	.6	2	2	122	.91	.078	8	75	1.60	60	.19	2	2.89	.03	.08	2	2	30
RP 0+50S 1+00W	4	118	5	128	.1	49	32	962	6.66	16	5	ND	2	31	1.9	2	7	119	.58	.079	6	68	1.09	50	.35	4	1.92	.03	.09	1	2	19
RP 0+50S 0+60W	2	97	6	193	.2	74	37	601	7.16	88	5	ND	1	25	1.4	2	6	132	.65	.064	7	68	1.31	40	.33	6	2.88	.03	.11	1	2	15
RP 0+50S 0+40W	2	95	2	65	.1	76	34	693	7.52	94	5	ND	1	33	.5	2	2	135	.70	.053	4	89	1.73	45	.16	4	3.13	.02	.13	1	2	80
RP 0+75S 1+40W	2	133	6	75	.1	89	42	860	6.93	30	5	ND	1	36	.8	2	3	113	.92	.061	8	82	1.63	53	.27	5	3.12	.04	.11	1	2	37
RP 0+75S 1+20W	3	97	10	109	.2	55	31	631	6.37	18	5	ND	1	32	1.5	2	2	127	.84	.060	7	75	1.27	51	.29	3	2.42	.03	.11	1	2	10
RP 0+75S 1+00W	5	180	11	99	.6	49	41	557	7.23	17	5	ND	2	38	1.4	2	2	141	.83	.064	10	66	1.02	37	.25	5	2.65	.02	.15	1	2	30
RP 0+75S 0+80W	2	75	8	128	.2	92	40	991	5.90	15	5	ND	3	25	1.3	2	2	117	.66	.057	8	114	1.70	48	.43	3	2.66	.03	.12	1	2	2
RP 0+75S 0+60W	3	135	3	82	.4	73	64	1225	9.48	40	5	ND	1	26	1.6	2	2	151	.88	.147	6	79	1.39	46	.18	6	3.02	.02	.11	1	3	22
RP 0+75S 0+40W	2	91	2	136	.1	51	30	999	5.98	32	5	ND	1	30	1.2	2	2	115	.72	.067	8	68	1.20	56	.28	2	2.33	.03	.08	1	2	202
RP 0+75S 0+20W	3	67	7	159	.1	56	36	860	8.11	28	5	ND	1	23	1.7	2	2	157	.53	.109	6	84	1.35	52	.27	4	2.63	.03	.09	1	2	40
RP 1+00S 1+00W	3	456	6	84	.1	87	34	1068	5.73	16	5	ND	1	39	1.4	2	2	87	1.12	.083	17	68	1.42	49	.25	3	3.31	.04	.07	1	2	44
RP 1+00S 0+60W	3	96	6	94	.1	55	39	674	8.27	50	5	ND	1	30	1.8	2	2	157	.62	.061	6	82	1.15	36	.27	5	2.69	.03	.09	1	2	510
RP 1+25S 1+40W	4	70	4	102	.1	71	40	779	7.79	29	5	ND	3	28	1.7	2	2	133	.49	.062	10	73	.99	60	.48	4	2.97	.04	.09	1	2	14
RP 1+25S 1+20W	4	119	7	89	.1	75	76	995	8.19	52	7	ND	3	32	1.7	2	2	123	.66	.064	8	66	1.19	51	.39	3	3.12	.03	.11	1	2	5
RP 1+25S 1+00W	4	99	6	102	.5	38	62	1915	6.67	16	6	ND	1	32	1.5	2	2	114	.57	.065	10	60	.76	62	.31	4	2.23	.02	.09	1	2	18
RP 1+25S 0+80W	7	59	2	99	.2	37	34	942	8.19	11	5	ND	3	19	2.0	2	3	112	.32	.090	9	55	.88	49	.65	2	2.15	.04	.05	2	2	1
RP 1+25S 0+60W	5	94	10	116	.3	35	37	726	8.06	20	5	ND	2	30	1.6	2	2	148	.49	.066	7	57	.97	45	.38	4	2.22	.02	.09	1	2	135
RP 1+50S 0+60W	4	74	2	120	.7	32	40	752	8.20	12	5	ND	2	24	1.6	2	2	169	.44	.072	6	48	.94	50	.39	3	2.42	.03	.08	1	2	252
STANDARD C/AU-S	20	58	40	132	6.9	72	33	1053	3.96	39	22	7	39	52	18.4	16	20	57	.48	.094	39	59	.88	180	.08	38	1.88	.06	.14	12	2	51

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1-P5 Soil/Silt P6 Rock AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 30 1990 **DATE REPORT MAILED:** Aug 3/90. **SIGNED BY.**.......D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Homestake Mining (Canada) Limited PROJECT 3132 FILE # 90-2986

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 1+75S 1+40W	3	166	8	105	.2	82	34	955	6.39	3	6	ND	2	43	1.6	2	2	114	.86	.049	11	77	1.51	59	.41	7	3.08	.05	.09	2	2	9
RP 1+75S 1+20W	4	45	18	105	.2	26	29	753	8.56	5	5	ND	2	30	2.1	2	4	144	.54	.074	10	46	.55	60	.56	8	2.27	.03	.11	2	2	9
RP 1+75S 1+00W	3	154	12	119	.1	66	40	1834	7.20	11	6	ND	2	43	.8	2	2	107	.72	.098	14	66	1.05	76	.39	7	3.30	.04	.12	1	4	139
RP 1+75S 0+80W	5	115	14	113	.1	90	51	712	8.51	21	5	ND	2	32	1.3	2	10	121	.77	.074	10	73	1.43	45	.48	3	3.13	.04	.13	1	2	15
RP 2+25S 1+40W	2	78	17	148	.3	75	34	688	6.69	11	5	ND	2	37	1.1	2	6	138	.71	.123	7	77	1.47	43	.28	5	3.27	.04	.11	1	2	8
RP 2+25S 1+20W	2	90	19	126	.1	60	36	732	7.02	9	5	ND	1	59	1.2	2	2	146	.84	.050	6	71	1.62	68	.29	4	4.23	.03	.13	1	2	9
RP 2+25S 1+00W	3	97	14	128	.3	53	42	1278	7.27	12	5	ND	2	32	1.9	2	7	116	.76	.084	8	56	.95	72	.30	7	3.03	.03	.11	2	2	36
RP 2+25S 0+80W	5	245	23	120	.3	57	66	801	11.45	169	5	ND	2	27	2.2	2	2	170	.71	.081	7	39	1.06	50	.23	7	4.41	.02	.07	1	3	151
RP 2+25S 0+60W	2	186	12	89	.1	53	44	807	7.84	29	5	ND	1	50	1.0	2	5	133	1.06	.067	4	55	1.51	51	.18	8	3.84	.03	.14	1	2	19
RP-02-3 35082	1	95	5	103	.1	72	22	676	4.47	10	5	ND	1	66	.8	2	2	100	1.53	.082	6	80	1.80	80	.17	10	2.42	.04	.07	2	2	4
RP-3-2 F1-1	2	93	6	77	.2	72	33	615	6.31	17	5	ND	2	38	.3	2	9	144	.63	.092	5	82	1.74	97	.20	7	4.44	.04	.08	1	2	19
RP-3-2 F1-2	3	99	17	89	.1	47	28	574	6.85	6	7	ND	3	22	1.3	2	9	113	.37	.133	16	57	1.02	39	.53	4	5.39	.04	.06	1	2	15
RP-3-2 F1-3	1	171	6	62	.1	71	24	467	4.81	9	5	ND	1	56	.6	3	2	106	1.05	.053	10	69	1.76	110	.26	9	3.31	.07	.06	1	2	12
RP-3-2 F1-4	2	161	15	72	.3	54	29	677	5.39	9	5	ND	3	60	.5	2	3	130	.73	.076	7	64	1.40	78	.22	5	4.07	.04	.08	1	2	11
RP-3-2 F2-1	3	258	17	104	.6	66	30	650	6.93	11	9	ND	4	33	1.8	3	4	119	.55	.098	14	84	1.11	95	.41	7	4.97	.04	.06	1	2	21
RP-3-2 F2-2	2	132	20	56	.1	57	33	564	6.09	17	5	ND	1	43	.5	2	2	137	.84	.052	4	72	1.44	102	.17	6	3.94	.04	.07	1	2	16
RP-3-2 F3-1	1	171	14	61	.2	68	31	579	5.28	14	5	ND	2	47	.2	2	2	119	.71	.076	5	77	1.51	58	.20	3	3.57	.04	.06	1	2	19
RP-3-2 F3-2	2	92	8	43	.1	80	23	335	3.68	2	5	ND	1	37	.4	2	3	92	.76	.009	2	68	1.92	57	.21	3	2.72	.05	.05	2	2	7
RP-3-2 F3-3	1	152	7	60	.1	78	33	537	5.07	6	5	ND	1	51	.8	2	2	115	.95	.068	6	76	1.74	82	.21	6	3.37	.04	.08	1	2	14
RP-3-2 F3-4	1	218	14	63	.1	55	32	596	6.42	14	5	ND	1	56	.3	2	2	178	.71	.093	5	68	1.34	60	.16	7	3.65	.03	.07	1	2	16
RP-3-2 F4-1	5	88	12	99	.2	35	24	436	7.25	4	5	ND	3	26	1.1	2	2	123	.35	.078	11	55	.57	81	.62	3	2.85	.04	.05	1	2	5
RP-3-2 F4-2	3	1136	14	61	.1	179	33	535	5.42	6	5	ND	1	51	1.0	2	4	124	.74	.036	4	78	1.74	101	.16	3	4.69	.03	.07	1	2	18
RP-3-2 F4-3	2	80	2	41	.1	118	31	439	4.31	2	5	ND	1	26	.8	2	4	92	.60	.018	2	147	2.50	42	.29	5	2.74	.04	.09	2	2	4
RP-3-2 F5-1	2	107	24	128	.5	52	41	598	7.22	6	5	ND	2	52	1.1	2	11	149	.63	.035	5	79	1.29	201	.21	6	3.38	.02	.05	1	2	136
RP-3-3 F5-2	1	129	10	88	.1	16	30	1366	5.27	4	5	ND	1	154	.8	2	3	144	2.32	.085	4	19	1.38	58	.12	11	3.89	.11	.09	1	2	9
RP-3-2 F5-3	2	459	15	88	.1	55	44	1293	9.18	5	5	ND	3	55	1.9	2	2	199	.80	.136	8	64	1.31	96	.24	4	4.17	.02	.11	2	2	68
RP-3-2 F5-4	3	813	18	85	.1	83	35	565	5.84	9	5	ND	1	66	.2	2	2	137	.93	.053	8	75	1.50	74	.17	7	4.24	.03	.08	1	2	19
RP-3-3 ION-1	1	137	10	68	.1	22	28	576	6.68	2	5	ND	1	134	.4	2	3	221	1.65	.097	5	31	1.44	53	.15	7	3.32	.05	.04	1	2	16
RP-3-3 ION-2	2	102	18	67	.1	21	34	743	10.49	4	5	ND	2	125	1.3	2	8	410	1.47	.075	4	31	1.25	41	.17	6	2.75	.05	.04	1	2	12
RP-3-3 ION-3	1	110	9	65	.1	13	32	845	7.60	4	5	ND	3	174	1.5	2	6	268	1.96	.116	6	21	1.30	52	.14	8	3.52	.07	.05	3	2	14
RP-3-3 ION-4	2	204	12	81	.1	32	26	657	6.63	4	5	ND	1	140	.6	2	2	166	1.62	.098	6	41	1.40	45	.13	6	3.23	.04	.05	1	2	14
RP-3-3 ION-5	2	99	10	63	.1	15	28	544	9.01	6	5	ND	1	133	.9	2	2	310	1.55	.108	5	25	1.22	39	.16	10	2.98	.05	.04	2	3	11
RP-4-1 A-12-1	2	108	14	122	.1	55	28	789	6.04	24	5	ND	2	38	.9	3	5	144	.57	.074	5	78	1.62	110	.17	9	4.35	.03	.10	1	2	24
RP-4-2 A-11-1	2	109	16	126	.2	42	26	759	5.94	25	9	ND	1	39	.5	2	2	138	.57	.066	9	63	1.46	130	.20	8	4.17	.03	.09	1	2	8
RP-4-2 A-11-2	2	280	7	86	.4	94	26	805	4.76	4	5	ND	3	94	.8	2	3	142	2.61	.115	10	80	2.24	57	.17	15	3.36	.03	.09	1	2	7
RP-4-2 A-11-3	1	103	13	86	.2	59	32	1047	5.43	30	5	ND	1	48	.8	3	2	130	.83	.085	8	75	1.72	123	.15	9	3.98	.04	.11	2	2	7
RP-4-2 A-11-4	2	126	14	101	.1	73	31	672	5.85	20	5	ND	2	44	1.0	2	2	128	.64	.077	7	81	1.77	88	.27	6	4.12	.04	.09	1	2	7
STANDARD C/AU-S	20	58	40	132	7.1	72	33	1053	3.96	43	22	8	40	52	18.4	15	21	58	.48	.093	39	58	.88	183	.08	39	1.88	.06	.13	12	2	48

refer to detailed grid.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-4-2 A-11-5	2	108	2	100	.3	82	31	849	5.50	35	5	ND	1	56	1.0	2	2	124	.84	.055	5	100	2.10	97	.17	2	3.39	.03	.12	2	2	10
RP-4-2 A-11-6	2	151	7	102	.1	90	31	732	6.02	52	5	ND	1	51	.8	2	4	136	.70	.047	4	102	2.28	83	.17	4	3.99	.03	.14	1	2	9
RP-4-2 A-11-7	3	240	7	169	.6	79	42	676	7.40	19	5	ND	1	72	.5	2	2	155	.91	.056	4	83	1.93	42	.15	2	4.32	.04	.05	1	2	46
RP-4-2 A-12-2	2	132	12	98	.1	62	27	560	5.81	20	5	ND	1	33	.6	2	2	125	.46	.059	8	78	1.45	91	.22	3	3.89	.03	.08	1	2	12
RP-4-2 A-12-3	2	131	4	98	.1	67	29	652	5.85	28	5	ND	1	32	.5	2	2	130	.46	.074	4	98	1.74	96	.15	5	4.06	.03	.10	1	2	7
RP-4-2 A-12-4	2	107	4	87	.5	59	29	705	5.37	28	5	ND	1	39	.5	2	2	118	.57	.069	5	77	1.67	83	.14	6	3.34	.03	.09	1	2	18
RP-4-2 A-12-5	1	92	11	74	.1	59	25	680	5.00	32	5	ND	1	44	.3	2	2	115	.65	.058	4	70	1.63	72	.14	6	2.81	.03	.06	1	2	9
RP-4-2 A-12-6	2	180	4	91	.1	68	28	781	5.11	50	5	ND	1	40	.2	2	3	118	.82	.044	3	78	2.08	93	.18	3	3.19	.04	.10	1	2	4
RP-4-2 A-12-7	2	481	4	220	.3	67	25	871	5.88	35	5	ND	1	45	1.4	2	2	116	.87	.068	12	71	1.66	98	.30	3	3.50	.05	.10	1	2	1
RP-4-2 A-13-1	2	132	2	106	.4	86	30	669	6.02	20	5	ND	1	43	.8	2	2	133	.53	.063	5	95	1.71	107	.18	4	3.99	.02	.10	2	2	2
RP-4-2 A-13-2	2	104	5	86	.3	41	19	562	5.11	16	5	ND	1	34	.7	2	3	108	.41	.076	9	61	1.21	108	.14	2	3.64	.02	.07	2	2	3
RP-4-2 A-13-3	3	168	11	128	.1	62	36	854	5.83	23	5	ND	1	41	.2	2	5	123	.63	.081	6	70	1.52	110	.15	8	3.64	.03	.08	1	2	1
RP-4-2 A-13-4	3	257	4	127	.1	83	85	2286	10.60	34	5	ND	1	29	1.2	2	2	230	1.03	.052	6	85	2.12	48	.18	2	3.75	.02	.03	1	2	1
RP-4-2 A-13-5	2	108	10	100	.1	72	29	630	5.97	35	5	ND	1	38	.7	2	2	136	.49	.045	4	94	2.02	70	.19	4	3.83	.03	.07	1	2	9
RP-4-2 A-13-6	3	145	13	125	.3	74	27	660	5.60	46	5	ND	1	50	.8	2	4	122	.93	.049	12	91	1.77	107	.19	2	3.66	.03	.09	1	3	8
RP-4-3 AS-1	2	394	4	155	.2	60	18	570	3.41	8	5	ND	1	75	.7	2	2	72	2.44	.100	7	59	1.33	65	.10	16	2.11	.03	.07	1	2	17
RP-4-3 AS-2	1	144	5	226	.2	44	16	894	3.83	12	5	ND	1	86	.5	2	5	66	1.83	.126	9	55	1.01	157	.09	6	2.51	.03	.09	2	2	4
RP-6-2 TA-1	5	40	2	89	.1	40	24	615	6.24	4	5	ND	3	25	1.6	2	2	83	.55	.096	19	43	.85	65	.62	4	3.29	.06	.05	2	2	8
RP-6-2 TA-2	3	88	4	89	.1	29	20	563	6.12	8	5	ND	1	34	.6	2	3	138	.39	.143	7	49	.97	121	.20	3	2.92	.02	.05	1	2	9
RP-6-2 TA-3	3	70	12	148	.3	33	20	918	6.97	7	5	ND	1	21	1.3	2	2	119	.22	.064	9	62	.73	88	.35	2	2.89	.02	.06	1	2	5
RP-6-2 TA-5	2	81	13	145	.3	51	21	530	5.60	13	5	ND	1	34	1.1	2	2	117	.49	.046	6	65	1.29	73	.21	2	2.69	.02	.07	2	2	10
RP-6-2 TA-7	2	58	6	143	.1	30	17	546	5.46	10	5	ND	1	38	.7	2	3	125	.45	.058	6	59	.89	68	.18	2	3.22	.02	.05	1	2	13
RP-6-2 TA-8	3	35	2	195	.2	29	22	1389	6.55	2	5	ND	1	14	1.2	2	4	97	.16	.095	14	53	.52	97	.34	2	3.74	.02	.05	2	2	5
RP-6-3 TA-4	2	210	12	152	.1	60	21	386	4.61	10	5	ND	1	78	.9	2	2	98	1.10	.100	8	108	1.25	81	.11	3	2.64	.02	.04	1	2	23
RP-6-3 TA-6	4	132	5	154	.2	64	25	882	6.36	13	5	ND	1	53	.7	2	3	98	1.22	.105	12	64	1.08	93	.17	3	2.52	.03	.06	2	2	8
RP-6-3 TA-10	2	240	14	191	.3	75	33	781	4.90	14	8	ND	1	79	1.9	2	2	107	1.22	.100	9	111	1.56	83	.10	4	2.79	.02	.05	2	2	123
RP-7-2 PS-48	4	156	2	124	.3	57	22	587	5.77	17	5	ND	1	41	1.3	2	2	119	.66	.055	12	70	1.18	123	.28	2	3.28	.03	.08	1	2	5
RP-7-2 PS-49	3	57	3	145	.9	47	16	440	5.69	17	5	ND	1	23	1.1	2	3	112	.33	.086	8	90	1.12	125	.36	2	2.47	.03	.07	2	2	6
RP-7-2 PS-50	2	79	3	57	.2	37	21	526	4.43	19	5	ND	1	29	.4	2	2	106	.48	.082	6	54	.95	66	.13	2	2.73	.02	.07	1	2	25
RP-7-2 PS-51	2	61	12	61	.1	35	18	477	4.28	18	5	ND	1	29	.4	2	4	100	.45	.124	5	53	.95	84	.12	2	2.90	.02	.06	1	2	6
RP-7-2 PS-52	2	77	3	89	.1	39	25	488	5.46	15	5	ND	1	30	.3	2	2	139	.77	.037	6	57	1.37	100	.27	2	2.89	.03	.16	1	2	9
RP-7-2 PS-53	3	43	2	164	.1	38	20	529	6.62	4	5	ND	2	16	1.6	2	2	97	.27	.126	13	53	.57	74	.64	2	3.63	.04	.05	1	2	3
RP-7-2 PS-54	-2	48	3	86	.1	93	24	461	4.68	7	5	ND	1	36	.7	2	2	100	.80	.025	4	89	2.30	75	.23	4	2.83	.02	.06	2	2	16
RP-7-2 PS-55	2	67	5	158	.1	44	22	546	5.69	13	5	ND	1	34	.9	2	2	116	.60	.087	7	62	1.28	89	.23	2	2.73	.02	.10	1	2	3
RP-7-2 PS-56	2	107	10	77	.1	36	19	390	4.68	16	5	ND	1	80	.6	2	2	109	.50	.036	4	56	1.15	82	.15	5	3.13	.02	.07	2	2	8
RP-7-2 PS-57	2	47	6	72	.1	32	18	519	4.61	15	5	ND	1	33	.8	3	2	114	.52	.020	3	55	1.13	70	.15	2	2.46	.02	.06	2	2	4
RP-7-2 PS-58	2	75	9	65	.1	49	23	699	4.64	21	5	ND	1	38	.5	2	3	105	.48	.083	5	73	1.28	104	.11	2	2.99	.02	.09	1	2	4
STANDARD C/AU-S	20	57	37	132	7.0	72	32	992	3.96	42	21	7	39	52	18.4	16	20	57	.48	.095	39	59	.88	183	.08	34	1.88	.06	.14	12	2	42

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-7-2 PS-59	2	77	5	151	.6	51	22	852	5.57	13	5	ND	1	31	.8	3	2	114	.50	.077	9	73	1.22	133	.24	5	2.68	.03	.08	1	2	3
RP-7-2 PS-60	1	137	9	74	.1	78	24	747	5.02	16	5	ND	1	34	.5	2	2	117	.57	.052	11	83	1.63	220	.22	5	3.42	.03	.14	1	2	6
RP-7-2 PS-61	2	86	9	94	.1	58	29	1025	5.66	26	5	ND	1	41	.3	2	2	119	.52	.069	10	87	1.54	189	.14	5	3.94	.02	.09	1	2	5
RP-7-2 PS-62	3	217	8	180	.5	84	30	963	6.79	23	5	ND	1	54	1.1	2	2	126	.72	.087	16	91	1.60	234	.24	8	4.43	.04	.10	1	2	4
RP-7-2 PS-63	2	51	12	106	.3	33	18	525	5.23	14	5	ND	1	39	.2	2	2	119	.68	.055	5	57	1.02	83	.16	5	2.69	.02	.10	1	2	4
RP-7-2 PS-64	13	3204	18	83	2.0	94	99	1648	16.38	166	5	ND	6	52	1.2	2	11	207	.99	.191	24	22	1.28	70	.08	3	2.55	.01	.13	1	3	33
RP-7-2 PS-65 -	2	143	4	82	.1	41	23	1006	5.14	25	5	ND	1	47	.2	2	2	121	1.07	.096	8	58	1.23	137	.14	6	2.53	.04	.09	1	2	13
RP-7-2 PS-66	3	151	9	161	.7	50	24	1118	5.76	15	5	ND	3	48	1.5	2	2	101	1.07	.144	18	52	.82	195	.36	2	3.07	.05	.07	1	3	3
RP-7-2 PS-67	2	128	4	96	.1	69	24	639	6.38	12	5	ND	1	74	.6	2	2	151	.67	.062	4	80	2.06	85	.23	6	3.74	.02	.10	1	2	7
RP-7-2 PS-68	2	121	12	128	.1	47	20	645	6.34	14	5	ND	1	29	.8	2	2	137	.32	.109	5	81	1.14	87	.24	4	4.13	.02	.08	1	2	9
RP-7-2 PS-69	2	64	13	78	.1	46	24	518	5.61	22	5	ND	2	38	.2	4	2	111	.41	.067	7	62	1.28	175	.12	3	4.08	.02	.08	1	2	6
RP-7-2 PS-70	2	62	10	111	.2	43	21	682	5.02	13	5	ND	1	45	.8	2	8	113	.83	.053	6	62	1.29	114	.18	3	2.95	.03	.08	1	2	5
RP-7-2 PS-71	2	75	13	140	.1	50	24	642	6.23	24	5	ND	1	33	.6	2	2	130	.56	.108	7	74	1.37	129	.21	2	3.64	.02	.14	1	2	2
RP-7-3 P-8	2	110	9	115	.1	66	27	762	5.05	15	7	ND	1	45	.2	2	5	106	1.06	.108	7	90	1.75	98	.16	5	2.46	.04	.10	1	2	2
RP-7-3 P-9	2	153	14	182	.5	44	25	1180	4.39	22	5	ND	1	66	1.0	2	2	95	1.39	.117	9	58	1.19	103	.13	6	2.31	.03	.42	1	2	8
RP-7-3 P-9 2 OF 2	2	155	16	183	.5	45	25	1194	4.41	27	5	ND	1	69	.8	2	2	94	1.42	.114	10	58	1.18	107	.13	8	2.34	.03	.31	1	2	8
RP-7-3 P-10	2	85	8	153	.1	53	25	1505	5.11	25	5	ND	1	76	.7	2	2	103	1.23	.111	8	66	1.57	114	.20	6	2.43	.06	.10	1	2	7
RP-7-3 P-11	2	89	11	153	.1	74	30	1864	4.86	15	5	ND	1	44	.6	2	2	94	.99	.096	7	77	1.78	89	.14	8	2.36	.03	.07	1	2	8
RP-7-3 P-12	2	72	10	95	.1	103	33	1701	4.24	8	5	ND	1	29	.6	2	2	81	.99	.084	3	80	2.54	76	.18	4	2.42	.04	.10	1	2	2
RP-7-3 P-13	2	76	8	142	.1	98	31	1624	4.66	10	5	ND	1	39	.6	2	2	83	.90	.083	5	72	2.22	82	.14	6	2.52	.03	.05	1	2	3
RP-7-3 P-14	1	164	9	121	.5	77	26	1251	4.96	20	6	ND	1	85	.5	2	2	105	1.32	.117	8	136	2.01	199	.16	6	2.64	.03	.17	1	2	16
RP-SP-1-1	3	103	17	147	.5	55	36	818	8.31	25	5	ND	1	35	.9	2	7	148	.62	.080	6	92	1.53	47	.15	2	2.96	.02	.08	1	2	20
RP-SP-1-2	3	226	2	68	.1	73	45	803	8.93	31	5	ND	1	38	.7	2	2	134	.68	.052	5	92	1.92	28	.11	2	3.55	.02	.03	1	2	49
RP-SP-1-3	2	533	8	68	.1	71	55	1840	10.60	30	5	ND	3	37	.8	2	2	110	.80	.065	32	74	1.46	32	.08	2	2.68	.02	.03	1	2	30
RP-SP-1-4	3	469	2	71	.1	62	42	1608	9.99	34	5	ND	3	42	.7	2	2	116	1.02	.066	20	78	1.50	33	.09	4	2.40	.02	.03	1	2	44
RP-SP-2-1	3	243	2	144	.2	97	68	1824	8.67	22	5	ND	2	42	.4	2	2	134	.62	.088	12	84	1.36	73	.22	2	3.96	.02	.10	1	2	17
RP-SP-2-2	2	204	2	51	.1	79	37	1311	7.17	16	5	ND	1	57	.3	2	6	119	1.00	.057	12	113	1.70	58	.16	3	3.67	.03	.10	1	2	10
RP-SP-2-3	3	335	7	79	.2	103	62	1071	7.89	24	5	ND	2	51	.7	2	2	123	.68	.067	11	77	1.58	56	.19	2	3.77	.03	.07	1	2	16
RP-Q4-3 P-25	2	65	3	110	.1	13	20	1208	6.34	7	5	ND	2	67	.8	2	6	143	1.10	.138	12	25	.70	65	.10	4	1.78	.03	.04	1	2	2
RP-Q4-3 P-26	2	59	6	109	.1	11	19	1276	6.55	9	6	ND	2	67	.6	2	2	138	1.07	.134	12	22	.76	60	.10	6	1.81	.04	.04	1	2	11
RP-Q4-3 P-27	1	44	5	80	.1	9	15	947	4.37	6	5	ND	1	70	.2	2	2	96	1.02	.095	10	15	.59	56	.10	4	1.65	.08	.09	1	2	5
RP-Q4-3 P-28	1	34	2	59	.1	5	11	777	3.53	5	5	ND	1	59	.2	2	2	73	.92	.092	9	10	.51	43	.08	5	1.39	.09	.08	1	2	4
RP-Q4-3 P-29	2	52	8	82	.1	10	16	929	5.33	8	5	ND	3	74	.2	2	2	123	1.02	.094	11	18	.62	46	.12	8	1.69	.08	.09	2	2	7
RP-Q4-3 P-30	2	59	9	79	.1	8	15	1092	4.57	7	5	ND	1	64	.2	3	2	91	.97	.098	11	13	.61	52	.11	4	1.67	.08	.09	1	2	6
RP-Q4-3 P-31	2	49	12	65	.1	7	13	892	4.21	8	5	ND	2	56	.2	3	3	77	.86	.089	10	11	.54	39	.11	3	1.41	.09	.10	1	2	7
RP-Q4-3 P-32	2	61	8	86	.1	10	17	891	7.22	10	5	ND	3	74	.4	2	2	184	.92	.087	11	23	.68	45	.16	5	1.61	.08	.09	1	2	7
STANDARD C/AU-S	20	57	39	132	7.1	70	32	1053	3.96	41	23	7	38	52	18.4	16	22	57	.48	.095	39	58	.88	187	.08	36	1.88	.06	.14	12	2	49

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-Q4-3 P-33	1	75	4	99	.1	9	12	964	5.46	5	5	ND	1	73	.2	2	2	96	.98	.094	11	18	.77	44	.14	6	1.89	.08	.11	1	2	1
RP-Q4-3 P-34	1	96	5	128	.1	7	14	1210	6.38	6	5	ND	1	61	.2	2	2	108	.83	.098	13	19	.72	48	.13	4	2.10	.05	.09	1	2	12

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-03-1 35062	1	108	15	30	.4	8	15	447	4.21	14	5	ND	1	23	.2	4	2	115	1.65	.090	4	14	1.21	23	.11	4	2.07	.05	.07	1	2	3
RP-03-1 35085	39	658	13	28	.7	22	40	328	13.85	34	5	ND	1	11	.2	3	2	103	.60	.081	10	66	.64	14	.13	2	1.47	.04	.05	1	2	294
RP-03-1 35086	2	5	3	1	.1	10	6	62	3.01	4	5	ND	2	10	.2	2	2	13	.18	.057	7	11	.06	15	.05	4	.25	.05	.05	1	2	3
RP-03-1 35087	1	165	6	37	.1	75	31	783	6.60	11	5	ND	1	23	.2	3	2	119	.98	.087	5	127	2.67	29	.15	3	2.57	.05	.20	1	2	15
RP-03-1 35088	1	339	7	53	.4	14	34	827	5.41	12	5	ND	1	12	.2	2	2	64	.90	.089	6	15	.70	18	.05	6	1.34	.03	.04	1	2	10
RP-03-1 35089	7	1736	50	142	14.8	8	46	446	22.71	41	5	2	1	19	.9	11	5	144	.52	.050	2	119	.67	15	.01	5	2.10	.01	.01	1	7	1505
RP-04-1 35157	3	723	191	69	3.2	24	29	364	7.98	50	5	ND	1	33	.2	29	2	84	.74	.133	10	68	.75	20	.21	2	1.78	.05	.05	1	2	351
RP-07-1 35231	3	18755 ✓	12	325	26.8	33	71	89	13.38	137	5	ND	1	2	2.0	7	184	9	.04	.001	2	15	.03	2	.01	2	.14	.01	.01	1	2	210
RP-07-1 35232	1	408	23	55	.9	12	13	622	4.70	22	5	ND	2	18	.2	10	2	191	1.60	.324	20	9	1.41	51	.15	2	1.91	.05	.37	1	2	53

✓ ASSAY RECOMMENDED

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: AUG 10 1990
DATE REPORT MAILED: Aug. 14/90

ASSAY CERTIFICATE

Homestake Mining (Canada) Limited PROJECT 3132 FILE # 90-2986R
1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Au** oz/t
RP-03-1 35089	.050

AU** BY FIRE ASSAY FROM 1 A.T.
- SAMPLE TYPE: Rock Pulp

SIGNED BY.......... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE REPORT MAILED: Nov. 22/90

ASSAY CERTIFICATE

Homestake Mining (Canada) Limited PROJECT 3132 FILE # 90-2986R2

SAMPLE#	Cu %	Ag** oz/t	Au** oz/t
RP-03-1 35089	.18	.52	-
RP-07-1 35231	1.90	.92	.005

AG** AND AU** BY FIRE ASSAY FROM 1 A.T.
- SAMPLE TYPE: ROCK PULP

SIGNED BY.......... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Plotted

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake Mining (Canada) Limited PROJECT 3132 File # 90-3652 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-03-2 F-6-1	1	102	23	131	.3	40	23	631	5.74	17	5	ND	1	43	.2	5	5	115	.70	.089	5	53	1.19	75	.18	6	3.82	.02	.06	4	2	15
RP-03-2 F-6-2	1	141	25	110	.2	42	25	714	7.81	24	5	ND	1	47	.2	5	2	156	.53	.043	5	64	1.47	64	.25	5	3.71	.02	.06	1	2	13
RP-03-2 F-6-3	2	186	34	107	.2	39	28	581	7.17	2	5	ND	1	75	.2	2	3	128	.73	.056	5	47	1.17	86	.29	7	5.44	.03	.06	10	2	11
RP-03-2 F-6-4	1	436	18	85	.4	23	41	846	8.15	9	5	ND	1	221	.3	8	2	139	1.50	.155	6	37	1.49	78	.07	3	9.16	.08	.04	1	2	9
RP-03-3 F-6-5	1	114	2	106	.3	22	22	938	8.17	8	5	ND	1	108	.2	6	2	213	1.96	.083	3	40	1.32	41	.15	11	3.01	.06	.06	1	2	18
RP-03-2 F-6-6	1	155	10	37	.2	113	26	488	5.99	5	5	ND	1	19	.2	5	2	125	.55	.015	4	207	3.19	16	.23	3	3.73	.02	.04	1	2	17
RP-03-2 F-6-7	2	270	22	67	.4	91	46	612	7.09	17	5	ND	1	31	.2	5	2	102	.82	.072	5	106	1.67	28	.17	7	3.18	.02	.10	1	4	65
RP-03-2 F-7-1	1	118	19	115	.9	79	25	687	6.47	26	6	ND	1	50	.4	6	2	120	.80	.072	3	87	2.13	106	.17	16	3.91	.04	.18	1	2	18
RP-03-2 F-7-2	1	143	9	73	.1	54	24	1033	5.75	11	5	ND	1	70	.2	7	2	125	1.18	.072	5	77	1.82	74	.15	7	3.27	.04	.06	1	2	9
RP-03-2 F-7-3	6	321	8	92	.4	94	47	1077	8.53	24	5	ND	1	36	.2	5	2	142	1.04	.069	3	99	1.83	48	.21	8	3.75	.02	.12	1	2	39
RP-03-2 F-7-4	2	144	23	86	.4	40	23	700	6.39	9	5	ND	1	66	.2	2	8	104	.84	.057	8	47	1.14	79	.29	4	4.35	.03	.05	3	2	8
RP-03-2 F-7-5	1	199	20	85	.2	64	34	894	7.04	21	5	ND	1	49	.2	6	2	131	.71	.084	6	80	1.64	95	.22	5	5.23	.03	.08	1	2	12
RP-03-2 F-7-6	1	237	22	79	.2	50	31	563	6.40	18	5	ND	1	55	.2	5	2	124	.70	.054	5	62	1.57	66	.15	7	6.22	.03	.05	1	3	11
RP-03-2 F-7-7	1	116	10	106	.2	28	25	610	7.68	11	5	ND	1	62	.2	2	2	177	.70	.047	3	40	1.48	58	.17	6	4.46	.02	.05	1	2	4
RP-03-2 F-7-8	1	132	20	78	.2	38	22	548	5.55	13	5	ND	1	61	.2	4	2	133	.72	.033	3	61	1.28	73	.16	4	3.34	.02	.04	1	3	5
RP-03-2 F-8-1	3	102	21	147	.6	35	18	621	8.08	14	5	ND	4	20	.2	3	2	102	.31	.137	20	56	.52	72	.58	2	6.42	.03	.05	1	2	4
RP-03-2 F-8-2	1	93	20	178	.4	33	26	588	7.55	14	5	ND	1	56	.7	6	2	171	.64	.048	5	51	1.21	67	.21	5	4.18	.02	.06	1	2	13
RP-03-2 F-8-3	2	73	34	167	.1	27	16	427	5.07	8	5	ND	1	41	.2	2	8	122	.66	.023	3	44	1.04	53	.17	6	2.86	.02	.04	8	2	5
RP-03-2 F-8-4	1	206	23	52	.1	20	28	334	5.38	7	5	ND	1	88	.4	4	2	119	.68	.099	3	28	1.32	30	.10	6	8.47	.02	.03	1	2	2
RP-03-2 F-8-5	1	296	3	67	.4	21	33	477	6.83	9	5	ND	1	92	.2	5	2	157	.79	.044	3	27	1.53	48	.11	9	6.15	.02	.07	1	2	5
RP-03-2 F-8-6	1	373	14	88	.4	35	35	746	7.12	8	5	ND	1	147	.4	4	2	155	1.47	.087	4	42	1.66	68	.12	8	6.54	.03	.06	1	2	12
RP-03-3 F-8-7	1	110	12	67	.1	15	23	617	8.35	5	5	ND	1	112	.5	4	2	253	1.67	.112	4	29	1.30	37	.12	7	3.08	.04	.03	1	2	12
RP-03-2 F-8-8	1	122	17	107	.3	59	29	933	7.27	24	5	ND	1	68	.2	5	2	143	.99	.086	6	77	2.11	105	.19	8	4.58	.03	.09	1	2	6
RP-03-2 F-9-1	1	114	16	95	.4	57	24	856	5.39	21	5	ND	1	47	.2	3	2	115	.92	.081	4	81	1.57	80	.17	10	2.85	.03	.16	1	2	5
RP-03-2 F-9-2	1	255	17	111	.5	60	35	1176	5.83	17	5	ND	1	117	.7	5	2	119	1.72	.125	5	66	1.56	48	.09	8	3.56	.03	.09	1	2	16
RP-03-2 F-9-3	1	101	17	57	.3	13	20	437	6.23	3	5	ND	1	194	.2	3	2	156	1.44	.025	3	20	1.46	58	.06	5	6.18	.02	.06	1	2	1
RP-03-2 F-9-4	1	146	7	70	.1	31	33	456	6.92	16	5	ND	1	104	.4	5	2	142	.65	.064	4	34	1.62	61	.12	6	6.48	.02	.04	1	2	5
RP-03-2 F-9-5	1	116	32	119	.4	43	23	516	6.46	21	5	ND	1	51	.3	3	2	141	.55	.034	5	66	1.30	57	.19	4	3.84	.02	.05	1	2	27
RP-03-2 F-9-6	1	94	16	115	.3	40	22	573	6.29	17	5	ND	1	51	.3	2	2	143	.64	.059	4	64	1.26	91	.18	5	3.61	.02	.05	1	2	9
RP-03-2 F-9-7	1	95	11	128	.2	36	21	553	6.54	14	5	ND	1	54	.2	2	2	145	.60	.100	4	55	1.41	65	.14	7	3.74	.02	.05	1	2	9
RP-03-2 F-10-1	1	94	14	78	.1	32	24	622	6.65	12	5	ND	1	57	.9	4	2	183	.64	.108	4	66	1.41	48	.16	6	4.93	.02	.04	1	4	5
RP-03-2 F-10-2	1	135	11	108	.4	32	25	1410	6.16	9	5	ND	1	84	.4	5	2	171	1.17	.074	6	68	1.50	122	.14	4	3.55	.03	.04	1	2	6
RP-03-2 F-10-3	1	164	21	92	.2	50	28	513	5.97	24	5	ND	1	58	.6	3	3	140	.67	.078	4	71	1.42	63	.15	4	4.38	.02	.07	1	2	16
RP-03-2 F-10-4	1	113	10	85	.2	45	28	588	6.94	20	5	ND	1	53	.2	5	2	145	.57	.041	4	63	1.37	81	.20	7	4.19	.03	.07	2	2	6
RP-03-2 F-10-5	1	278	16	49	.4	26	32	450	6.54	9	5	ND	1	174	.2	5	2	138	.94	.017	5	35	1.99	81	.10	4	6.08	.03	.05	1	2	14
RP-03-2 F-10-6	1	163	7	72	.2	62	25	627	5.48	15	5	ND	1	60	.2	2	2	105	.86	.065	7	66	1.59	70	.22	2	3.33	.03	.09	1	2	12
STANDARD C/AU-S	19	61	39	132	7.1	73	31	1055	3.97	41	18	6	37	53	18.4	15	21	57	.52	.094	38	60	.91	180	.07	38	1.89	.06	.14	13	2	48

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Soil -80 Mesh AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 20 1990 **DATE REPORT MAILED:** Aug 23/90. **SIGNED BY**..........D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-03-2 F-10-7	1	199	17	42	.1	40	21	619	5.39	9	8	ND	1	77	.3	2	2	126	.95	.079	4	50	1.32	61	.12	2	3.14	.04	.06	3	2	12
RP-03-2 F-11-1	1	100	21	42	.1	32	24	884	5.79	3	5	ND	1	63	.2	2	2	105	.87	.081	4	46	1.24	28	.09	2	3.58	.03	.06	3	2	32
RP-03-2 F-11-2	1	126	16	95	.2	51	29	642	7.23	14	8	ND	1	63	.2	3	2	143	.66	.038	5	64	1.72	54	.20	2	4.46	.03	.08	1	2	12
RP-03-2 F-11-3	1	134	6	65	.1	37	22	571	5.39	8	8	ND	1	61	.2	2	2	140	.87	.105	5	54	1.15	63	.12	2	3.11	.02	.08	1	2	15
RP-03-2 F-11-4	1	90	14	70	.1	29	26	594	6.37	5	6	ND	1	74	.3	2	2	150	.82	.038	4	41	.92	53	.11	2	3.87	.02	.08	1	2	4
RP-03-2 F-11-5	1	114	12	96	.1	42	23	569	6.25	15	9	ND	1	51	.2	2	2	140	.68	.062	6	64	1.12	93	.21	2	3.31	.03	.06	2	2	18
RP-03-2 F-11-6	1	69	5	64	.1	32	22	470	6.12	7	9	ND	1	53	.5	2	2	177	.63	.066	4	80	1.24	59	.12	2	3.23	.02	.03	1	2	7
RP-03-2 F-11-7	1	68	7	75	.1	28	21	484	6.38	7	10	ND	1	56	.2	2	2	174	.70	.095	4	63	1.18	61	.13	2	3.64	.02	.04	1	2	7
RP-03-2 F-12-1	1	58	6	186	.2	27	51	6028	6.53	8	5	ND	1	51	.8	2	2	154	.53	.113	8	47	.82	149	.15	2	2.80	.02	.05	3	8	6
RP-03-2 F-12-2	1	55	13	107	.1	17	13	665	6.15	2	7	ND	1	48	.2	2	2	167	.42	.084	6	43	.66	93	.21	2	2.36	.02	.04	1	2	5
RP-03-2 F-12-3	1	49	16	134	.1	15	18	1106	5.92	5	5	ND	1	42	.2	2	2	161	.40	.066	8	37	.50	93	.31	2	1.86	.02	.05	1	2	11
RP-03-2 F-12-4	1	61	10	88	.2	23	17	448	5.57	9	10	ND	1	45	.4	2	2	137	.44	.072	4	45	.92	58	.15	2	3.07	.02	.06	2	2	9
RP-03-2 F-12-5	1	454	16	85	.1	51	25	948	5.94	10	5	ND	1	75	.3	2	2	140	1.42	.122	6	87	1.63	62	.11	2	3.12	.03	.12	2	6	36
RP-03-2 F-12-6	1	138	7	76	.2	96	31	579	5.55	2	9	ND	1	39	.6	2	2	120	.53	.066	5	143	1.72	41	.23	2	2.32	.02	.08	2	2	13
RP-03-2 F-12-7	3	109	36	167	.8	65	29	443	7.26	20	7	ND	1	53	.5	4	2	135	.88	.044	6	89	1.31	31	.22	2	3.34	.04	.08	1	2	40
STANDARD C/AU-S	20	63	40	133	7.6	72	32	1057	3.98	41	20	7	37	52	18.4	15	18	59	.52	.096	39	61	.89	182	.08	32	1.89	.06	.13	12	2	48

[illegible] E. [illegible]TINGS ST. VANCOUVER B.C. V6A [illegible] PHONE([illegible])253-[illegible]158 FAX(60[illegible])253-1716

Plotted

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake Mining (Canada) Limited PROJECT 3132 File # 90-3653 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-01-2 PS-1	1	83	10	86	.1	58	25	726	5.93	17	5	ND	2	53	.2	2	2	110	.71	.068	9	79	1.54	115	.30	2	3.82	.03	.05	1	3	12
RP-01-2 PS-2	1	62	9	106	.1	71	22	645	4.94	9	5	ND	1	44	.2	2	3	114	.83	.071	3	63	1.90	69	.17	2	3.02	.04	.06	1	2	27
RP-01-2 PS-3	1	57	2	27	.1	11	12	399	3.54	6	5	ND	2	54	.2	3	2	104	.91	.132	11	26	.58	40	.09	4	1.29	.04	.03	1	2	8
RP-01-2 PS-4	1	92	4	45	.1	35	16	455	4.24	13	5	ND	1	40	.2	2	2	106	.72	.057	4	44	1.01	98	.12	5	2.69	.03	.04	2	2	22
RP-01-2 PS-5	1	108	6	52	.1	29	21	486	5.07	13	5	ND	2	43	.2	2	2	131	.54	.110	5	38	1.00	75	.11	3	3.28	.02	.04	1	2	8
RP-01-2 PS-6	1	56	10	100	.1	33	17	426	5.03	9	5	ND	1	33	.2	2	2	124	.51	.088	5	49	.98	70	.19	2	2.79	.02	.05	1	2	13
RP-01-2 PS-7	1	104	8	92	.1	62	25	806	4.79	8	5	ND	1	30	.2	2	2	118	.62	.071	4	76	1.51	61	.18	4	3.60	.03	.04	1	2	19
RP-01-2 PS-8	2	73	8	90	.2	54	25	534	5.95	13	5	ND	3	27	.2	3	2	102	.47	.135	10	56	1.03	101	.39	2	3.28	.04	.06	1	8	8
RP-01-2 PS-9	1	76	6	50	.1	40	17	506	4.57	8	5	ND	1	42	.2	2	2	115	.68	.058	5	55	1.24	78	.17	2	2.94	.03	.05	1	2	7
RP-01-2 PS-10	1	68	7	61	.1	30	18	351	5.11	10	5	ND	2	37	.5	2	2	110	.48	.078	8	43	.79	66	.26	2	4.74	.03	.04	1	3	18
RP-01-2 PS-11	1	65	2	70	.4	43	22	561	5.24	7	5	ND	1	30	.4	2	2	112	.60	.126	4	62	1.18	60	.19	3	2.86	.03	.04	2	2	6
RP-01-2 PS-12	2	59	9	65	.1	33	20	465	5.41	8	5	ND	2	26	.2	2	8	110	.40	.191	7	45	.76	52	.26	2	3.28	.02	.04	1	2	6
RP-01-2 PS-13	1	130	3	48	.1	57	25	643	5.49	19	5	ND	1	44	.2	2	2	141	.80	.097	4	66	1.51	50	.14	4	2.84	.03	.06	2	2	31
RP-01-2 PS-14	1	62	2	90	.1	49	25	993	5.07	11	5	ND	1	40	.6	2	2	113	.63	.109	4	70	1.32	65	.16	3	3.01	.02	.05	1	2	8
RP-01-2 PS-15	2	50	2	159	.4	46	26	565	6.16	11	5	ND	2	26	.2	2	2	122	.45	.163	7	62	1.10	62	.26	2	2.93	.03	.04	1	2	13
RP-01-2 PS-16	1	61	8	105	.1	32	22	414	8.46	10	5	ND	2	31	.7	2	3	247	.42	.199	7	77	.72	51	.19	4	3.72	.02	.03	2	3	8
RP-01-2 PS-17	1	119	5	54	.1	51	24	583	5.40	10	5	ND	1	40	.2	2	2	117	.86	.071	4	78	1.36	59	.12	3	3.47	.03	.05	1	2	31
RP-01-2 PS-18	1	63	6	67	.1	47	20	567	4.38	10	5	ND	1	48	.2	2	2	108	.96	.030	4	50	1.48	71	.18	4	3.04	.03	.04	1	2	6
RP-01-2 PS-19	1	63	2	68	.1	45	18	428	4.60	9	5	ND	1	36	.3	2	2	103	.69	.074	5	50	1.07	89	.21	2	2.76	.03	.04	1	2	70
RP-01-2 PS-20	2	83	5	72	.1	55	22	516	5.34	12	5	ND	1	32	.5	2	2	121	.60	.063	7	56	1.30	98	.27	4	3.25	.04	.06	1	2	5
RP-01-2 PS-21	1	92	2	70	.1	45	20	854	4.50	10	5	ND	1	50	.2	2	2	112	1.07	.129	6	59	1.37	69	.11	3	2.27	.03	.06	1	2	8
RP-01-2 PS-22	2	50	2	88	.2	50	23	984	6.71	9	5	ND	2	27	.9	2	2	113	.43	.199	9	58	1.08	75	.44	2	3.00	.03	.06	1	3	4
RP-01-2 PS-23	2	71	6	87	.2	63	25	587	5.66	11	5	ND	1	30	.2	2	2	110	.55	.130	6	60	1.33	60	.32	4	3.13	.03	.05	1	2	6
RP-01-2 PS-24	1	68	4	33	.1	28	14	404	3.64	6	5	ND	1	56	.2	2	2	98	1.11	.066	5	37	.95	70	.13	3	2.48	.04	.04	2	2	10
RP-01-2 PS-25	1	77	4	76	.2	35	22	656	5.59	5	5	ND	1	35	.2	2	2	128	.65	.181	5	53	.99	47	.16	2	2.99	.03	.05	1	2	11
RP-01-2 PS-26	1	119	2	43	.1	39	18	572	4.54	10	5	ND	1	54	.2	2	2	119	1.05	.071	6	51	1.17	51	.12	6	2.17	.03	.08	2	2	12
RP-01-2 PS-27	1	95	2	62	.2	52	22	721	5.07	13	5	ND	1	36	.2	2	4	112	.61	.116	4	61	1.26	60	.20	3	2.87	.03	.06	2	2	15
RP-01-3 P-1	1	109	2	61	.1	25	24	1058	5.77	11	5	ND	1	113	.2	2	2	169	1.89	.102	5	30	1.41	48	.12	8	3.03	.05	.04	1	2	14
RP-01-3 P-2	1	42	2	44	.1	14	9	494	2.29	3	5	ND	1	56	.2	2	2	62	1.09	.099	6	22	.50	39	.08	5	1.24	.03	.03	2	2	58
RP-01-3 P-3	1	112	2	66	.1	27	24	1257	5.62	5	5	ND	1	115	.2	2	2	156	2.01	.096	5	31	1.52	52	.12	5	3.09	.05	.05	1	2	9
RP-01-3 P-4	1	110	2	81	.1	41	26	1092	5.82	9	5	ND	1	94	.5	2	2	169	1.82	.091	5	48	1.67	46	.14	4	2.79	.05	.06	1	2	49
RP-01-3 P-5	1	70	2	52	.1	39	18	805	4.35	8	5	ND	1	84	.2	2	2	128	1.99	.075	4	45	1.58	39	.15	6	2.45	.09	.09	1	2	3
RP-02-2 A-15-1	2	117	3	82	.1	52	22	701	5.58	28	5	ND	1	34	.3	2	4	129	.73	.085	7	71	1.73	94	.15	6	3.84	.03	.08	1	2	4
RP-02-2 A-15-2	2	132	11	90	.4	48	21	602	5.94	30	5	ND	1	32	.2	2	2	140	.47	.034	5	74	1.50	79	.17	8	3.90	.03	.10	1	2	17
RP-02-2 A-15-3	2	275	2	83	.1	38	21	1150	5.99	18	5	ND	1	35	.2	2	2	115	.91	.093	8	51	1.15	79	.09	4	2.80	.02	.06	1	2	10
RP-02-2 A-15-4	1	84	2	66	.2	45	21	519	5.09	32	5	ND	1	36	.2	2	2	116	.69	.062	4	53	1.38	114	.13	5	3.32	.02	.06	2	2	14
STANDARD C/AU-S	19	60	39	131	6.9	72	32	1053	3.97	41	19	7	38	53	18.6	15	19	56	.58	.095	39	59	.90	182	.07	38	1.89	.06	.14	11	2	49

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
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- SAMPLE TYPE: Soil -80 Mesh AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 20 1990 DATE REPORT MAILED: Aug 23/90. SIGNED BY C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-02-2 A-15-5	2	130	11	101	.1	98	29	637	6.29	36	5	ND	1	45	.5	2	4	135	.64	.053	5	100	2.13	115	.25	4	4.47	.03	.07	2	2	6
RP-02-2 A-16-1	2	151	10	98	.4	57	26	813	6.21	29	5	ND	1	40	.7	2	2	139	.65	.060	8	73	1.71	90	.15	9	4.21	.03	.10	1	2	7
RP-02-2 A-16-2	1	349	12	99	.3	71	23	783	5.92	43	5	ND	1	58	.5	3	2	126	1.05	.050	9	75	1.61	74	.20	9	3.62	.04	.08	1	2	15
RP-02-2 A-16-3	2	105	9	112	.2	67	26	799	6.04	40	5	ND	1	36	.2	2	2	140	.76	.102	5	83	1.84	106	.18	6	3.82	.03	.12	1	2	13
RP-02-2 A-16-4	1	84	15	97	.2	52	20	539	5.93	25	5	ND	1	34	.7	3	2	125	.70	.054	5	71	1.52	78	.22	6	3.14	.04	.05	1	2	3
RP-02-2 A-17-1	2	160	4	80	.1	50	18	726	5.60	21	5	ND	1	48	.2	2	2	131	.98	.063	6	77	1.56	91	.16	6	3.46	.03	.08	1	2	6
RP-02-2 A-17-2	2	129	9	84	.2	63	26	605	7.15	37	5	ND	1	33	.4	2	3	155	.58	.064	5	79	1.89	124	.22	4	4.36	.03	.08	1	2	8
RP-02-2 A-17-3	1	107	4	57	.1	84	23	632	4.85	12	5	ND	1	48	.6	3	3	122	.89	.038	6	89	2.31	67	.21	5	3.14	.04	.04	1	2	8
RP-02-2 A-17-4	1	91	10	83	.2	52	18	615	4.03	8	5	ND	1	56	.3	2	2	103	1.40	.097	6	69	1.62	69	.18	5	2.26	.04	.08	1	2	5
RP-02-2 A-18-1	1	105	4	63	.1	46	20	585	4.95	28	5	ND	1	38	.2	2	2	116	.70	.089	5	59	1.26	70	.15	4	2.98	.03	.09	1	2	8
RP-02-2 A-18-2	1	98	3	103	.2	70	28	888	5.93	28	5	ND	1	36	.6	2	3	131	.77	.128	6	79	1.74	84	.19	5	3.49	.03	.08	1	2	9
RP-02-2 A-18-3	1	130	2	76	.1	76	22	611	6.31	26	5	ND	1	38	.3	2	2	150	.74	.064	4	92	1.98	122	.16	5	4.32	.03	.06	1	2	4
RP-02-2 A-18-4	1	67	6	57	.2	54	17	502	4.55	15	5	ND	1	47	.7	2	2	122	.89	.032	4	70	1.55	76	.18	5	2.61	.03	.05	1	2	44
RP-02-2 A-18-5	1	85	2	62	.1	76	29	960	5.62	16	5	ND	1	47	.7	2	2	132	1.18	.054	4	76	2.44	60	.23	9	3.39	.04	.08	2	2	3
RP-02-2 A-19-1	1	64	3	91	.1	37	17	541	4.94	20	5	ND	1	39	.2	3	2	109	.66	.113	6	50	1.04	127	.17	5	3.11	.03	.06	1	2	3
RP-02-2 A-19-2	1	96	9	76	.1	61	22	710	5.62	21	5	ND	1	45	.2	2	2	135	.83	.069	5	78	1.82	120	.17	5	3.76	.03	.07	1	2	14
RP-02-2 A-19-3	1	126	5	107	.2	47	23	973	6.44	12	5	ND	1	35	1.6	2	2	138	.88	.041	7	52	1.86	90	.49	2	3.85	.05	.06	1	2	4
RP-02-2 A-19-4	1	102	2	63	.1	139	31	621	5.98	13	5	ND	1	40	.8	2	2	133	.94	.018	3	131	3.05	43	.19	5	3.75	.02	.03	1	2	3
RP-02-2 A-19-5	1	141	7	73	.1	88	24	835	4.91	14	5	ND	1	58	.2	2	2	113	1.74	.084	7	94	2.34	84	.19	6	2.82	.04	.07	1	2	3
RP-02-2 A-20-1	1	166	10	152	.2	33	19	1263	6.27	10	5	ND	1	37	.6	2	2	96	.94	.133	15	33	.56	77	.30	3	2.75	.03	.04	1	2	6
RP-02-2 A-20-2	1	81	2	59	.1	69	15	402	3.96	3	5	ND	1	42	.3	2	2	92	.97	.018	9	62	1.45	64	.28	5	2.51	.03	.03	1	2	6
RP-02-2 A-20-3	1	83	12	78	.2	107	29	530	7.10	14	5	ND	1	36	.8	2	2	165	.80	.023	4	110	2.61	62	.23	3	4.15	.02	.04	1	2	10
RP-02-2 A-20-4	1	95	2	77	.1	103	28	745	7.02	15	5	ND	2	37	1.4	2	2	118	.81	.088	11	92	1.91	83	.54	2	3.50	.05	.04	1	2	10
RP-02-2 A-20-5	1	296	7	67	.3	60	17	638	4.28	17	5	ND	1	61	.5	3	2	106	1.53	.068	9	66	1.40	80	.16	2	2.45	.04	.07	1	2	4
RP-02-2 A-20-6	1	63	2	81	.2	40	20	476	7.58	9	5	ND	1	42	1.1	2	2	210	.72	.126	5	69	1.08	47	.22	3	2.17	.03	.05	1	2	4
RP-02-2 A-20-7	2	100	10	78	.1	60	24	505	5.81	11	5	ND	1	54	.2	2	2	134	.65	.065	5	72	1.43	55	.22	2	4.03	.03	.07	1	2	9
RP-02-2 A-21-1	1	132	6	89	.1	79	21	824	5.44	21	5	ND	1	55	.2	2	2	118	1.43	.103	9	87	1.66	71	.16	9	2.43	.05	.10	1	2	9
RP-02-2 A-21-2	1	78	4	71	.1	85	24	654	5.98	19	5	ND	1	38	.5	2	2	136	.83	.027	4	91	1.82	79	.16	5	3.65	.02	.05	1	2	2
RP-02-2 A-21-3	2	90	7	69	.3	102	26	534	6.14	17	5	ND	1	37	1.1	2	2	140	.66	.037	5	90	1.99	86	.25	6	3.99	.03	.05	1	2	8
RP-02-2 A-21-4	1	153	2	65	.1	121	25	611	5.46	13	5	ND	1	44	.4	2	2	119	1.00	.021	7	100	2.55	56	.27	7	3.61	.03	.04	1	2	7
RP-02-2 A-21-5	1	160	5	68	.1	67	22	1598	4.23	12	5	ND	1	95	.9	2	2	100	2.56	.076	7	78	1.64	132	.13	7	2.54	.04	.06	1	2	8
RP-02-2 A-21-6	1	110	2	45	.1	41	17	632	4.24	10	5	ND	1	51	.2	2	2	100	.91	.065	9	49	1.15	66	.20	4	2.40	.04	.03	1	2	37
RP-02-2 A-21-7	1	87	5	56	.1	55	21	823	5.16	13	5	ND	1	60	.2	2	2	136	1.16	.052	5	59	1.81	55	.18	7	3.14	.04	.06	1	2	26
RP-02-2 A-22-1	1	76	4	84	.1	70	21	620	5.13	23	5	ND	1	38	.3	2	2	120	.77	.068	5	93	1.51	79	.20	4	2.76	.03	.08	1	2	5
RP-02-2 A-22-2	1	69	9	136	.2	59	28	930	5.97	13	5	ND	1	30	.8	3	2	129	.78	.072	7	76	1.52	63	.27	2	2.67	.02	.09	1	2	3
RP-02-2 A-22-3	2	61	2	112	.2	88	28	999	6.02	7	5	ND	2	33	1.8	2	2	97	.92	.162	11	71	1.41	69	.50	4	2.71	.04	.05	1	2	1
STANDARD C/AU-S	19	60	40	131	7.1	73	32	1052	3.97	39	20	7	39	52	18.5	15	22	56	.52	.096	38	56	.89	182	.07	37	1.89	.06	.13	13	2	50

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-02-2 A-22-4	1	116	13	68	.2	84	20	636	4.48	9	5	ND	1	47	.2	2	2	96	1.54	.080	7	79	2.20	65	.16	6	2.50	.03	.07	1	2	7
RP-02-2 A-22-5	1	73	5	61	.1	60	18	572	4.00	6	5	ND	1	49	.3	2	3	95	1.22	.029	4	71	1.92	56	.18	4	2.39	.03	.04	1	2	4
RP-02-2 A-22-6	1	60	13	68	.5	31	19	568	5.72	5	5	ND	1	44	.2	2	2	153	.85	.069	7	45	.85	43	.18	3	2.61	.02	.05	1	2	45
RP-02-2 A-22-7	1	112	8	78	.1	88	25	758	5.80	13	5	ND	1	38	1.2	2	2	127	.76	.061	9	96	2.26	77	.31	2	3.36	.03	.06	1	2	1
RP-02-2 A-23-1	2	92	14	210	.1	59	25	951	6.85	30	5	ND	2	32	.2	2	2	124	.65	.128	8	66	1.39	117	.25	3	3.52	.02	.09	1	2	1
RP-02-2 A-23-2	1	81	11	180	.4	66	24	806	6.36	19	5	ND	1	39	.3	2	2	125	.76	.102	6	79	1.81	98	.22	5	3.98	.02	.07	1	2	5
RP-02-2 A-23-3	1	68	6	69	.1	61	18	551	4.68	13	5	ND	1	38	.2	2	2	106	.94	.055	5	71	1.67	69	.18	2	2.65	.03	.05	1	2	4
RP-02-2 A-23-4	1	61	6	47	.3	38	14	462	4.07	7	5	ND	1	49	.3	2	4	107	1.20	.090	6	51	1.17	52	.15	7	1.79	.03	.04	1	2	6
RP-02-2 A-23-5	1	133	8	66	.1	49	23	835	4.70	10	5	ND	1	84	.2	2	2	113	1.21	.102	8	58	1.49	132	.15	4	2.43	.04	.07	1	2	13
RP-02-2 A-23-6	1	120	10	66	.1	49	20	735	4.68	12	5	ND	1	66	.4	2	2	119	1.52	.112	7	61	1.53	70	.14	5	2.36	.04	.07	1	2	5
RP-02-2 A-23-7	1	105	8	75	.2	81	23	751	4.46	17	5	ND	1	51	.5	2	2	104	1.37	.097	5	87	2.18	68	.15	4	2.54	.03	.06	1	2	3
RP-02-2 A-24-1	1	71	11	84	.3	62	21	455	5.13	12	5	ND	2	31	.2	2	2	103	.62	.054	10	75	1.12	89	.33	2	2.82	.03	.04	1	2	6
RP-02-2 A-24-2	1	88	2	57	.1	70	22	483	5.41	15	5	ND	1	38	.4	3	2	116	.59	.064	6	73	1.32	73	.21	4	3.27	.02	.05	1	2	3
RP-02-2 A-24-3	1	99	10	47	.2	89	24	500	5.46	15	5	ND	1	34	.2	2	5	128	.80	.035	3	78	1.94	58	.19	3	3.38	.03	.03	1	2	20
RP-02-2 A-24-4	1	85	9	66	.2	71	24	540	5.22	14	5	ND	1	38	.3	2	2	126	.70	.094	4	87	1.68	107	.18	3	3.36	.03	.05	1	2	5
RP-02-2 A-24-5	1	140	15	81	.2	92	28	745	5.75	21	5	ND	1	46	.8	2	5	130	.96	.065	7	108	2.05	70	.16	3	3.37	.03	.10	1	2	3
RP-02-2 A-25-1	1	106	10	61	.2	50	22	880	5.16	22	5	ND	1	32	.2	2	4	121	.82	.032	7	76	1.45	59	.16	2	2.68	.03	.22	1	2	5
RP-02-2 A-25-2	1	127	10	60	.1	62	23	696	5.20	14	5	ND	1	31	.2	2	2	117	.92	.064	4	74	1.45	60	.16	3	2.79	.02	.06	1	2	3
RP-02-2 A-25-3	1	74	10	74	.3	54	24	848	5.45	17	5	ND	1	27	.5	2	2	114	.62	.084	6	65	1.26	69	.25	2	2.56	.03	.07	1	2	6
RP-02-2 A-25-4	2	55	20	104	.1	46	26	747	6.29	10	5	ND	1	32	.2	2	2	126	.60	.210	9	53	.95	70	.33	3	3.05	.03	.07	1	2	7
RP-03-2 F-13-1	2	76	8	88	.3	43	19	476	6.11	14	5	ND	1	43	.2	2	2	146	.62	.049	5	65	1.35	66	.26	2	2.92	.02	.09	1	2	9
RP-03-2 F-13-2	1	271	12	66	.5	36	29	727	6.33	5	5	ND	1	83	.4	2	4	146	.87	.145	6	60	1.56	66	.12	5	5.32	.02	.07	1	2	147
RP-03-2 F-13-3	2	134	20	107	.6	45	29	834	5.87	18	5	ND	1	59	.7	2	2	129	.72	.072	5	53	1.25	81	.21	2	3.46	.02	.09	1	2	14
RP-03-2 F-13-4	1	69	13	89	.2	34	27	939	7.31	9	5	ND	1	63	.4	2	2	218	.76	.054	4	82	1.18	78	.19	2	2.86	.02	.12	1	2	2
RP-03-2 F-13-5	1	118	15	104	.3	24	20	778	6.11	10	5	ND	1	57	.4	2	2	144	.70	.079	16	47	.95	56	.30	2	3.40	.03	.04	1	2	2
RP-03-2 F-13-6	2	70	19	101	.1	26	18	600	7.01	9	5	ND	2	34	.2	2	2	142	.36	.067	10	45	.75	60	.45	3	4.03	.02	.04	1	2	4
RP-03-2 F-14-1	1	100	4	63	.2	28	23	670	6.00	8	5	ND	1	80	.2	2	2	176	.87	.077	9	55	1.27	77	.15	2	3.69	.03	.03	1	2	4
RP-03-2 F-14-2	1	196	4	69	.1	29	17	446	4.87	9	5	ND	1	62	.2	2	5	108	.66	.130	7	29	1.02	92	.10	4	4.58	.02	.08	1	2	6
RP-03-2 F-14-3	1	141	7	125	.2	28	27	1078	6.18	13	5	ND	1	64	.6	2	2	147	1.31	.102	5	37	1.36	73	.14	8	3.33	.02	.11	1	2	16
RP-03-2 F-14-4	2	94	15	146	.3	24	24	791	6.34	10	5	ND	1	44	.2	2	2	137	.50	.138	8	34	1.01	77	.29	2	4.44	.02	.08	1	2	2
RP-03-2 F-14-5	2	69	10	91	.3	22	19	515	6.47	8	5	ND	1	37	.8	2	2	143	.46	.062	9	40	.80	66	.35	2	2.92	.02	.05	1	2	8
RP-03-2 F-14-6	2	94	15	87	.4	30	19	693	5.60	8	5	ND	1	43	.2	2	2	140	.72	.058	6	46	1.07	94	.17	4	2.60	.02	.05	1	2	11
RP-03-2 F-14-7	3	78	13	106	.3	52	21	558	5.86	20	5	ND	1	48	.2	2	2	137	.83	.039	4	64	1.72	91	.17	4	3.27	.02	.07	1	2	1
RP-03-2 F-14-8	3	340	18	110	.3	79	48	947	6.30	21	5	ND	1	88	.4	2	2	127	.97	.093	5	61	1.33	78	.10	5	4.12	.02	.08	1	2	7
RP-04-2 A-14-1	1	143	9	79	.2	63	24	679	5.80	33	5	ND	1	32	.2	3	2	138	.52	.088	4	89	1.78	108	.14	6	4.08	.03	.08	1	2	7
RP-04-2 A-14-2	1	131	9	75	.2	61	24	867	5.44	23	5	ND	1	46	.2	2	2	120	.70	.057	5	73	1.71	96	.12	8	3.63	.03	.09	1	2	8
STANDARD C/AU-S	19	59	40	132	7.1	73	32	1052	3.99	40	19	7	38	53	18.6	15	20	55	.52	.098	38	56	.89	182	.07	34	1.89	.06	.14	11	2	49

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-04-2 A-14-3	2	181	9	81	.1	46	17	782	4.66	13	5	ND	1	68	.2	2	2	107	1.51	.081	10	67	1.40	98	.14	2	2.75	.04	.09	1	2	10
RP-04-2 A-14-4	1	166	14	96	.1	73	27	929	5.76	35	5	ND	1	44	.2	3	2	134	.69	.062	7	95	2.13	81	.16	7	4.00	.04	.08	1	2	15
RP-04-2 A-14-5	2	126	10	86	.2	102	28	790	5.75	20	5	ND	1	41	.5	2	2	127	.70	.052	5	103	2.14	91	.23	3	3.95	.04	.07	1	2	74
RP-05-2 F-15-1	1	194	13	61	.1	13	33	6707	5.45	13	5	ND	1	102	.4	2	2	135	1.11	.173	6	20	2.26	98	.05	2	7.84	.02	.06	1	4	6
RP-05-2 F-15-2	2	48	11	91	.1	35	24	717	7.05	7	5	ND	3	33	1.4	2	2	129	.31	.120	12	53	.90	44	.47	2	4.90	.03	.05	1	2	6
RP-05-2 F-15-3	1	65	8	73	.2	16	21	502	7.84	11	5	ND	1	44	.7	2	2	243	.55	.176	6	25	.75	66	.24	2	6.02	.02	.04	1	2	12
RP-05-2 F-15-4	2	118	2	68	.3	36	23	561	6.97	14	5	ND	1	62	.8	2	2	174	.64	.062	5	55	1.42	52	.17	3	4.00	.03	.05	1	2	52
RP-05-2 F-15-5	2	216	20	71	.2	28	21	636	6.75	9	5	ND	1	47	.7	2	2	169	.46	.051	5	50	1.11	72	.19	3	3.62	.02	.05	1	2	31
RP-05-2 F-15-6	3	481	7	119	.5	60	22	888	5.68	20	5	ND	1	37	.6	2	2	123	.68	.072	8	87	1.66	96	.12	3	4.04	.03	.08	1	2	10
RP-05-2 F-15-7	1	122	10	81	.1	37	25	787	6.00	13	5	ND	1	63	.6	2	2	153	.77	.129	7	50	1.40	93	.13	2	3.72	.02	.07	1	2	225
RP-05-3 F-16-1	2	411	14	85	.2	21	36	800	6.59	6	5	ND	1	138	.7	2	2	174	1.69	.101	7	38	1.23	53	.11	4	3.19	.03	.04	1	2	75
RP-05-2 F-16-2	5	502	20	146	.9	41	27	815	6.63	11	5	ND	1	52	.8	2	2	146	.54	.050	6	56	1.31	127	.17	2	4.47	.02	.05	1	2	59
RP-05-2 F-16-3	1	283	12	62	.4	33	25	528	5.69	12	5	ND	1	75	.3	2	2	159	.97	.068	3	51	1.48	69	.12	5	6.42	.03	.05	1	2	21
RP-05-2 F-16-4	1	123	9	84	.1	51	30	548	6.67	13	5	ND	1	47	.4	2	2	159	.57	.095	5	85	1.41	54	.18	2	3.79	.02	.06	1	2	11
RP-05-2 F-16-5	2	175	7	46	.3	15	31	583	7.57	8	5	ND	1	99	1.6	2	2	252	.91	.094	5	26	1.11	55	.11	6	3.73	.03	.04	1	2	31
RP-05-2 F-16-6	1	49	9	104	.1	25	20	791	6.22	3	5	ND	1	76	1.0	2	2	161	.90	.244	6	54	1.12	51	.14	4	2.82	.03	.08	1	2	30
RP-05-2 F-16-7	1	104	12	88	.1	15	25	1292	7.14	6	5	ND	1	135	1.1	2	2	217	1.48	.129	7	22	1.86	58	.11	6	6.35	.04	.09	1	3	3
RP-05-2 F-17-1	1	103	9	49	.1	24	22	649	7.93	9	5	ND	1	63	1.0	2	2	254	.83	.087	7	74	.85	41	.12	6	2.39	.03	.03	1	2	22
RP-05-2 F-17-2	1	130	6	50	.1	14	32	426	8.99	7	5	ND	1	74	.5	2	4	316	.81	.071	3	17	.97	42	.13	5	3.62	.02	.04	1	2	14
RP-05-2 F-17-3	1	159	9	60	.1	20	34	473	6.92	5	5	ND	1	95	.2	2	4	194	.85	.073	5	24	1.28	62	.16	5	5.50	.03	.04	1	2	38
RP-05-2 F-17-4	2	202	5	58	.2	19	31	557	6.29	3	5	ND	1	90	.5	2	3	167	.73	.058	4	22	1.40	131	.11	3	5.87	.03	.03	1	2	25
RP-05-2 F-17-5	2	114	12	52	.3	8	24	349	5.42	2	5	ND	1	64	.9	2	2	144	.91	.139	5	18	.58	30	.09	5	6.73	.02	.03	2	2	136
RP-05-2 F-17-6	2	321	8	68	.4	29	28	628	6.63	11	5	ND	1	84	1.1	2	2	167	.86	.097	7	44	1.22	102	.16	2	4.86	.02	.06	1	2	44
STANDARD C/AU-S	19	60	40	131	7.1	72	31	1052	3.98	39	20	7	38	53	18.4	15	18	56	.52	.096	38	57	.89	180	.07	36	1.88	.06	.14	11	2	48

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

Trenches

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake Mining (Canada) Limited PROJECT 3132 File # 90-3657 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
35063	1	164	3	61	.3	12	15	720	5.44	2	5	ND	1	44	.2	4	2	142	4.09	.110	4	16	1.46	18	.17	11	3.41	.10	.09	1	2	3
35093	2	52	5	27	.2	6	16	356	4.52	2	5	ND	1	24	.2	3	2	107	1.95	.116	2	12	1.01	10	.12	9	2.31	.06	.06	1	2	32
35161	1	169	3	59	.1	26	15	727	5.68	11	5	ND	1	15	.6	6	2	154	2.30	.188	7	19	1.32	17	.35	9	2.00	.05	.05	1	2	13
35162	2	153	2	106	.2	20	15	780	5.02	6	5	ND	1	17	.2	2	2	100	1.91	.119	11	36	1.10	29	.27	10	1.48	.04	.08	2	2	8
35163	1	239	6	65	.2	25	16	677	4.61	5	5	ND	1	21	.2	4	2	119	1.43	.176	9	25	1.29	38	.18	6	2.14	.05	.06	1	2	3
35233	1	320	10	41	.3	4	16	500	5.52	7	5	ND	1	31	.4	3	2	69	1.64	.088	5	8	.70	29	.13	6	2.53	.05	.08	1	2	7
35234	23	813	10	24	.8	6	36	526	10.86	323	5	ND	1	11	.2	2	2	63	.34	.067	5	8	.25	52	.10	5	.97	.02	.08	1	2	25
35235	4	844	3	56	.4	6	24	618	6.49	3	5	ND	1	18	.3	5	2	90	1.19	.096	6	13	1.10	24	.14	5	2.46	.05	.08	1	2	8
35288	1	118	2	49	.2	7	16	950	5.32	20	5	ND	1	24	.3	2	2	105	3.55	.089	4	8	.83	14	.07	9	2.17	.02	.09	1	2	5
35289	1	107	5	83	.2	25	19	2010	10.11	40	5	ND	1	33	.9	7	2	71	3.85	.063	6	47	1.88	19	.01	6	.73	.01	.06	1	2	22
35290	1	143	2	62	.2	23	23	1227	6.20	22	5	ND	1	21	.3	4	2	108	2.17	.096	5	10	.62	22	.04	11	1.75	.03	.13	1	2	8
35291	1	108	4	61	.3	36	26	1564	8.23	75	5	ND	1	36	.5	6	2	55	5.57	.055	5	64	2.86	9	.01	4	.77	.01	.04	1	2	26
35292	1	102	2	71	.1	8	16	1025	5.81	21	5	ND	1	17	.5	3	2	94	3.45	.085	4	9	.57	16	.02	9	2.17	.02	.07	1	2	24
35293	10	1419	19	74	3.1	104	151	1067	22.32	858	5	ND	1	13	.2	8	2	52	2.07	.053	9	54	1.00	10	.01	7	1.01	.01	.04	1	6	1831
35294	1	354	4	51	.2	122	37	1364	9.82	958	5	ND	1	36	.5	3	2	77	3.14	.071	5	148	1.29	56	.03	3	1.70	.04	.38	1	2	113
35295	1	171	4	67	.1	148	43	1294	9.04	1432	5	ND	1	30	.3	8	2	82	3.19	.071	5	155	1.57	53	.03	5	1.83	.02	.30	1	2	96
35296	1	94	9	50	.1	64	32	1347	9.01	1884	5	ND	1	51	.2	7	2	46	4.90	.050	6	75	1.76	28	.01	5	.93	.02	.09	1	2	74
35297	1	139	7	65	.3	72	32	1532	9.92	52	5	ND	1	24	.5	6	2	87	4.47	.076	4	175	1.15	17	.03	8	2.27	.01	.05	1	2	95
35298	1	332	2	87	.6	87	45	1202	19.94	38	5	ND	1	18	.2	9	2	134	.98	.074	4	434	2.58	78	.16	5	4.36	.01	1.10	3	2	24
35299	8	1144	4	86	.3	16	25	854	9.04	6	12	ND	1	26	.6	4	2	112	1.27	.123	128	22	1.22	25	.03	6	2.25	.04	.06	1	6	451
35300	41	3063	2	46	1.8	20	141	373	31.10	129	14	21	1	9	.2	4	9	42	.28	.065	75	25	.18	11	.02	5	.99	.01	.07	1	14	14657
35301	37	1158	7	36	.8	9	53	378	11.42	25	18	7	1	11	.7	2	2	49	.84	.111	56	17	.35	16	.07	3	1.40	.04	.08	1	2	5227
35302	2	609	4	30	.1	35	19	336	5.19	16	5	ND	1	21	.6	2	2	64	1.42	.085	8	63	.81	40	.08	4	2.11	.07	.15	1	2	64
35303	1	181	3	29	.1	29	37	635	4.87	242	5	ND	1	22	.2	2	2	52	.98	.084	9	15	.45	45	.05	5	1.43	.04	.11	1	2	67
35304	2	153	2	44	.1	82	25	576	4.76	2	5	ND	1	39	.4	3	2	87	1.25	.104	8	103	1.29	90	.11	6	2.21	.08	.47	1	2	108
35305	7	752	2	55	.8	38	49	1505	14.90	53	5	ND	1	29	.2	7	2	58	2.88	.061	21	57	2.10	12	.01	6	.67	.01	.02	1	2	535
35306	3	800	2	21	.3	6	50	462	6.96	3	14	ND	1	22	1.2	2	2	52	1.49	.122	106	18	.65	14	.06	5	1.86	.06	.07	1	10	183
35307	19	858	2	36	.4	13	21	475	13.81	44	5	ND	1	12	.2	3	2	62	.97	.075	41	115	.79	26	.07	3	1.78	.06	.08	1	2	1560
35308	1	123	2	46	.1	73	27	779	6.24	3	5	ND	1	34	.7	5	2	85	1.10	.087	6	165	1.68	67	.13	2	2.65	.09	.50	1	2	24
35309	1	117	2	48	.1	89	25	788	5.62	112	5	ND	1	23	.3	3	2	84	1.00	.087	5	150	1.22	60	.05	6	1.53	.05	.11	1	2	199
35310	4	9255	2	358	13.4	18	275	939	28.96	48	5	4	1	3	2.4	4	2	36	.23	.027	4	20	.48	5	.01	9	.80	.01	.02	1	2	9670
35311	1	9074	2	346	10.3	14	123	755	16.86	20	5	10	1	14	3.0	4	2	67	.91	.103	5	18	.71	12	.09	8	1.06	.02	.04	1	4	8801
35312	1	197	3	45	.2	49	24	868	5.88	58	5	ND	1	28	.2	5	2	69	4.09	.105	6	92	1.24	20	.07	5	2.01	.03	.07	1	2	79
35313	1	333	2	66	.4	40	26	1751	13.28	50	5	ND	1	43	.2	8	2	43	4.86	.066	9	59	2.46	13	.01	5	.90	.02	.04	1	2	46
35314	1	536	3	119	.5	6	30	847	9.63	2	5	ND	1	20	.7	3	2	78	2.21	.115	10	13	.96	15	.01	4	2.12	.02	.05	1	2	177
35315	1	1114	3	110	1.0	12	40	1089	9.43	2	5	ND	1	11	1.2	5	2	107	.87	.144	9	35	1.42	83	.13	4	2.14	.03	.77	1	2	282
STANDARD C/AU-R	19	62	40	130	7.0	73	32	1054	3.97	40	18	7	36	52	18.9	15	19	56	.51	.094	37	58	.89	180	.07	36	1.90	.06	.14	11	2	511

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Rock AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 20 1990 DATE REPORT MAILED: Aug 23/90. SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
35316	1	445	5	77	.3	14	23	1084	8.23	23	5	ND	1	14	.2	5	5	120	1.82	.124	9	44	1.50	75	.16	5	1.87	.04	.65	1	2	29
35317	1	490	7	80	.5	12	37	1438	11.01	43	5	ND	1	14	.7	3	2	111	1.26	.140	9	43	1.55	38	.10	5	1.98	.03	.20	1	2	324
35318	1	190	2	51	.3	15	21	1214	6.87	24	5	ND	1	29	.2	5	2	43	3.74	.059	9	31	1.67	18	.01	5	.48	.01	.04	1	2	182
35320	162	3928	11	37	1.7	11	261	239	27.62	25	5	ND	1	3	1.0	2	2	20	.26	.078	3	24	.12	3	.01	9	1.18	.01	.03	1	2	142
35321	9	219	7	30	.2	4	21	440	4.01	2	5	ND	1	16	.2	2	2	56	1.02	.114	8	12	.50	22	.08	6	1.32	.10	.07	1	2	1
35322	1	184	2	72	.2	14	25	1125	10.23	2	5	ND	1	13	.6	5	4	101	1.67	.093	15	43	1.06	10	.09	5	1.73	.08	.05	1	2	35
35323	13	659	2	66	.9	18	77	981	14.32	9	5	ND	1	15	.2	6	4	116	1.34	.095	18	37	1.22	16	.10	8	1.92	.04	.04	1	2	88
35324	9	397	8	45	.6	13	56	1124	9.35	2	5	ND	1	8	.2	3	3	145	1.11	.191	8	24	1.20	14	.15	4	2.38	.08	.06	1	2	14
35325	45	365	6	49	.7	15	57	773	9.96	8	5	ND	1	9	.2	4	7	158	1.09	.184	10	25	1.09	36	.24	3	2.00	.08	.19	1	2	1
35331	3	1154	6	90	.6	9	54	1597	13.67	56	5	ND	1	15	.2	5	3	102	1.39	.099	19	33	1.27	28	.02	7	1.01	.02	.07	1	2	127
35332	39	4349	4	93	2.9	18	261	947	29.60	31	5	7	1	11	.7	2	2	102	.42	.052	7	33	.75	14	.02	6	1.10	.02	.06	1	4	11896
35333	6	711	6	86	.6	8	91	1262	18.34	9	5	ND	1	43	.5	6	2	190	.85	.063	7	42	1.59	59	.11	6	2.75	.08	.66	1	2	688
35334	4	1122	2	99	.5	8	106	1377	23.77	26	5	ND	1	21	.7	2	2	114	.62	.049	26	28	.63	62	.01	6	1.51	.01	.06	1	5	662
35335	20	676	2	81	.6	5	45	1052	14.04	2	5	ND	1	24	.6	5	2	133	.51	.114	28	54	1.29	109	.16	2	2.76	.02	.61	1	2	123
35336	38	2906	2	75	2.7	22	259	593	29.51	24	5	2	1	5	1.1	4	2	67	.10	.065	7	42	.40	8	.02	9	1.15	.01	.05	1	2	8584
35337	3	158	2	41	2.6	6	21	872	6.23	2	5	12	1	27	.8	2	2	67	1.12	.081	7	18	.46	42	.04	5	1.41	.05	.08	1	2	114
35338	16	498	3	72	.6	10	76	1124	13.10	3	5	ND	1	12	.2	2	2	85	.52	.102	26	22	.84	57	.03	3	1.87	.01	.09	1	2	520
35339	29	2001	2	66	1.2	21	128	653	15.18	21	5	ND	1	11	.9	2	2	72	.79	.113	21	30	.76	22	.08	3	1.63	.06	.10	1	2	29
35340	5	202	2	47	.3	10	32	897	7.13	81	5	ND	1	17	.2	2	2	78	2.26	.129	11	19	.77	26	.09	4	1.56	.05	.08	1	2	107
35341	1	414	3	31	.4	11	34	533	6.86	5	5	ND	1	35	.2	2	2	111	1.57	.100	5	30	1.01	41	.14	7	2.19	.11	.24	1	2	7
35342	1	374	2	26	.3	11	33	431	6.72	2	5	ND	1	55	.2	2	2	106	1.56	.095	3	26	.94	46	.13	5	2.28	.15	.26	1	2	20
35343	5	247	2	56	.3	18	26	716	7.29	2	5	ND	1	31	.2	3	2	121	1.54	.127	7	43	1.26	38	.21	2	2.49	.03	.27	1	8	4
35344	42	635	2	47	.8	25	119	968	17.80	87	5	ND	1	24	.5	4	2	99	.79	.091	12	31	.81	39	.07	8	1.61	.07	.17	1	2	89
35345	24	1122	2	58	.7	33	181	1052	21.29	20	5	ND	1	14	.5	6	2	68	.95	.094	22	41	1.01	18	.10	6	1.48	.06	.12	1	10	98
35346	1	131	7	42	.2	10	20	1370	7.06	5	5	ND	1	58	.2	5	2	64	6.03	.064	7	19	1.23	25	.04	5	2.30	.03	.06	1	2	22
35347	1	35	3	16	.1	3	12	313	3.89	2	5	ND	1	106	.7	2	2	97	2.38	.105	2	15	.47	50	.07	7	2.34	.16	.13	1	3	1
35348	1	65	2	29	.2	6	16	494	4.40	6	5	ND	1	74	.9	2	2	94	3.17	.087	4	12	.54	25	.06	8	2.25	.16	.07	1	2	3
35349	1	202	2	46	.2	8	19	665	4.80	2	5	ND	1	27	.6	2	2	92	2.04	.133	6	21	1.00	41	.17	3	1.68	.06	.12	1	5	1
35350	1	169	9	40	.1	16	17	1346	7.26	5	5	ND	1	27	.2	3	2	112	5.23	.128	9	20	.82	42	.07	3	1.16	.04	.14	1	2	1
35351	1	48	2	25	.1	3	6	416	1.97	2	6	ND	1	16	.3	2	2	53	1.33	.127	4	8	.52	9	.07	4	.99	.07	.04	1	2	3
35352	1	412	2	40	.3	12	28	610	6.09	3	5	ND	1	18	.4	2	2	128	1.08	.150	6	22	.72	24	.16	3	1.39	.08	.09	1	9	8
35353	1	212	14	74	.2	2	26	1349	8.69	2	5	ND	1	106	.9	8	2	210	2.97	.081	4	19	2.19	37	.12	3	4.27	.16	.11	1	2	1
35354	40	389	11	42	.3	13	53	939	7.52	2	5	ND	1	29	.4	3	2	109	1.47	.131	10	27	.90	27	.12	5	2.00	.11	.11	1	9	6
35355	1	266	2	64	.5	5	31	976	8.53	2	5	ND	1	44	.2	7	2	156	1.68	.117	6	22	1.73	23	.14	5	2.85	.09	.09	1	3	20
35356	1	215	6	67	.2	7	23	928	8.44	2	5	ND	1	87	.7	8	2	168	2.34	.107	5	20	1.68	26	.11	6	3.60	.15	.09	1	5	2
35357	1	246	2	55	.2	8	31	912	7.32	2	5	ND	1	20	.2	4	2	113	.87	.139	8	44	1.09	38	.17	3	2.03	.09	.13	1	2	2
STANDARD C/AU-R	20	63	41	133	7.4	73	32	1052	3.97	40	15	7	40	53	18.6	15	20	60	.51	.098	39	59	.87	187	.08	40	1.88	.07	.13	12	2	489

[illegible] ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: NOV 9 1990

DATE REPORT MAILED: Nov 22/90

ASSAY CERTIFICATE

Homestake Mining (Canada) Limited PROJECT 3132 FILE # 90-3657R2

SAMPLE#	Cu %	Au** oz/t
35293	.13	.062
35300	.29	.476
35301	.12	.145
35305	.07	.016
35307	.08	.045
35310	.92	.266
35311	.93	.236
35332	.41	.309
35333	.07	.022
35334	.10	.024
35336	.24	.218
35338	.05	.019

- 1 GM SAMPLE LEACHED IN 50 ML AQUA - REGIA, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP AU** BY FIRE ASSAY FROM 1 A.T.

SIGNED BY.......... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ar-Clegg & Company Ltd.
Pemberton Ave.
North Vancouver, B.C.
7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

Certificate of Analysis

REPORT: V90-02699.4

DATE PRINTED: 2?-NOV-90
PROJECT: 3??? PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Cu PCT
X2 WP-03-1 31860		0.026	0.12
X2 WP-03-1 35261		0.028	0.17
X2 WP-03-1 35272		0.020	0.04
X2 WP-03-1 35276		0.012	0.04
X2 WP-3-3 31150		0.044	0.10
X2 31148		0.055	0.20
X2 31149		0.138	0.09
X2 35182		0.623#	0.39
X2 35184		0.082	0.07
X2 35187		0.094	0.14
X2 35189		0.068	0.10
X2 35191		0.030	0.04
X2 35192		0.136	0.09
X2 35198		0.030	0.07
X2 35200		0.032	0.05
X2 35203		0.119	0.25
X2 35236		0.190	0.23
X2 35237		0.148	0.21
X2 35243		0.008	0.05
X2 35244		1.102#	1.72
X2 35245		0.032	0.10
X2 35246		0.028	0.06
X2 35257		0.016	0.09
X2 35258		0.068	0.11
X2 35293		0.040	0.14
X2 35300		0.550	0.30
X2 35301		0.552	0.16
X2 35305		0.016	0.08
X2 35307		0.311#	0.09
X2 35310		0.382	0.97
X2 35311		0.236	0.69
X2 35332		0.372	0.37
X2 35333		0.020	0.07
X2 35334		0.026	0.10
X2 35336		0.298	0.25
X2 35338		0.017	0.03

ondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
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BONDAR-CLEGG

Certificate of Analysis

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

REPORT: V90-02699.4

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PROJECT: .3132 PAGE 3

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Cu PCT
WP-3-3 31150		0.044	0.10
Duplicate			0.09
31148		0.055	0.20
Duplicate		0.058	
35187		0.094	0.14
Duplicate			0.14
35200		0.032	0.05
Duplicate			0.04
35237		0.148	0.21
Duplicate		0.148	
35244		1.102#	1.72
Duplicate			1.74
35293		0.040	0.14
Duplicate			0.14
35307		0.311#	0.09
Duplicate		0.294	
35310		0.382	0.97
Duplicate			0.94
35338		0.017	0.03
Duplicate			0.03

[illegible] LAB[illegible] LTD 8[illegible] [illegible]INGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Posted

Homestake Mining (Canada) Limited PROJECT 3132 File # 90-4037 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-01-2 A-28-1	1	53	9	49	.1	54	18	537	4.38	11	5	ND	1	30	.2	2	2	108	.74	.036	4	60	1.39	50	.16	4	2.37	.03	.06	2	2	10
RP-01-2 A-28-2	1	67	3	61	.1	40	13	584	3.95	8	5	ND	1	37	.2	2	2	92	.86	.035	8	55	1.21	82	.18	5	2.34	.03	.05	1	2	12
RP-01-2 A-28-3	1	25	5	54	.2	37	15	431	4.38	5	5	ND	1	27	.2	2	2	96	.60	.014	6	53	.99	53	.29	5	2.25	.03	.03	1	2	7
RP-01-2 A-28-4	1	63	8	66	.2	59	19	637	4.75	6	5	ND	1	36	.2	2	2	102	.84	.051	6	71	1.29	59	.20	5	2.47	.03	.04	1	2	2
RP-01-2 A-28-5	1	91	17	88	.1	26	17	689	5.92	28	5	ND	1	37	.5	2	2	109	.71	.047	7	40	.90	46	.05	3	2.43	.02	.04	1	2	1
RP-01-2 A-28-6	1	103	14	71	.4	17	18	823	6.28	17	5	ND	1	26	1.1	2	2	104	1.06	.065	9	23	.58	47	.02	7	2.74	.02	.04	1	2	1
RP-01-2 A-29-2	1	69	6	69	.2	63	22	596	5.34	8	5	ND	1	35	.2	2	2	115	.72	.099	6	69	1.39	74	.20	5	3.07	.03	.08	1	2	4
RP-01-2 A-29-3	1	70	11	67	.3	59	14	628	3.84	8	5	ND	1	48	.2	2	2	84	.98	.047	10	60	1.30	113	.14	5	2.05	.04	.06	1	2	3
RP-01-2 A-29-4	1	50	9	92	.1	47	17	739	4.67	5	5	ND	1	38	.2	2	2	94	1.02	.051	7	64	1.28	91	.26	4	2.44	.04	.06	1	2	4
RP-01-2 A-29-5	1	96	12	167	.4	75	29	1631	6.83	6	5	ND	1	31	.8	2	2	119	.70	.134	10	80	1.35	138	.29	6	3.40	.03	.08	1	2	1
RP-01-2 A-29-6	1	124	14	71	.3	37	17	727	5.26	16	5	ND	1	36	.2	2	2	109	1.07	.052	8	51	1.16	45	.09	6	2.48	.03	.04	1	2	6
RP-01-2 A-30-1	1	149	5	49	.1	44	16	568	4.52	12	5	ND	1	38	.2	2	3	117	.86	.049	8	58	1.23	47	.16	5	2.01	.03	.10	2	2	11
RP-01-2 A-30-2	1	59	4	120	.4	65	21	515	6.06	10	6	ND	1	35	.3	3	2	119	.57	.127	8	72	1.13	102	.25	4	3.43	.02	.06	1	2	2
RP-01-2 A-30-3	1	50	6	57	.1	51	14	409	3.98	8	5	ND	1	36	.2	2	2	92	.63	.022	8	57	1.09	106	.11	5	2.48	.02	.04	1	2	1
RP-01-2 A-30-4	1	41	7	49	.1	51	18	441	4.38	9	5	ND	1	33	.2	2	2	110	.63	.013	5	70	1.21	73	.15	6	2.62	.03	.05	1	2	15
RP-01-2 A-30-5	1	131	6	68	.2	64	13	408	4.07	9	5	ND	1	33	.2	2	4	95	.75	.048	12	62	1.26	78	.22	4	2.50	.04	.04	1	2	8
RP-01-2 PS-28	1	120	14	84	.1	58	20	878	4.80	18	5	ND	1	50	.2	2	2	105	.94	.092	6	77	1.52	112	.15	8	2.61	.03	.12	1	2	6
RP-01-2 PS-29	1	69	10	69	.3	36	20	1049	4.68	7	5	ND	1	35	.2	2	2	107	.66	.066	9	52	.84	67	.24	6	2.59	.03	.04	1	2	6
RP-01-2 PS-30	1	79	7	57	.2	41	14	424	5.18	7	6	ND	1	34	.2	2	2	113	.75	.089	11	56	.90	73	.37	4	3.06	.04	.05	1	2	5
RP-01-2 PS-31	1	36	9	96	.3	31	18	1390	6.39	5	5	ND	1	37	.5	2	2	129	.67	.165	9	49	.67	101	.28	5	2.69	.02	.08	1	2	1
RP-01-2 PS-32	1	93	11	111	.6	81	23	1107	6.46	13	5	ND	2	33	.2	2	2	114	.47	.136	12	87	1.27	113	.36	6	3.66	.03	.07	1	2	6
RP-01-2 PS-33	1	105	7	76	.1	67	23	548	5.64	14	5	ND	1	44	.4	3	2	123	.54	.107	6	80	1.58	82	.18	5	3.66	.03	.05	1	2	16
RP-01-2 PS-34	1	52	16	172	.6	37	22	724	6.81	7	5	ND	1	28	1.2	2	2	134	.39	.469	7	55	.83	74	.28	7	3.09	.02	.07	1	2	7
RP-01-2 PS-35	1	90	16	102	.4	58	23	760	7.26	10	5	ND	1	31	.2	3	2	123	.48	.123	11	69	1.10	84	.44	5	3.53	.03	.07	1	2	4
RP-01-2 PS-36	1	100	8	76	.3	52	20	765	4.78	12	5	ND	1	45	.5	3	2	117	.87	.120	6	69	1.39	60	.14	7	2.54	.03	.09	1	2	14
RP-01-2 PS-37	1	43	55	107	.4	39	17	687	5.59	4	5	ND	1	28	.3	2	2	102	.45	.107	11	49	.64	88	.40	5	3.20	.03	.04	1	2	3
RP-01-2 PS-38	1	48	14	82	.3	38	17	607	5.69	6	5	ND	2	28	.4	2	2	109	.42	.137	8	51	.78	64	.34	7	2.89	.03	.05	1	2	4
RP-01-2 PS-39	1	56	12	68	.1	42	18	544	5.54	4	5	ND	2	32	.2	2	2	105	.63	.074	10	51	.87	54	.38	5	3.01	.04	.04	1	2	7
RP-01-2 PS-40	1	143	9	70	.2	62	23	890	5.24	19	5	ND	1	45	.2	4	2	122	1.09	.073	6	81	1.70	77	.16	9	2.70	.04	.22	1	2	17
RP-01-2 PS-41	1	148	8	79	.1	75	23	923	5.13	11	5	ND	1	71	.3	4	3	108	1.41	.107	9	87	1.79	87	.14	7	2.75	.04	.10	1	2	7
RP-01-2 PS-42	1	99	17	84	.1	56	21	941	5.00	8	5	ND	1	52	.2	3	2	116	1.05	.071	7	80	1.38	83	.14	8	2.56	.03	.16	1	2	9
RP-01-2 PS-43	1	111	8	53	.2	45	19	790	4.87	13	5	ND	1	43	.6	6	3	120	.93	.068	7	67	1.11	71	.12	7	2.37	.03	.20	1	2	18
RP-01-2 PS-44	1	71	2	130	.1	41	19	1021	4.59	7	5	ND	1	53	.7	2	2	101	1.00	.109	9	55	.97	173	.12	10	2.14	.03	.31	1	4	4
RP-01-2 PS-45	1	107	7	67	.2	48	16	568	4.36	11	5	ND	1	43	.2	3	2	97	.86	.066	10	59	1.12	94	.21	6	2.80	.03	.05	1	2	4
RP-01-2 PS-46	1	52	9	75	.2	44	15	722	4.37	7	5	ND	1	48	.2	2	2	99	.71	.095	6	60	1.13	77	.17	4	2.53	.03	.05	1	2	6
RP-01-2 PS-47	1	58	16	88	.2	37	17	946	5.40	5	5	ND	1	37	.4	2	4	122	.52	.128	7	52	.91	101	.19	6	3.02	.03	.05	1	2	6
STANDARD C/AU-S	19	60	42	133	7.0	73	32	1054	3.97	41	19	7	39	52	18.9	16	21	57	.51	.099	40	60	.89	183	.08	38	1.89	.06	.13	12	2	49

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 30 1990 DATE REPORT MAILED: Sept 6/90. SIGNED BY: [signature] D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

Homestake Mining (Canada) Limited PROJECT 3132 FILE # 90-4037

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-01-2 PS-48	1	37	10	84	.3	46	16	383	5.28	7	9	ND	1	28	.2	2	2	116	.47	.030	6	60	.86	43	.27	4	2.71	.02	.05	3	2	20
RP-01-2 PS-49	1	51	2	80	.2	59	19	692	4.37	7	5	ND	1	30	.2	2	2	85	.80	.051	9	57	1.51	66	.27	4	2.53	.04	.05	1	2	1
RP-01-2 PS-50	1	72	5	85	.2	43	17	719	4.28	6	5	ND	1	37	.3	2	2	100	1.28	.057	6	50	1.05	68	.16	5	2.33	.03	.06	1	2	7
RP-01-2 PS-51	1	38	12	125	.1	50	17	390	5.68	7	9	ND	1	32	.2	3	2	133	.71	.046	6	63	1.07	56	.27	6	2.83	.03	.06	1	2	1
RP-01-2 PS-52	1	50	23	101	.1	67	18	486	5.48	2	5	ND	1	40	.4	2	2	121	1.23	.036	6	77	1.19	53	.24	8	2.64	.03	.08	1	2	1
RP-01-2 PS-53	1	180	7	74	.1	78	25	961	5.31	14	5	ND	1	60	.2	3	2	125	1.32	.114	9	93	1.99	67	.16	5	2.73	.04	.15	1	2	10
RP-01-2 PS-54	1	71	11	59	.1	50	14	388	4.10	11	6	ND	1	50	.2	2	2	89	1.00	.041	8	51	1.09	68	.22	7	2.58	.04	.05	2	2	5
RP-01-2 PS-55	1	28	2	148	.4	46	19	471	5.70	3	6	ND	1	24	.4	2	2	111	.46	.186	7	63	.89	45	.32	4	2.29	.03	.06	1	2	1
RP-01-2 PS-56	1	43	16	103	.2	49	20	516	5.51	5	9	ND	1	27	.2	2	2	106	.44	.090	8	59	.86	86	.30	4	2.75	.03	.05	1	2	3
RP-01-2 PS-57	1	101	10	57	.1	49	18	424	4.62	8	6	ND	1	29	.2	2	5	117	.77	.029	8	58	1.10	41	.16	6	2.53	.03	.06	1	2	4
RP-01-2 PS-58	1	33	10	51	.1	41	15	361	4.34	10	5	ND	1	26	.2	2	2	108	.65	.020	4	52	1.03	45	.20	3	2.24	.03	.04	1	2	2
RP-01-2 PS-59	1	48	8	61	.1	42	15	363	4.84	7	5	ND	1	32	.6	2	2	126	.85	.026	5	62	1.01	50	.17	4	2.53	.03	.05	2	2	5
RP-01-3 AS-16	1	72	4	116	.1	36	15	794	4.19	11	5	ND	1	46	.3	2	2	82	1.56	.090	7	48	1.29	34	.07	7	2.00	.04	.04	1	2	2
RP-01-3 AS-17	1	92	4	110	.1	54	19	856	4.86	12	5	ND	1	42	.5	2	2	90	1.53	.081	6	66	1.56	35	.09	9	2.06	.04	.05	1	2	2
RP-01-3 AS-18	1	77	6	91	.1	48	17	749	4.37	9	5	ND	1	44	.4	2	4	90	1.59	.082	5	64	1.40	34	.09	8	1.83	.03	.05	1	2	2
RP-01-3 P-6	1	103	10	66	.1	41	21	880	4.96	6	5	ND	1	87	.3	2	2	134	1.51	.091	6	48	1.59	40	.13	7	2.49	.04	.06	1	2	6
RP-01-3 P-7	1	101	5	114	.2	64	22	932	5.03	11	5	ND	1	53	.2	2	2	109	1.58	.088	6	73	1.73	55	.13	8	2.21	.04	.07	1	2	4
RP-02-2 A-24-6	1	108	4	58	.1	124	29	589	5.74	4	5	ND	1	32	.2	2	2	120	1.15	.091	3	93	2.48	25	.18	5	2.79	.02	.05	1	3	2
RP-02-2 A-24-7	1	48	2	51	.1	51	15	393	4.40	5	5	ND	1	31	.2	2	3	118	.72	.091	6	60	1.05	57	.14	4	2.03	.02	.06	1	2	4
RP-02-2 A-25-5	1	41	10	114	.2	55	19	399	5.93	13	7	ND	1	27	.4	2	3	147	.52	.042	5	66	1.07	49	.24	5	2.93	.02	.09	1	2	6
RP-02-2 A-25-6	1	62	9	89	.6	61	23	457	6.14	10	8	ND	1	30	.2	2	4	129	.48	.079	9	71	1.09	58	.32	5	3.29	.03	.05	1	2	14
RP-02-2 A-25-7	1	135	11	66	.1	106	26	560	5.64	13	5	ND	1	40	.2	2	2	139	.81	.092	5	105	2.05	81	.17	7	4.08	.02	.10	1	2	3
RP-02-2 A-26-1	1	66	8	95	.1	56	17	666	4.75	16	5	ND	1	34	.2	2	2	115	.81	.065	6	77	1.48	100	.16	6	2.64	.03	.10	1	2	1
RP-02-2 A-26-2	1	68	12	67	.3	66	20	529	5.65	13	6	ND	1	31	.2	2	3	112	.61	.102	8	65	1.25	51	.32	5	2.82	.03	.05	1	2	2
RP-02-2 A-26-3	1	82	7	57	.1	50	18	450	4.74	9	5	ND	1	49	.2	2	2	120	.64	.092	6	66	1.29	105	.14	5	2.59	.02	.04	1	2	4
RP-02-2 A-26-4	1	172	3	91	.1	101	27	1047	5.60	21	5	ND	1	62	.3	2	2	127	1.30	.105	10	116	2.12	92	.15	10	2.62	.04	.15	1	2	4
RP-02-2 A-26-5	1	129	14	60	.2	53	20	836	4.40	9	5	ND	1	58	.2	2	2	102	1.57	.098	10	58	1.30	73	.17	6	2.60	.04	.08	1	2	12
RP-02-2 A-26-6	1	53	7	46	.2	48	16	466	3.86	9	5	ND	1	35	.2	2	2	96	.73	.053	5	55	1.16	67	.18	5	2.29	.03	.05	2	2	9
RP-02-2 A-27-1	1	66	2	75	.2	79	22	673	5.38	5	5	ND	1	39	.2	2	2	107	1.08	.061	6	86	1.93	69	.23	6	2.83	.03	.07	1	2	1
RP-02-2 A-27-2	1	102	10	97	.3	71	22	851	4.97	9	5	ND	1	36	.2	2	2	104	.79	.080	8	74	1.48	87	.22	7	2.73	.03	.06	1	2	4
RP-02-2 A-27-3	1	87	11	96	.5	60	19	600	5.47	12	5	ND	1	34	.2	2	4	123	.73	.065	10	69	1.11	68	.20	8	2.89	.03	.10	1	2	1
RP-02-2 A-30-6	1	83	12	92	.2	46	20	620	5.44	32	5	ND	1	41	.2	2	2	122	.74	.053	6	61	1.35	60	.13	6	3.07	.03	.05	1	2	4
RP-02-3 AS-4	1	121	12	151	.4	46	16	508	5.25	19	6	ND	1	62	.3	2	2	85	1.34	.126	10	74	1.37	135	.13	11	2.62	.04	.08	1	2	2
RP-02-3 AS-4B	1	100	7	141	.2	42	18	744	4.44	15	5	ND	1	57	.3	2	3	97	1.46	.108	8	61	1.28	92	.13	11	2.04	.03	.09	1	2	4
RP-02-3 AS-5	1	114	5	166	.2	46	19	838	4.57	15	5	ND	1	61	.2	2	2	97	1.60	.109	9	61	1.33	97	.13	11	2.09	.03	.09	1	2	5
RP-02-3 AS-6	1	109	13	112	.1	164	34	1003	5.64	6	5	ND	1	45	.3	2	2	98	1.73	.074	5	88	3.75	64	.16	12	2.97	.03	.05	1	2	4
STANDARD C/AU-S	19	60	38	133	7.3	72	31	1053	3.97	40	16	7	40	52	18.8	15	21	57	.51	.098	40	60	.92	183	.08	38	1.88	.06	.13	11	2	51

refer to detailed grid { RP-03-03 35083, RP-03-03 35084 }

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-02-3 AS-7	1	129	3	93	.2	104	20	747	4.12	6	5	ND	1	50	.2	2	2	80	2.00	.081	4	76	2.18	77	.14	12	2.25	.03	.06	2	2	4
RP-02-3 AS-8	1	144	11	150	.3	54	18	708	4.75	17	5	ND	1	61	.2	2	2	96	2.04	.121	7	68	1.40	120	.14	12	2.32	.04	.10	1	2	11
RP-02-3 AS-9	1	126	8	132	.2	53	18	697	5.00	18	5	ND	1	53	.2	2	2	107	1.72	.118	7	70	1.34	107	.14	9	2.18	.03	.09	1	2	5
RP-02-3 AS-10	1	148	7	91	.3	62	17	597	5.59	9	5	ND	1	70	.2	2	2	134	1.88	.123	6	67	1.47	103	.12	8	2.24	.03	.07	1	2	732
RP-02-3 AS-11	1	117	6	66	.2	44	19	738	5.54	8	5	ND	1	74	.2	2	2	137	1.57	.133	6	55	1.24	109	.14	4	2.00	.04	.06	1	2	11
RP-02-3 AS-12	1	156	5	126	.3	57	18	652	5.22	20	5	ND	1	56	.2	3	2	108	1.75	.119	7	71	1.39	122	.14	11	2.30	.04	.11	1	2	8
RP-02-3 AS-13	1	113	4	109	.2	65	16	688	4.72	15	5	ND	1	48	.2	2	2	102	1.56	.125	6	98	1.53	101	.16	8	2.06	.04	.10	2	2	6
RP-02-3 AS-14	1	101	10	105	.2	64	17	727	4.36	14	5	ND	1	47	.2	2	2	96	1.57	.121	6	99	1.52	97	.16	7	1.97	.04	.10	1	2	8
RP-02-3 AS-15	1	122	5	83	.3	60	17	661	4.42	12	5	ND	1	51	.2	2	2	94	1.94	.100	5	68	1.53	59	.13	9	2.06	.04	.08	1	2	6
RP-03-03 35083	1	518	4	150	.6	69	16	634	3.97	12	7	ND	1	74	.2	3	2	79	3.10	.129	6	67	1.40	80	.09	21	2.29	.03	.09	1	2	11
RP-03-03 35084	1	566	6	171	.6	71	17	761	3.99	10	6	ND	1	82	.2	2	2	80	3.39	.128	6	67	1.41	84	.11	21	2.29	.03	.08	1	2	6
RP-04-3 AS-3	1	198	7	237	.6	57	15	1008	4.23	16	5	ND	1	90	.2	2	2	71	2.65	.147	8	70	1.18	195	.10	11	2.80	.03	.11	1	2	1
RP-05-2 F18-1	4	145	15	108	.7	17	17	453	6.52	2	5	ND	1	65	.2	2	2	128	1.08	.078	10	34	.57	70	.28	2	4.77	.02	.04	1	2	15
RP-05-2 F18-2	1	131	10	85	.4	21	24	504	7.48	7	5	ND	1	61	.2	3	2	200	.66	.083	4	28	1.10	96	.17	4	5.05	.02	.03	1	2	8
RP-05-2 F18-3	1	156	8	62	.4	19	30	467	7.06	2	5	ND	1	80	.2	4	2	195	.83	.039	3	29	1.29	50	.14	3	5.03	.02	.04	1	4	13
RP-05-2 F18-4	1	103	14	93	.3	27	22	436	6.06	4	5	ND	1	62	.2	2	2	136	.83	.096	4	35	1.17	66	.15	2	5.50	.02	.04	1	3	4
RP-05-2 F18-5	1	150	5	64	.2	25	21	512	6.09	8	5	ND	1	72	.2	2	2	156	.95	.086	4	42	1.16	62	.14	3	3.48	.02	.06	2	2	8
RP-05-2 F19-1	1	63	11	140	.4	21	18	624	7.39	6	5	ND	1	67	.2	2	2	162	.69	.132	5	48	.93	64	.19	5	3.09	.02	.06	1	2	4
RP-05-2 F19-2	1	98	7	72	.4	20	22	455	7.20	2	5	ND	1	68	.2	3	2	173	.73	.064	6	38	1.28	32	.18	6	5.73	.02	.05	1	2	12
RP-05-2 F19-3	1	133	15	63	.3	10	32	934	6.83	2	5	ND	1	113	.2	8	2	171	1.63	.061	5	14	2.01	59	.14	5	5.67	.03	.03	1	2	11
RP-05-2 F19-4	1	163	14	76	.4	17	26	782	7.09	3	5	ND	1	99	.2	2	2	171	1.13	.083	3	25	1.43	105	.08	4	4.44	.03	.04	1	2	36
RP-05-2 F19-5	2	62	12	47	.3	12	10	297	6.24	2	5	ND	1	30	.2	2	2	101	.41	.092	6	38	.31	32	.23	2	7.30	.01	.02	1	2	9
RP-05-2 F19-6	1	162	3	46	.4	13	30	472	9.26	2	5	ND	1	81	.2	2	2	294	.96	.101	3	25	.97	43	.10	3	4.47	.02	.04	1	2	20
RP-05-2 F20-1	1	96	17	78	.3	17	21	573	7.31	6	5	ND	1	67	.2	3	2	172	.85	.083	8	30	.73	56	.26	2	4.44	.02	.03	1	2	9
RP-05-2 F20-2	2	78	8	78	.2	14	22	701	8.79	6	5	ND	1	70	2.0	2	2	269	.91	.112	7	30	.62	55	.18	2	4.15	.02	.03	1	2	42
RP-05-2 F20-3	1	76	10	136	.2	19	14	818	6.03	5	5	ND	1	60	1.0	2	2	125	.69	.129	15	33	.49	100	.28	2	4.45	.02	.04	1	2	3
RP-05-2 F20-4	1	76	5	71	.3	12	16	427	5.31	2	5	ND	1	75	.3	2	6	143	.91	.115	6	25	.67	50	.09	2	5.38	.02	.02	1	2	18
RP-05-2 F20-5	1	77	16	62	.1	14	23	472	4.89	5	5	ND	1	83	.6	4	2	115	1.12	.078	4	16	1.60	44	.10	2	7.61	.02	.04	1	2	2
RP-05-2 F20-6	1	99	6	90	.1	18	22	552	6.67	7	5	ND	1	85	.6	3	5	178	.88	.172	4	33	1.29	46	.11	2	3.93	.02	.04	1	2	19
RP-05-2 F21-1	1	81	5	91	.2	16	20	763	6.29	6	5	ND	1	84	.3	2	2	151	.87	.111	9	29	.99	58	.21	2	3.53	.02	.04	2	2	1
RP-05-2 F21-2	1	44	12	81	.1	13	21	552	4.16	2	5	ND	1	96	.3	2	2	85	1.20	.107	3	17	1.19	40	.10	3	6.37	.02	.04	1	2	2
RP-05-2 F21-3	1	99	10	102	.2	26	24	865	6.89	5	5	ND	1	79	1.4	2	4	163	.92	.105	12	35	.91	57	.22	2	4.55	.03	.03	1	2	36
RP-05-2 F21-4	1	33	7	81	.1	26	14	584	5.36	4	5	ND	1	30	.4	2	2	79	.52	.094	13	35	.79	40	.36	2	5.43	.03	.03	1	2	3
RP-05-2 F21-5	1	598	4	53	.1	13	33	590	6.88	2	5	ND	1	134	.7	2	2	201	.99	.062	6	17	1.19	51	.10	2	4.66	.03	.03	1	2	100
RP-05-2 F21-6	1	41	15	75	.1	32	16	593	6.58	2	5	ND	2	19	.6	2	2	107	.32	.078	14	42	.94	36	.46	2	5.79	.03	.03	1	2	3
RP-05-2 F22-1	1	36	6	86	.2	47	22	874	6.42	6	5	ND	.2	25	.8	2	2	84	.61	.112	18	44	1.50	51	.53	2	2.85	.08	.05	2	2	2
STANDARD C/AU-S	18	59	40	131	7.2	72	31	1051	3.93	42	16	7	37	53	18.6	15	21	56	.51	.098	37	59	.88	179	.07	35	1.90	.06	.14	11	2	48

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-05-2 F22-2	3	46	12	82	.1	19	15	641	6.37	3	5	ND	1	34	.2	2	4	112	.57	.105	16	37	.56	48	.32	3	4.20	.02	.03	1	2	5
RP-05-2 F22-3	2	56	2	105	.1	24	21	790	7.46	4	5	ND	1	44	1.4	2	2	164	.38	.056	7	37	1.01	85	.43	2	3.62	.02	.03	1	2	6
RP-05-2 F22-4	2	61	10	138	.2	22	18	908	6.34	2	5	ND	1	77	.4	2	2	136	.93	.120	17	39	.66	98	.29	2	4.20	.02	.04	1	2	5
RP-05-2 F22-5	1	117	2	47	.1	9	27	581	7.07	2	5	ND	1	94	.4	2	3	230	1.07	.142	7	12	1.12	49	.14	2	4.84	.02	.04	2	2	32
RP-05-2 F23-1	1	75	8	99	.1	16	25	1220	6.84	5	5	ND	1	100	1.0	2	3	192	1.32	.092	10	31	.99	62	.19	3	3.41	.03	.04	1	2	541
RP-05-2 F23-2	2	76	4	87	.1	18	23	526	7.26	4	5	ND	1	66	.5	2	2	189	.68	.084	8	28	.94	56	.26	2	3.82	.02	.05	1	2	20
RP-05-2 F23-3	1	109	9	82	.2	18	20	724	5.14	2	5	ND	1	203	.2	2	4	159	1.38	.114	9	19	1.09	110	.13	2	6.06	.03	.03	1	2	5
RP-05-2 F23-4	1	56	2	82	.1	30	21	804	6.13	2	5	ND	1	56	.7	2	2	125	.76	.108	14	32	1.14	58	.37	2	5.07	.05	.04	1	2	3
RP-05-2 F23-5	1	107	6	77	.3	20	25	776	6.52	2	5	ND	1	113	.3	2	2	195	.93	.076	9	22	1.32	77	.19	2	5.31	.03	.04	1	2	44
RP-05-2 F23-6	2	60	6	70	.1	24	18	780	5.82	2	5	ND	1	31	.6	2	2	120	.44	.095	13	28	.83	40	.31	3	5.80	.03	.04	2	2	10
RP-05-2 F24-1	1	166	2	72	.3	12	31	944	7.68	6	5	ND	1	139	1.3	2	2	252	.96	.083	5	12	1.40	56	.10	4	4.93	.03	.04	2	2	13
RP-05-2 F24-2	1	69	5	61	.1	23	22	583	5.41	4	5	ND	1	102	.3	2	2	171	.87	.067	5	21	1.05	74	.09	2	5.10	.03	.04	2	2	7
RP-05-2 F24-3	1	46	11	52	.1	15	14	496	3.86	2	5	ND	1	71	.4	2	5	98	.76	.119	5	17	.57	91	.10	2	6.35	.02	.03	3	2	6
RP-05-2 F24-4	1	76	10	68	.4	15	15	662	4.14	2	5	ND	1	174	.2	2	3	139	1.47	.116	9	20	.71	104	.14	2	6.10	.03	.03	1	2	10
RP-05-2 F24-5	1	200	2	80	.2	10	35	1082	6.87	3	5	ND	1	163	.7	2	2	194	2.29	.179	9	11	1.54	87	.15	2	3.94	.04	.07	1	3	15
RP-05-2 F24-6	2	80	2	63	.2	12	21	678	6.75	2	5	ND	1	65	.2	2	5	216	.68	.149	9	38	.75	41	.10	2	5.33	.02	.02	2	2	6
RP-05-2 F25-1	1	140	5	93	.1	10	28	1004	6.50	3	5	ND	1	92	.2	2	3	168	1.10	.178	11	17	1.15	68	.15	2	5.01	.03	.04	2	2	3
RP-05-2 F25-2	1	138	2	65	.2	10	30	842	6.94	2	5	ND	1	120	.5	2	2	224	1.48	.139	7	12	1.10	49	.12	2	3.32	.04	.04	2	2	19
RP-05-2 F25-3	1	78	3	53	.1	15	18	481	4.76	2	5	ND	1	59	.2	2	2	141	.66	.135	7	16	.80	78	.09	4	5.41	.02	.03	1	2	6
RP-05-2 F25-4	1	58	2	55	.1	17	17	492	4.23	2	5	ND	1	130	.4	2	2	111	.78	.112	9	16	.91	119	.10	3	7.68	.03	.03	1	2	1
RP-05-2 F25-5	1	54	2	66	.2	25	21	620	5.55	2	5	ND	2	107	.2	2	2	150	.93	.076	12	25	1.08	86	.19	2	4.61	.04	.04	1	2	4
RP-05-2 F25-6	1	65	2	63	.1	19	24	563	4.74	3	5	ND	1	198	.5	2	2	127	1.24	.046	6	16	1.55	67	.10	3	5.60	.03	.05	1	2	5
RP 8+00N 8+60W	2	71	2	97	.1	64	24	635	7.14	11	5	ND	2	32	.6	2	2	145	.46	.199	6	79	1.45	58	.34	3	4.36	.03	.05	2	2	19
RP 8+00N 8+40W	2	36	6	106	.2	39	31	1504	7.11	3	5	ND	1	35	1.1	2	2	136	.58	.140	8	59	1.01	53	.43	2	2.22	.03	.06	1	2	2
RP 8+00N 8+20W	1	34	12	100	.1	41	23	701	6.48	3	5	ND	2	27	1.4	2	2	103	.46	.109	10	47	.93	44	.54	2	3.45	.05	.05	1	2	4
RP 8+00N 8+00W	1	46	3	91	.1	40	23	614	6.75	5	5	ND	1	28	.9	2	2	126	.39	.104	7	58	.80	56	.43	2	2.89	.02	.04	1	2	6
RP 8+00N 7+80W	1	56	4	80	.2	41	24	595	6.67	6	5	ND	1	32	.3	2	2	148	.60	.137	6	55	.95	53	.28	2	3.14	.03	.04	1	2	8
RP 8+00N 7+60W	1	82	6	60	.1	64	22	537	5.13	12	5	ND	1	50	.5	2	3	117	.70	.075	4	80	1.58	72	.20	2	3.48	.03	.05	3	2	22
RP 8+00N 7+40W	1	68	6	151	.1	53	24	907	5.65	12	5	ND	1	36	.3	2	2	119	.68	.183	5	67	1.39	76	.21	4	2.86	.03	.05	1	2	52
RP 8+00N 7+20W	1	45	6	94	.1	50	21	656	5.35	4	5	ND	2	39	.7	2	2	93	.70	.082	9	64	1.13	58	.39	3	2.85	.04	.05	1	2	4
RP 8+00N 7+00W	1	80	2	67	.1	60	23	608	5.17	4	5	ND	1	53	1.1	2	2	113	.87	.059	5	71	1.60	61	.22	2	3.12	.03	.06	1	2	17
RP 8+00N 6+80W	1	58	9	91	.2	49	21	530	5.55	8	5	ND	2	44	.9	2	2	106	.63	.106	7	63	1.17	67	.36	2	3.07	.04	.04	1	2	14
RP 8+00N 6+60W	1	63	7	98	.1	51	23	757	5.35	2	5	ND	1	50	.4	2	8	103	.75	.102	7	63	1.22	78	.32	2	3.15	.03	.04	2	2	12
RP 8+00N 6+40W	1	89	3	81	.1	56	21	647	5.47	6	5	ND	1	53	.2	2	2	110	.79	.137	8	71	1.33	71	.27	3	3.64	.03	.04	1	2	15
RP 8+00N 6+20W	2	152	9	60	.8	30	16	548	5.04	3	5	ND	2	42	.3	2	2	95	.81	.144	22	46	.63	62	.34	2	3.34	.03	.04	1	2	8
RP 8+00N 6+00W	1	73	4	99	.2	39	24	901	5.82	7	5	ND	1	58	.5	2	2	142	.96	.137	5	54	1.09	87	.16	4	3.27	.03	.07	1	2	9
STANDARD C/AU-S	20	60	42	138	7.4	72	33	1105	4.03	41	21	7	41	53	20.3	14	22	60	.53	.094	41	60	.94	192	.08	38	1.98	.07	.13	12	2	47

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 8+00N 5+80W	2	133	18	109	.4	77	23	730	7.25	2	5	ND	1	42	.2	2	2	100	.89	.123	24	83	1.29	140	.47	2	4.13	.06	.06	1	2	6
RP 8+00N 5+60W	1	60	10	110	.1	32	25	1464	6.76	4	5	ND	1	46	.2	2	2	141	.79	.188	6	56	.93	78	.21	5	2.47	.03	.07	1	2	8
RP 8+00N 5+40W	1	92	3	83	.1	88	26	895	6.75	5	5	ND	1	39	.2	2	2	132	.80	.111	5	101	2.03	71	.25	3	4.46	.03	.08	1	2	21
RP 8+00N 5+20W	1	112	8	82	.1	80	25	852	6.65	2	5	ND	1	40	.2	2	2	138	.76	.087	3	103	2.09	73	.18	4	5.09	.03	.05	1	2	19
RP 8+00N 5+00W	1	129	7	69	.1	90	24	684	6.31	4	5	ND	1	40	.2	2	2	127	.77	.097	3	109	2.10	73	.15	2	5.20	.03	.06	2	2	80
RP 8+00N 4+80W	1	95	7	99	.1	99	26	817	7.17	12	5	ND	1	40	.2	2	2	135	.83	.106	4	120	2.44	78	.19	4	5.02	.03	.08	1	2	18
RP 8+00N 4+60W	1	42	7	119	.1	64	24	1312	5.94	8	5	ND	1	36	.2	4	2	121	.74	.118	4	98	1.56	74	.22	3	2.78	.03	.10	1	2	25
RP 8+00N 4+40W	1	56	4	106	.1	112	30	1250	6.41	2	5	ND	1	34	.2	3	2	113	.79	.106	4	100	2.52	76	.24	5	4.26	.03	.08	1	2	18
RP 8+00N 4+20W	1	54	10	240	.1	42	21	622	6.44	2	5	ND	1	37	.2	2	2	142	.63	.157	5	62	1.03	66	.14	4	3.59	.02	.06	1	2	6
RP 8+00N 4+00W	1	84	11	89	.1	40	22	449	7.77	3	5	ND	1	49	.2	2	2	194	.70	.085	4	69	1.04	41	.15	4	3.44	.02	.04	1	2	7
RP 8+00N 3+60W	1	122	12	57	.4	35	20	564	7.03	2	5	ND	1	57	.2	2	2	172	.85	.100	5	62	1.01	38	.15	2	3.10	.03	.05	1	2	8
RP 8+00N 3+40W	1	172	10	51	.1	45	22	653	6.19	2	5	ND	1	61	.2	2	2	154	1.02	.081	8	70	1.21	52	.12	3	3.40	.03	.06	2	2	8
RP 8+00N 3+20W	1	82	13	70	.1	56	22	559	6.70	7	5	ND	1	28	.2	2	2	147	.62	.181	6	79	1.28	45	.21	2	3.58	.02	.04	2	2	13
RP 8+00N 3+00W	1	40	6	148	.3	48	20	603	6.96	4	5	ND	1	27	.2	2	2	128	.51	.159	7	72	1.05	60	.35	3	2.67	.03	.05	1	2	11
RP 8+00N 2+80W	1	61	4	126	.6	49	22	728	6.80	4	5	ND	1	30	.2	2	2	131	.62	.172	6	80	1.13	69	.26	2	3.56	.02	.06	1	2	6
RP 8+00N 2+60W	1	108	7	97	.2	72	20	596	5.93	7	5	ND	1	31	.2	2	2	129	.64	.115	4	89	1.48	48	.21	4	3.60	.03	.06	1	2	27
RP 8+00N 2+40W	1	111	14	103	.5	81	25	693	6.87	8	5	ND	1	30	.2	2	2	141	.61	.142	4	100	1.72	69	.21	3	4.41	.03	.06	2	2	14
RP 8+00N 2+20W	1	82	7	112	.4	58	21	712	6.26	6	5	ND	1	31	.2	2	2	128	.56	.099	6	82	1.29	68	.26	2	3.64	.02	.05	1	2	4
RP 8+00N 2+00W	1	70	4	93	.1	53	17	615	5.29	3	5	ND	1	35	.2	2	2	113	.86	.078	5	69	1.28	72	.26	2	2.96	.03	.04	1	2	4
RP 8+00N 1+80W	2	64	6	91	.1	38	15	432	6.46	8	5	ND	1	32	.2	2	3	160	.68	.083	6	73	.99	61	.19	2	3.43	.03	.05	1	2	11
RP 8+00N 1+40W	1	98	9	72	.1	56	19	615	6.10	4	5	ND	1	50	.2	2	2	133	1.14	.036	4	70	1.54	99	.20	3	4.32	.04	.07	1	2	3
RP 8+00N 1+20W	1	85	11	96	.1	78	21	694	5.79	9	5	ND	1	35	.2	2	2	129	.71	.061	5	112	1.83	94	.20	6	4.26	.03	.05	3	2	5
RP 8+00N 1+00W	1	71	15	82	.1	70	19	585	5.38	4	5	ND	1	42	.2	3	4	116	.72	.048	5	90	1.68	78	.23	2	3.63	.03	.05	1	2	6
RP 8+00N 0+80W	1	71	4	89	.2	62	18	457	5.64	2	5	ND	1	38	.2	3	2	125	.65	.024	4	85	1.50	52	.20	4	3.45	.03	.05	1	2	172
RP 8+00N 0+20W	1	172	5	64	.1	68	17	654	5.14	8	5	ND	1	66	.2	4	3	113	1.33	.030	5	86	1.84	61	.23	6	2.95	.03	.04	1	2	6
RP 8+00N 0+20E	1	89	14	121	.1	108	27	554	6.62	2	5	ND	1	30	.2	2	2	113	.73	.063	7	92	2.16	71	.37	2	5.12	.03	.05	1	2	1
RP 8+00N 0+40E	1	88	11	99	.7	47	19	482	6.63	4	5	ND	1	31	.2	2	2	151	.57	.187	4	63	1.09	62	.18	2	3.85	.03	.05	1	2	12
RP 8+00N 0+60E	1	151	12	87	.3	73	20	713	5.68	10	5	ND	1	40	.2	2	2	116	.86	.077	6	85	1.70	71	.19	3	3.86	.03	.04	1	2	2
RP 8+00N 0+80E	1	84	8	76	.1	74	20	607	6.03	14	5	ND	1	45	.2	5	2	131	.86	.057	4	86	2.07	68	.21	4	3.48	.03	.05	1	2	4
RP 8+00N 1+00E	1	78	11	93	.1	86	23	683	5.76	12	5	ND	1	50	.2	4	2	123	.87	.053	4	97	2.43	58	.22	2	3.82	.03	.05	1	2	7
RP 8+00N 1+20E	1	84	14	74	.1	104	27	598	7.41	3	5	ND	1	41	.2	2	2	162	.70	.076	3	101	2.62	55	.23	3	5.01	.02	.05	1	2	14
RP 8+00N 1+40E	2	91	14	97	.1	56	19	590	8.35	5	5	ND	1	35	.2	4	3	171	.53	.167	6	81	1.46	50	.30	2	4.44	.03	.05	1	2	5
RP 8+00N 1+60E	1	66	7	103	.2	43	15	567	4.73	8	5	ND	1	40	.2	4	2	111	1.01	.048	5	63	1.19	72	.19	4	2.66	.03	.04	1	2	6
RP 8+00N 1+60E (A)	1	67	12	86	.1	73	21	628	6.61	6	5	ND	1	39	.2	4	3	142	.67	.111	5	80	2.03	70	.26	6	3.48	.03	.05	1	2	6
RP 8+00N 1+80E	1	97	14	83	.1	121	26	617	7.37	2	5	ND	1	26	.2	2	2	139	.53	.099	4	106	2.67	62	.28	2	5.55	.03	.06	2	2	9
RP 8+00N 2+00E	1	98	15	91	.1	104	27	605	7.55	2	5	ND	1	43	.2	2	2	145	.57	.140	6	100	2.51	57	.31	3	5.89	.02	.05	1	2	1
STANDARD C/AU-S	19	61	43	131	7.2	71	31	1052	3.97	39	16	7	37	52	18.6	15	21	55	.51	.094	38	60	.89	181	.07	36	1.88	.06	.14	11	2	46

Homestake Mining (Canada) Limited PROJECT 3132 FILE # 90-4037

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 7+00N 8+00W	1	89	13	60	.1	46	19	499	5.58	10	6	ND	1	34	.4	2	2	128	.62	.110	6	56	1.17	43	.18	2	3.02	.03	.06	1	2	419
RP 7+00N 7+80W	1	81	7	84	.1	50	22	609	6.03	9	5	ND	1	34	.4	3	2	119	.48	.118	5	71	1.23	67	.21	2	3.74	.02	.06	2	2	50
RP 7+00N 7+60W	1	81	17	84	.1	56	23	534	6.31	9	5	ND	1	32	.4	2	2	124	.48	.127	5	67	1.17	67	.21	2	3.58	.02	.05	1	2	145
RP 7+00N 7+40W	1	101	2	71	.1	57	22	648	6.40	15	5	ND	1	33	.4	2	2	127	.53	.124	6	67	1.30	69	.21	2	3.46	.03	.05	1	2	19
RP 7+00N 7+20W	1	123	10	93	.1	63	33	553	6.20	9	5	ND	1	34	.5	3	2	117	.54	.151	5	71	1.53	54	.19	2	3.61	.03	.07	1	2	9
RP 7+00N 7+00W	1	36	10	94	.2	36	19	773	6.97	5	5	ND	2	23	.3	2	2	83	.29	.128	16	48	.64	75	.54	2	3.30	.07	.06	1	2	1
RP 7+00N 6+80W	1	72	10	54	.1	46	19	443	5.89	8	5	ND	1	30	.9	2	2	137	.52	.118	5	60	1.15	41	.20	2	2.83	.02	.04	1	2	92
RP 7+00N 6+60W	1	67	8	56	.1	47	17	434	5.37	8	5	ND	1	34	.2	2	2	127	.61	.107	5	55	1.14	38	.15	2	2.70	.02	.05	1	2	5
RP 7+00N 6+40W	1	71	14	76	.1	59	23	512	5.98	6	5	ND	1	32	.2	2	2	119	.52	.123	6	64	1.40	75	.23	2	3.67	.03	.06	1	2	4
RP 7+00N 6+20W	1	73	11	60	.1	58	21	490	5.23	9	5	ND	1	44	.2	3	2	121	.69	.064	4	71	1.47	54	.15	2	2.91	.03	.05	1	2	18
RP 7+00N 6+00W	1	57	7	110	.2	58	25	607	6.53	8	5	ND	1	33	.7	2	2	112	.54	.154	7	74	1.21	70	.32	2	3.34	.03	.06	1	2	14
RP 7+00N 5+80W	1	69	3	62	.1	65	21	674	4.95	7	5	ND	1	45	.2	2	2	111	.83	.084	3	78	1.77	71	.16	2	3.21	.03	.06	1	2	13
RP 7+00N 5+60W	1	51	2	53	.1	61	17	590	4.09	7	5	ND	1	47	.2	2	3	98	.81	.047	4	74	1.61	53	.17	3	2.62	.03	.05	1	2	17
RP 7+00N 5+40W	1	92	2	74	.1	76	24	621	5.75	10	5	ND	1	43	.2	2	2	114	.74	.049	4	88	2.01	70	.17	2	3.45	.03	.06	1	2	33
RP 7+00N 5+20W	1	90	6	68	.1	72	21	676	5.00	9	5	ND	1	49	.2	3	2	111	.85	.063	4	84	1.93	65	.16	2	3.39	.04	.05	1	2	34
RP 7+00N 5+00W	1	96	8	67	.1	81	24	605	5.56	14	5	ND	1	44	.2	3	2	115	.81	.069	4	83	2.06	64	.16	2	3.55	.03	.06	1	2	31
RP 7+00N 4+80W	1	87	12	75	.1	76	23	732	5.48	12	5	ND	1	48	.3	4	2	114	.93	.052	5	96	2.09	62	.18	2	3.18	.04	.06	1	2	14
RP 7+00N 4+60W	1	80	2	59	.1	75	21	662	4.92	12	5	ND	1	48	.2	3	2	108	.83	.037	4	87	1.98	49	.17	2	2.98	.04	.05	1	2	10
RP 7+00N 4+40W	1	80	10	80	.1	87	25	665	5.97	13	5	ND	1	45	.2	6	3	120	.82	.059	4	105	2.30	45	.18	2	3.55	.03	.06	2	2	43
RP 7+00N 4+20W	1	73	12	70	.1	89	25	634	5.58	8	5	ND	1	46	.2	3	2	118	.86	.061	4	95	2.25	60	.18	2	3.32	.04	.07	1	2	23
RP 7+00N 4+00W	1	81	10	73	.1	87	25	792	5.81	7	5	ND	1	43	.2	6	2	117	.79	.068	4	104	2.17	49	.18	2	3.46	.03	.06	1	2	19
RP 7+00N 3+80W	1	70	7	67	.1	80	22	621	5.34	9	5	ND	1	47	.2	4	2	112	.83	.056	4	93	2.09	54	.18	4	3.08	.03	.05	2	2	20
RP 7+00N 3+60W	1	119	15	87	.1	65	24	619	6.83	12	5	ND	1	38	.4	2	2	160	.74	.191	5	80	1.57	53	.16	3	3.48	.03	.06	1	2	63
RP 7+00N 3+40W	1	116	9	70	.1	38	20	714	7.32	5	5	ND	1	53	.4	2	2	185	.73	.105	6	68	.97	63	.14	2	2.63	.02	.05	1	2	6
RP 7+00N 3+20W	1	97	5	66	.1	24	15	494	5.76	4	5	ND	1	56	.2	2	2	133	.77	.110	8	45	.82	45	.20	2	2.35	.03	.04	1	2	6
RP 7+00N 3+00W	1	87	12	76	.1	60	23	655	6.28	14	5	ND	1	29	.2	2	2	148	.69	.144	4	97	1.44	37	.17	2	2.69	.02	.06	1	2	35
RP 7+00N 2+80W	1	48	8	233	.1	47	22	1418	6.45	6	5	ND	1	35	.6	2	2	125	.85	.146	5	83	1.29	63	.20	3	2.33	.02	.06	1	3	8
RP 7+00N 2+60W	1	92	16	104	.3	57	17	652	6.21	7	5	ND	1	32	.2	2	2	112	.74	.096	12	73	1.15	66	.45	2	2.85	.03	.06	3	2	7
RP 7+00N 2+40W	1	106	13	125	.7	53	19	741	6.86	8	8	ND	2	29	.2	2	3	111	.52	.140	12	73	.96	61	.43	3	3.69	.03	.05	1	2	8
RP 7+00N 2+20W	1	100	15	113	.3	78	24	656	6.91	8	5	ND	1	33	.2	2	2	146	.60	.160	5	109	1.72	61	.21	2	3.88	.02	.06	1	2	9
RP 7+00N 2+00W	1	67	14	140	.4	50	23	1121	7.00	5	5	ND	1	29	.2	2	2	126	.49	.189	10	76	1.12	60	.38	2	3.43	.03	.05	1	2	5
RP 7+00N 1+80W	1	94	18	82	.1	72	22	690	6.45	14	5	ND	1	45	.2	2	2	136	.69	.052	4	92	1.88	88	.21	2	3.86	.03	.06	1	2	5
RP 7+00N 1+40W	2	363	11	109	.6	86	29	1279	6.21	16	5	ND	1	73	.5	3	2	129	1.94	.057	7	112	1.94	95	.15	5	3.71	.03	.05	1	2	6
RP 7+00N 1+20W	1	232	15	127	.4	75	20	725	5.51	12	7	ND	1	65	.2	5	2	107	1.61	.053	8	90	1.75	82	.18	3	3.68	.03	.05	1	2	4
RP 7+00N 1+00W	3	292	9	89	.3	62	16	506	4.57	13	6	ND	1	65	.2	3	2	111	1.70	.095	9	78	1.61	67	.14	8	2.74	.03	.04	1	2	4
RP 7+00N 0+80W	1	122	10	62	.2	66	18	670	4.51	7	5	ND	1	54	.2	2	2	103	1.12	.032	5	77	1.85	51	.19	2	2.70	.03	.03	1	2	3
STANDARD C/AU-S	19	62	41	132	7.1	73	31	1052	3.99	37	20	7	38	53	18.7	15	21	55	.51	.093	37	60	.89	182	.07	37	1.91	.06	.14	11	2	47

Homestake Mining (Canada) Limited PROJECT 3132 FILE # 90-4037

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 7+00N 0+60W	1	149	15	76	.1	76	19	776	5.52	9	5	ND	1	58	.2	2	2	120	1.29	.047	6	83	2.14	77	.22	6	3.65	.03	.05	1	2	23
RP 7+00N 0+40W	1	81	8	56	.2	54	17	606	4.91	10	5	ND	1	50	.2	3	2	120	1.11	.030	5	79	1.56	72	.19	3	2.99	.03	.04	1	2	11
RP 7+00N 0+20W	2	80	10	63	.2	50	17	739	4.77	6	5	ND	1	53	.2	2	3	119	1.48	.041	6	76	1.58	88	.16	4	2.88	.03	.04	1	2	9
RP 7+00N 1+30E	1	197	12	66	.3	71	17	594	4.50	7	5	ND	1	63	.2	3	2	109	1.41	.077	7	73	1.82	37	.21	3	2.30	.03	.05	1	2	9
RP 7+00N 1+40E	1	162	16	60	.1	70	23	493	6.18	7	5	ND	1	59	.2	2	2	147	.85	.022	5	81	1.82	26	.20	2	3.82	.03	.05	1	2	30
RP L-6+00N 7+60W	1	114	13	58	.1	63	21	565	5.76	2	5	ND	1	43	.2	2	2	128	.65	.095	5	82	1.63	75	.18	4	4.65	.03	.04	2	2	29
RP L-6+00N 7+40W	1	65	18	86	.2	49	23	666	6.53	3	5	ND	1	24	.2	2	2	121	.43	.179	7	62	1.00	61	.30	2	3.75	.03	.05	2	2	12
RP L-6+00N 7+20W	1	83	9	83	.2	60	23	569	6.27	6	5	ND	1	33	.2	2	2	129	.58	.150	4	74	1.38	66	.16	2	3.92	.02	.05	1	2	12
RP L-6+00N 7+00W	1	137	10	74	.1	69	25	667	5.60	7	5	ND	1	34	.2	2	4	120	.70	.110	4	85	1.59	79	.15	2	4.00	.03	.07	1	2	143
RP L-6+00N 6+80W	1	97	4	63	.1	70	22	748	5.34	8	5	ND	1	50	.2	4	2	121	.93	.043	5	89	2.08	45	.16	3	3.38	.03	.05	1	2	15
RP L-6+00N 6+60W	1	160	8	63	.1	89	26	647	5.30	2	5	ND	1	31	.2	2	2	118	.88	.034	7	80	2.91	66	.28	2	4.93	.08	.13	1	2	22
RP L-6+00N 6+40W	1	97	9	102	.2	62	23	487	6.22	3	5	ND	1	30	.2	2	2	121	.48	.141	6	67	1.30	72	.23	2	4.21	.02	.05	1	2	12
RP L-6+00N 6+20W	1	89	9	79	.1	55	24	663	6.13	5	5	ND	1	29	.2	2	2	120	.47	.133	7	66	1.22	62	.23	2	3.58	.02	.05	1	2	13
RP L-6+00N 6+00W	1	109	10	60	.1	51	22	488	6.37	11	5	ND	1	38	.2	2	2	155	.68	.142	4	68	1.31	42	.14	2	3.27	.02	.05	1	2	52
RP L-6+00N 5+80W	1	98	9	76	.1	53	21	671	6.01	6	5	ND	1	33	.2	2	2	128	.61	.182	7	63	1.26	49	.20	2	3.68	.02	.06	1	2	72
RP L-6+00N 5+60W	1	101	13	61	.1	45	20	533	5.92	8	5	ND	1	36	.2	2	2	138	.61	.205	4	61	1.19	51	.15	2	3.94	.02	.04	1	2	21
RP L-6+00N 5+40W	1	141	13	79	.2	80	26	693	6.54	5	5	ND	1	39	.4	2	2	146	.75	.143	4	101	1.94	64	.15	2	5.37	.02	.07	2	2	20
RP L-6+00N 5+20W	1	90	12	73	.2	90	26	779	6.14	9	5	ND	1	40	.2	2	2	129	.83	.054	7	128	2.25	59	.14	2	4.47	.03	.05	1	2	29
RP L-6+00N 5+00W	1	70	13	82	.3	64	20	581	5.65	5	5	ND	1	33	.2	2	2	111	.58	.097	8	74	1.23	61	.30	2	3.78	.03	.05	2	2	24
RP L-6+00N 4+80W	1	55	17	79	.1	49	25	947	5.57	9	5	ND	1	32	.2	2	5	125	.64	.112	7	62	1.21	54	.22	2	2.93	.02	.05	1	2	17
RP L-6+00N 4+60W	2	77	14	58	.4	53	20	779	6.18	5	5	ND	1	29	.2	2	2	119	.75	.141	11	60	1.31	47	.37	2	3.54	.03	.07	2	2	14
RP L-6+00N 4+40W	3	68	19	76	.8	47	16	494	6.27	2	6	ND	2	25	.2	2	4	95	.47	.134	12	60	.73	62	.53	2	4.88	.04	.04	4	2	10
RP L-6+00N 4+20W	2	128	15	91	.7	61	20	577	6.40	2	5	ND	1	26	.2	2	2	108	.48	.105	14	71	1.26	57	.38	2	5.73	.03	.05	1	2	14
RP L-6+00N 4+00W	1	53	11	131	.5	71	28	1438	7.01	6	5	ND	1	31	.4	2	2	113	.62	.147	8	85	1.78	63	.39	2	3.09	.03	.07	1	2	6
RP L-6+00N 3+80W	1	77	14	104	.3	57	20	588	7.16	10	5	ND	1	42	.7	3	2	130	.71	.153	8	72	1.34	48	.36	2	3.13	.03	.06	1	2	13
RP L-6+00N 3+60W	2	232	12	114	.6	57	19	792	6.93	2	5	ND	2	29	.2	2	2	112	.51	.102	20	77	.84	52	.52	2	5.01	.04	.04	1	2	15
RP L-6+00N 3+40W	1	58	11	153	.7	49	23	667	7.21	2	5	ND	1	22	.2	2	2	128	.36	.213	8	72	1.08	53	.39	2	3.69	.02	.06	1	2	6
RP L-6+00N 3+20W	1	164	11	63	.4	67	23	739	5.35	8	5	ND	1	39	.2	2	3	130	.75	.070	4	80	1.59	60	.17	2	3.80	.03	.06	1	2	29
RP L-6+00N 3+00W	2	93	6	109	.5	64	24	706	6.84	2	5	ND	1	30	.2	2	2	146	.56	.131	5	86	1.49	72	.22	5	5.13	.02	.07	1	2	155
RP L-6+00N 2+80W	1	148	11	73	.7	86	27	797	5.99	12	5	ND	1	39	.3	3	2	129	1.10	.096	5	94	2.22	40	.17	4	3.94	.03	.08	1	2	16
RP L-6+00N 2+60W	1	109	13	69	.6	66	21	693	4.77	9	5	ND	1	43	.2	2	2	116	1.25	.057	5	85	1.54	50	.15	4	2.97	.03	.05	1	2	15
RP L-6+00N 2+40W	1	163	13	69	.1	76	23	730	5.69	4	5	ND	1	57	.2	2	2	125	.87	.055	5	95	2.09	54	.17	2	4.52	.03	.06	1	2	23
RP L-6+00N 2+20W	1	103	15	141	.5	77	23	793	6.54	2	5	ND	1	42	.2	2	2	137	.74	.085	5	102	1.96	57	.19	3	5.14	.02	.05	1	2	17
RP L-6+00N 2+00W	1	110	16	94	.2	86	24	676	6.41	2	5	ND	1	43	.2	2	2	126	.96	.044	5	83	2.27	54	.21	2	4.71	.03	.05	1	2	13
RP L-6+00N 1+80W	1	55	9	61	.1	41	15	590	4.26	8	6	ND	1	45	.2	2	2	105	1.07	.033	4	59	1.43	58	.19	2	2.43	.03	.05	1	2	3
RP L-6+00N 0+80W	1	166	10	94	.1	65	19	1017	5.09	12	5	ND	1	65	.2	2	2	114	1.83	.117	8	86	2.04	67	.18	3	3.24	.04	.06	1	2	13
STANDARD C/AU-S	19	62	42	132	7.3	72	32	1054	3.97	42	18	7	37	53	18.4	15	22	56	.51	.094	38	61	.90	181	.08	37	1.89	.06	.14	13	2	49

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP L-6+00N 0+40E	1	97	14	65	.1	64	21	837	5.52	10	5	ND	1	54	.2	2	3	123	.92	.039	5	75	2.16	57	.22	2	3.31	.03	.04	1	2	5
RP L-6+00N 0+60E	1	225	7	75	.2	64	23	643	5.91	10	5	ND	1	35	.2	2	2	129	.54	.096	5	72	1.66	41	.18	2	4.04	.02	.05	1	2	5
RP L-6+00N 0+80E	1	91	5	74	.2	75	24	596	5.70	12	5	ND	1	35	.2	2	2	122	.55	.077	4	82	1.75	118	.16	2	3.80	.03	.05	1	2	7
RP L-6+00N 1+00E	1	242	10	81	.3	78	24	854	6.13	21	5	ND	1	52	.2	7	2	125	1.07	.058	9	95	2.33	61	.19	2	3.45	.03	.06	1	2	8
RP L-6+00N 1+60E	1	474	11	90	.7	85	27	753	5.77	12	6	ND	1	95	.2	2	3	116	1.61	.081	21	91	2.17	68	.16	3	3.90	.03	.04	1	2	8
RP L-6+00N 1+80E	1	79	5	68	.1	80	21	586	5.24	14	5	ND	1	43	.2	4	2	112	.69	.047	4	74	2.46	25	.21	2	2.65	.02	.03	1	2	8
RP L-6+00N 2+00E	1	79	9	82	.2	86	24	908	5.86	20	5	ND	1	43	.2	4	3	122	.79	.061	3	79	2.73	56	.20	3	3.21	.03	.08	1	2	10
RP L-6+00N 2+20E	1	170	3	67	.1	94	24	791	5.11	12	5	ND	1	48	.2	4	2	115	.95	.046	4	86	2.72	45	.19	2	2.91	.02	.04	1	2	6
RP L-6+00N 2+40E	1	108	14	89	.7	75	27	890	7.76	19	5	ND	1	34	.2	2	2	164	.56	.111	5	94	2.30	56	.27	2	4.10	.03	.10	1	2	6
RP L-6+00N 2+60E	1	83	12	92	.1	86	29	711	7.52	18	5	ND	1	31	.6	5	2	152	.49	.094	3	88	3.06	48	.24	2	3.98	.02	.05	1	2	2
RP L-5+00N 7+60W	1	44	8	98	.3	44	22	819	7.32	4	5	ND	3	16	.2	2	2	89	.22	.259	14	51	.67	74	.50	2	4.32	.04	.05	1	2	3
RP L-5+00N 7+40W	1	98	4	103	.3	52	21	644	6.29	8	5	ND	1	26	.2	2	2	122	.41	.187	7	63	1.17	67	.24	2	3.79	.02	.05	1	2	5
RP L-5+00N 7+20W	1	111	12	76	.2	54	20	562	5.27	5	8	ND	1	37	.2	2	4	107	.55	.096	4	62	1.26	57	.17	2	2.89	.02	.06	1	2	16
RP L-5+00N 7+00W	1	100	9	84	.1	64	22	570	6.10	10	5	ND	1	35	.2	2	2	116	.46	.085	5	71	1.47	63	.22	2	3.44	.02	.06	1	2	15
RP L-5+00N 6+80W	1	73	11	101	.2	52	22	602	6.70	8	5	ND	3	18	.4	2	2	97	.31	.182	10	57	1.08	40	.44	2	3.70	.03	.05	1	2	9
RP L-5+00N 6+60W	1	134	9	89	.3	55	29	866	6.54	4	5	ND	1	29	.3	2	2	107	.50	.130	9	57	1.18	48	.31	2	2.98	.03	.05	1	2	6
RP L-5+00N 6+40W	1	50	11	76	.2	46	18	444	5.72	8	5	ND	1	30	.2	2	2	110	.46	.112	4	56	1.03	65	.21	2	2.53	.02	.04	1	2	4
RP L-5+00N 6+20W	1	98	16	66	.2	67	22	696	5.51	9	5	ND	1	50	.2	3	2	117	.73	.057	5	80	1.77	81	.17	3	3.39	.03	.06	1	2	14
RP L-5+00N 6+00W	1	125	9	60	.1	54	20	536	5.16	10	5	ND	1	53	.2	3	2	113	.66	.078	5	72	1.46	88	.12	2	3.13	.02	.04	1	2	14
RP L-5+00N 5+80W	1	72	10	147	.4	53	24	789	6.34	9	5	ND	1	32	.2	2	2	103	.45	.155	10	67	1.21	74	.31	2	3.33	.03	.06	1	2	10
RP L-5+00N 5+60W	1	87	8	77	.1	48	20	655	5.50	6	5	ND	1	39	.7	2	2	113	.51	.124	7	54	1.21	59	.22	2	2.75	.02	.05	1	2	12
RP L-5+00N 5+40W	1	82	12	77	.3	45	19	543	5.07	7	7	ND	1	46	.2	2	4	114	.53	.115	6	57	1.14	95	.16	2	2.64	.02	.05	1	2	10
RP L-5+00N 5+20W	1	98	11	81	.3	65	21	506	5.35	9	5	ND	2	30	.2	2	2	103	.38	.170	8	75	1.25	92	.25	2	4.21	.02	.05	1	2	8
RP L-5+00N 5+00W	1	115	8	58	.2	46	20	641	5.51	13	5	ND	1	35	.2	3	2	127	.52	.123	6	57	1.14	58	.13	2	3.03	.02	.04	1	2	10
RP L-5+00N 4+80W	1	62	13	147	.4	51	22	896	7.41	7	5	ND	1	25	.2	2	2	111	.42	.346	9	56	1.05	68	.37	2	2.93	.03	.05	1	2	6
RP L-5+00N 4+60W	1	129	12	115	.5	81	23	792	7.03	8	5	ND	1	30	.2	2	4	114	.59	.158	8	82	1.55	88	.35	2	3.54	.03	.07	1	2	10
RP L-5+00N 4+40W	1	112	13	67	.2	55	23	791	5.62	8	5	ND	1	36	.2	3	2	119	.63	.113	5	59	1.26	48	.19	4	2.57	.03	.05	1	2	30
RP L-5+00N 4+20W	2	109	6	73	.6	52	27	790	7.09	10	5	ND	1	26	.4	2	2	111	.60	.116	9	71	1.12	60	.37	2	2.78	.03	.08	1	2	31
RP L-5+00N 4+00W	1	108	12	66	.3	75	23	582	5.64	17	6	ND	1	40	.2	5	2	121	.61	.087	4	94	1.73	74	.16	2	3.34	.03	.05	1	2	23
RP L-5+00N 3+80W	1	108	12	62	.1	76	21	711	5.47	11	5	ND	1	46	.2	3	2	115	.78	.051	5	92	1.99	66	.15	2	3.33	.03	.05	1	2	39
RP L-5+00N 3+60W	1	119	7	66	.3	63	20	586	5.26	12	5	ND	1	34	.2	3	2	111	.67	.065	5	81	1.54	56	.17	2	2.79	.02	.04	1	2	27
RP L-5+00N 3+40W	1	142	7	60	.2	83	24	621	5.76	11	5	ND	1	29	.2	5	2	111	.62	.060	4	75	2.08	51	.17	2	3.18	.03	.06	1	2	41
RP L-5+00N 3+20W	1	112	11	70	.2	81	22	681	5.65	12	6	ND	1	39	.2	5	2	122	.69	.052	4	87	2.02	68	.15	2	3.57	.02	.05	1	2	16
RP L-5+00N 3+00W	1	57	12	77	.4	44	14	408	4.26	5	5	ND	1	32	.2	2	4	104	.53	.061	5	59	1.16	56	.19	2	2.28	.02	.04	1	2	17
RP L-5+00N 2+80W	1	100	10	67	.3	79	24	568	5.26	13	9	ND	1	32	.2	4	2	119	.58	.074	4	96	1.86	48	.16	2	3.51	.02	.04	1	2	32
RP L-5+00N 2+60W	1	94	10	80	.1	77	22	566	5.71	15	5	ND	1	28	.2	2	2	115	.51	.115	6	91	1.62	55	.24	2	3.40	.02	.06	1	2	10
STANDARD C/AU-S	18	58	42	131	6.9	72	31	1050	3.95	40	20	7	37	52	19.0	15	20	56	.50	.093	36	58	.86	183	.08	33	1.87	.06	.14	11	2	51

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 5+00N 2+40W	1	89	6	67	.2	78	22	855	4.17	8	5	ND	1	45	.2	4	2	97	1.09	.060	4	104	2.03	51	.16	8	2.29	.03	.06	2	2	6
RP 5+00N 2+00W	1	120	7	71	.2	51	15	598	3.95	10	5	ND	1	62	.2	2	2	87	1.30	.077	5	62	1.65	60	.14	5	2.50	.04	.06	1	2	14
RP 5+00N 0+60W	1	137	13	76	.5	58	18	659	3.88	7	5	ND	1	66	.4	2	4	94	1.48	.077	6	59	1.78	41	.15	4	2.55	.03	.05	2	2	23
RP 5+00N 0+20W	1	192	3	71	.4	56	17	728	4.29	6	5	ND	1	71	.4	2	2	98	1.65	.066	6	65	1.77	45	.11	4	2.74	.03	.05	1	2	18
RP 5+00N 1+60E	3	251	11	116	.4	66	18	674	4.40	24	5	ND	1	60	.4	2	2	98	1.34	.085	8	76	1.72	71	.16	4	2.63	.04	.08	1	2	8
RP 5+00N 2+40E	1	402	8	78	.3	73	21	722	5.10	32	5	ND	1	40	.8	2	2	125	.90	.055	14	63	1.73	40	.35	3	3.20	.04	.04	1	2	7
RP 5+00N 2+60E	1	219	13	100	.4	74	34	828	5.86	128	5	ND	1	49	.7	2	4	145	.74	.060	4	69	2.30	28	.21	3	3.63	.02	.07	1	2	4
RP 4+00N 7+60W	1	45	8	95	.1	99	28	848	5.25	3	5	ND	1	31	.9	2	2	91	.64	.086	4	96	2.62	69	.30	4	2.90	.03	.08	1	2	9
RP 4+00N 7+40W	2	77	4	62	.2	61	21	436	5.45	9	5	ND	1	29	.8	2	2	103	.51	.084	6	59	1.58	46	.31	4	3.35	.03	.05	1	2	14
RP 4+00N 7+20W	1	92	7	64	.1	60	22	611	4.61	10	5	ND	1	33	.2	2	2	103	.58	.042	3	79	1.86	55	.15	3	2.84	.02	.05	2	2	10
RP 4+00N 7+00W	2	53	8	111	.3	59	25	689	6.10	5	5	ND	1	25	.8	2	2	97	.43	.155	9	53	1.21	59	.44	2	3.07	.03	.05	1	2	6
RP 4+00N 6+80W	2	152	12	84	.3	80	22	635	6.85	15	5	ND	2	35	.8	2	2	113	.50	.095	12	87	1.27	120	.40	2	5.03	.03	.07	1	2	11
RP 4+00N 6+60W	1	68	9	76	.2	58	23	805	5.78	3	5	ND	2	34	.7	3	2	100	.47	.113	8	64	1.21	83	.35	2	3.31	.03	.05	1	2	17
RP 4+00N 6+40W	1	68	14	92	.4	56	25	710	6.04	3	5	ND	2	31	.7	2	2	106	.41	.119	9	69	1.27	72	.34	3	3.56	.03	.05	1	2	9
RP 4+00N 6+20W	1	106	13	61	.2	65	27	498	6.04	16	5	ND	1	33	.2	2	2	127	.45	.144	3	71	1.48	54	.15	3	3.75	.02	.05	1	2	41
RP 4+00N 6+00W	1	105	10	73	.2	73	30	956	5.75	9	5	ND	1	33	.4	2	2	125	.60	.162	3	97	1.97	49	.12	2	3.14	.02	.06	2	2	8
RP 4+00N 5+80W	1	60	11	88	.2	48	23	646	5.61	6	5	ND	2	33	.6	3	2	98	.53	.103	10	58	1.25	44	.36	2	2.88	.03	.05	1	2	14
RP 4+00N 5+60W	1	46	10	161	.5	44	25	869	5.43	3	5	ND	2	25	.7	2	2	99	.46	.147	7	56	1.04	54	.28	2	2.58	.02	.05	1	2	10
RP 4+00N 5+40W	1	56	9	89	.2	66	25	610	5.06	6	5	ND	1	31	.2	2	2	110	.59	.089	3	73	1.52	58	.15	2	2.99	.03	.05	1	2	11
RP 4+00N 5+20W	1	110	8	69	.2	71	25	518	5.01	10	5	ND	1	39	.2	2	2	110	.65	.077	3	73	1.63	60	.13	3	3.35	.03	.04	1	2	21
RP 4+00N 5+00W	1	48	13	137	.4	48	24	554	5.90	4	5	ND	1	26	.4	3	2	119	.44	.149	5	59	1.09	60	.23	2	2.77	.02	.04	1	2	11
RP 4+00N 4+80W	2	87	9	62	.2	60	21	541	4.87	7	5	ND	1	34	.2	2	2	102	.51	.092	4	67	1.41	48	.18	6	3.05	.03	.04	1	2	31
RP 4+00N 4+60W	1	63	3	110	.1	50	23	579	5.94	2	5	ND	2	28	.8	2	2	112	.35	.168	7	54	1.19	83	.35	4	3.46	.02	.04	1	2	7
RP 4+00N 4+40W	2	61	17	68	.1	41	20	524	5.93	11	5	ND	1	26	.2	2	2	136	.49	.173	5	55	1.01	39	.23	4	3.65	.02	.04	1	2	12
RP 4+00N 4+20W	2	50	16	141	.1	33	19	661	5.86	4	5	ND	3	22	.2	2	2	106	.35	.280	8	48	.78	67	.32	3	4.12	.02	.05	1	2	7
RP 4+00N 4+00W	1	116	10	69	.2	62	22	666	5.27	12	5	ND	1	34	.2	2	2	113	.56	.111	5	75	1.58	48	.16	3	3.39	.02	.05	1	2	31
RP 4+00N 3+80W	2	48	19	122	.2	38	22	1474	5.94	4	5	ND	2	25	.3	2	4	113	.42	.187	7	54	.89	57	.32	2	2.68	.02	.05	1	2	19
RP 4+00N 3+60W	1	111	11	70	.1	68	25	582	5.40	14	5	ND	1	38	.2	2	2	107	.64	.107	4	78	1.69	58	.17	4	3.53	.03	.04	1	2	34
RP 4+00N 3+40W	2	145	6	61	.1	75	28	607	5.55	17	5	ND	1	37	.2	2	2	112	.61	.092	4	91	1.81	43	.14	4	3.39	.03	.04	1	2	70
RP 4+00N 3+20W	2	37	18	181	.5	34	20	650	5.67	4	5	ND	2	19	.4	2	2	105	.35	.184	8	54	.77	54	.34	2	2.54	.02	.05	1	2	25
RP 4+00N 3+00W	2	67	20	134	.5	39	26	706	6.53	10	5	ND	2	22	.2	2	2	115	.46	.209	10	64	.92	57	.35	2	2.98	.03	.07	1	2	14
RP 4+00N 2+80W	1	79	8	93	.3	52	20	812	4.51	11	5	ND	1	28	.2	3	2	101	.62	.088	6	84	1.25	64	.21	4	2.57	.03	.05	1	2	3
RP 4+00N 2+60W	1	100	11	68	.2	73	23	764	4.76	12	5	ND	1	43	.2	4	2	105	.80	.061	5	85	1.87	58	.14	4	3.03	.03	.04	1	2	20
RP 4+00N 2+40W	1	93	11	72	.2	88	24	627	4.92	8	5	ND	1	34	.2	2	2	109	.70	.069	3	82	2.09	59	.16	3	3.24	.03	.05	1	2	14
RP 4+00N 2+20W	1	71	11	74	.3	128	28	561	5.34	6	5	ND	1	26	.3	2	2	113	1.02	.054	3	80	3.02	56	.21	6	3.56	.10	.06	1	2	26
RP 4+00N 2+00W	1	136	9	78	.2	85	25	680	5.15	14	5	ND	1	46	.4	2	3	114	.90	.055	5	82	2.03	58	.17	3	3.48	.03	.04	1	2	22
STANDARD C/AU-S	20	57	39	132	6.9	73	32	1053	3.97	40	20	7	39	56	19.6	16	18	57	.52	.097	39	59	.90	183	.08	38	1.89	.06	.13	12	2	48

Homestake Mining (Canada) Limited PROJECT 3132 FILE # 90-4037

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 4+00N 1+80W	2	89	4	70	.2	93	25	668	5.38	17	5	ND	1	48	.6	2	2	126	1.03	.028	3	95	2.36	41	.14	3	3.42	.03	.03	2	2	108
RP 4+00N 0+80W	2	71	4	99	.4	46	20	375	5.44	4	5	ND	1	29	.2	3	2	143	.56	.073	5	53	1.04	38	.17	3	3.15	.03	.05	1	2	9
RP 4+00N 0+60W	1	111	2	60	.3	44	20	631	4.94	6	5	ND	1	42	.2	3	5	141	.81	.094	7	53	1.12	49	.12	2	2.68	.03	.07	2	2	7
RP 4+00N 0+40W	1	84	5	142	.2	49	19	491	5.08	4	5	ND	2	26	.2	2	3	113	.54	.205	6	59	1.17	53	.18	5	4.43	.03	.06	1	2	13
RP 4+00N 0+20W	1	81	11	112	1.0	54	20	494	5.32	5	6	ND	1	28	.7	3	3	125	.57	.156	5	60	1.26	53	.16	2	3.66	.03	.06	1	3	8
RP 4+00N 0+00E	1	79	2	102	.7	55	22	431	5.73	5	5	ND	1	25	.2	2	2	123	.55	.165	6	65	1.30	58	.22	2	4.05	.03	.06	1	2	23
RP 4+00N 0+80E	2	94	5	100	.5	41	21	608	5.10	5	5	ND	1	76	.3	2	4	122	1.26	.073	3	51	1.32	39	.11	4	3.76	.03	.07	2	2	15
RP 4+00N 1+00E	1	154	11	83	.1	48	20	818	4.25	10	5	ND	1	69	.3	2	2	107	1.37	.058	6	66	1.56	62	.13	3	2.77	.03	.04	1	2	27
RP 4+00N 1+40E	2	121	5	70	.4	60	24	641	5.93	19	5	ND	1	63	.7	2	2	145	1.18	.075	5	83	1.72	40	.16	5	3.87	.03	.06	2	2	15
RP 4+00N 1+60E	1	74	4	63	.3	79	26	517	5.66	2	5	ND	1	40	.6	2	2	145	.68	.141	6	107	1.89	35	.24	5	4.86	.02	.03	1	2	6
RP 4+00N 1+80E	1	69	2	72	.1	93	28	728	5.01	6	5	ND	1	42	.6	2	2	113	1.23	.121	3	73	2.97	20	.22	2	3.73	.02	.04	1	2	3
RP 4+00N 2+00E	2	67	7	89	.2	80	25	591	5.40	2	5	ND	1	56	.3	2	5	135	1.27	.067	3	84	2.47	30	.25	3	3.07	.02	.05	2	3	4
RP 4+00N 2+20E	4	87	6	91	.1	61	24	1124	5.97	2	5	ND	1	51	.9	2	2	150	1.14	.047	7	92	1.91	43	.39	2	2.91	.03	.05	1	4	6
RP 4+00N 2+40E	2	586	6	82	.7	37	16	654	5.24	4	8	ND	1	62	.9	2	3	128	1.90	.099	23	49	.75	54	.43	3	2.77	.06	.04	1	6	7
RP 4+00N 2+60E	1	122	2	70	.1	85	31	792	5.83	3	5	ND	1	34	.8	2	2	156	1.09	.082	3	51	3.70	13	.30	2	3.76	.03	.15	1	3	3
RP 4+00N 2+80E	1	200	9	89	.2	52	23	743	5.70	7	5	ND	1	64	.5	2	2	146	1.01	.027	8	65	1.96	56	.23	3	3.84	.03	.06	1	2	12
RP 4+00N 3+00E	1	100	4	83	.2	80	32	688	6.29	4	5	ND	1	38	.7	2	2	145	.53	.037	4	68	2.83	56	.25	2	4.48	.02	.07	2	3	6
RP L3+00N 7+00W	2	80	4	142	.5	56	29	1167	6.39	4	5	ND	2	28	1.2	2	3	106	.49	.131	11	58	1.17	64	.43	2	3.27	.03	.06	1	2	6
RP L3+00N 6+80W	1	85	6	84	.3	60	23	648	5.20	8	5	ND	1	48	.3	3	2	107	.65	.085	7	71	1.48	75	.24	2	3.51	.03	.05	1	2	15
RP L3+00N 6+60W	1	88	7	93	.4	61	24	899	5.54	11	5	ND	1	53	.7	4	4	125	.73	.068	6	90	1.79	98	.18	3	3.67	.03	.06	1	2	17
RP L3+00N 6+40W	1	98	10	78	.2	72	26	601	5.74	9	5	ND	1	44	.7	3	2	134	.67	.138	3	88	1.77	77	.14	2	3.75	.03	.07	1	2	12
RP L3+00N 6+20W	1	93	2	69	.1	60	23	701	5.33	6	5	ND	1	53	.5	2	8	121	.68	.071	6	89	1.67	87	.18	4	3.52	.03	.05	1	2	23
RP L3+00N 6+00W	1	104	4	64	.2	60	23	567	5.33	11	5	ND	1	50	.2	2	2	126	.63	.075	5	92	1.54	82	.16	2	3.23	.03	.04	1	2	46
RP L3+00N 5+80W	1	182	6	53	.5	60	29	578	6.11	18	5	ND	1	44	.4	2	2	161	.73	.222	4	71	1.50	36	.11	3	3.95	.02	.07	2	2	29
RP L3+00N 5+60W	1	70	4	53	.2	57	22	675	4.65	7	5	ND	1	39	.6	2	2	101	.64	.092	5	67	1.46	64	.17	2	2.82	.02	.05	1	2	40
RP L3+00N 5+40W	1	97	6	121	.5	69	29	571	5.91	12	5	ND	2	33	.4	3	2	123	.52	.122	7	75	1.62	62	.24	3	3.37	.03	.07	1	2	17
RP L3+00N 5+20W	1	115	6	63	.2	67	25	476	5.45	13	5	ND	1	32	.2	2	2	133	.53	.076	3	76	1.46	50	.14	3	3.09	.02	.06	1	2	44
RP L3+00N 5+00W	1	72	4	77	.3	70	26	643	6.27	11	5	ND	1	34	.4	3	2	138	.66	.110	4	76	1.58	66	.24	2	2.65	.03	.06	1	2	167
RP L3+00N 4+80W	2	72	9	110	.5	58	23	762	5.70	10	7	ND	1	31	.8	2	2	111	.58	.122	6	70	1.33	59	.26	3	2.89	.03	.06	1	2	41
RP L3+00N 4+60W	2	211	6	94	.9	39	15	660	4.61	2	5	ND	1	36	.3	2	2	82	.69	.093	21	55	.75	68	.33	2	3.03	.03	.04	1	2	13
RP L3+00N 4+40W	1	151	4	64	.3	84	27	595	5.59	19	5	ND	1	35	.6	5	2	122	.69	.052	4	98	1.83	50	.15	2	3.34	.02	.06	2	2	353
RP L3+00N 4+20W	1	167	3	118	.6	91	25	850	5.70	8	5	ND	1	39	.3	2	2	108	.68	.073	9	99	1.80	108	.27	2	4.20	.03	.06	1	2	13
RP L3+00N 4+00W	1	104	2	67	.2	79	23	723	5.03	14	5	ND	1	51	.2	2	2	111	.85	.055	4	94	1.99	62	.16	4	3.38	.03	.05	1	2	31
RP L3+00N 3+80W	2	101	11	75	.3	70	25	748	6.09	8	5	ND	1	33	1.1	2	2	109	.67	.097	9	72	1.62	73	.39	2	3.53	.04	.07	1	2	14
RP L3+00N 3+60W	2	104	7	88	.2	73	26	810	5.91	6	5	ND	1	33	.6	2	2	107	.60	.103	7	74	1.57	70	.35	2	3.28	.03	.06	1	2	10
RP L3+00N 3+40W	1	114	2	72	.3	98	24	690	4.89	12	5	ND	1	36	.5	4	2	99	.72	.053	4	76	2.35	50	.17	3	3.15	.03	.04	1	2	39
STANDARD C/AU-S	19	57	38	132	7.1	72	31	1051	3.94	40	18	7	38	53	18.9	15	21	55	.52	.095	38	57	.89	181	.07	36	1.92	.06	.14	11	2	55

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP L3+00N 3+20W	1	69	12	93	.3	61	23	755	7.01	22	5	ND	1	27	.4	3	2	140	.56	.128	7	84	1.56	54	.38	2	2.69	.03	.07	1	2	11
RP L3+00N 3+00W	1	119	13	71	.2	89	25	770	5.93	19	5	ND	1	41	.2	3	2	119	.77	.064	5	92	2.23	68	.17	2	3.52	.03	.05	1	2	21
RP L3+00N 2+80W	1	116	7	81	.2	77	22	709	6.09	20	5	ND	1	41	.3	2	2	120	.68	.054	5	92	1.99	55	.19	2	3.43	.03	.05	1	2	44
RP L3+00N 2+60W	1	79	9	58	.1	60	20	626	4.73	14	5	ND	1	33	.2	2	2	104	.73	.075	3	65	1.63	39	.15	2	2.48	.03	.04	1	2	9
RP L3+00N 2+40W	1	97	16	99	.4	60	19	588	5.72	14	6	ND	1	28	.2	3	3	116	.55	.093	7	79	1.51	57	.26	2	3.10	.03	.05	1	2	13
RP L3+00N 2+20W	1	147	10	74	.1	69	21	679	5.76	21	5	ND	1	36	.2	4	2	125	.69	.069	4	85	1.78	77	.14	2	3.52	.03	.07	1	2	16
RP L3+00N 2+00W	1	95	11	66	.1	60	20	734	5.30	18	5	ND	1	44	.2	2	3	120	.74	.062	4	80	1.67	79	.15	2	3.19	.03	.06	1	2	11
RP L3+00N 1+80W	1	114	8	66	.1	64	21	741	5.44	19	5	ND	1	45	.2	3	2	117	.74	.067	5	84	1.77	84	.15	2	3.31	.03	.05	1	3	25
RP L3+00N 1+60W	1	121	9	64	.1	55	16	676	4.92	13	5	ND	1	48	.2	2	2	106	.74	.050	12	82	1.51	79	.20	2	3.11	.03	.05	1	2	14
RP L3+00N 1+40W	1	96	12	80	.1	76	22	815	5.63	11	5	ND	1	52	.2	3	2	132	1.01	.062	6	93	2.20	42	.18	2	3.25	.04	.04	1	2	18
RP L3+00N 1+20W	1	98	6	70	.1	84	23	744	5.53	9	5	ND	1	55	.2	4	2	136	1.04	.045	4	91	2.42	36	.17	2	3.22	.04	.04	1	2	17
RP L3+00N 1+00W	1	124	9	77	.2	76	23	871	5.21	7	5	ND	1	52	.2	4	2	125	1.10	.038	5	86	2.31	38	.13	2	3.08	.03	.04	1	2	20
RP L3+00N 0+80W	1	105	16	115	.3	43	18	670	5.68	10	5	ND	1	42	.5	2	2	110	.64	.125	9	64	1.00	113	.28	2	3.93	.03	.07	1	2	3
RP L3+00N 0+60W	1	110	17	89	.2	42	19	625	4.82	10	5	ND	1	41	.2	2	2	112	.65	.090	4	56	1.24	79	.16	3	3.27	.02	.06	1	2	4
RP L3+00N 0+40W	1	88	12	68	.1	60	19	699	4.90	9	5	ND	1	44	.2	2	2	122	.71	.061	5	89	1.67	62	.18	2	2.96	.03	.04	1	2	20
RP L3+00N 0+20W	1	128	5	82	.1	66	21	760	5.64	14	5	ND	1	45	.2	6	2	127	.70	.066	5	93	1.88	69	.17	2	3.56	.03	.05	1	2	8
RP L3+00N 0+00	1	136	9	89	.2	82	23	750	5.75	10	5	ND	1	53	.2	5	2	132	.90	.051	5	92	2.28	50	.17	2	3.74	.03	.04	1	2	24
RP L3+00N 0+20E	1	124	13	96	.3	70	22	712	6.11	10	5	ND	1	41	.2	2	3	134	.67	.058	4	84	1.90	60	.18	2	3.74	.03	.05	1	2	20
RP L3+00N 0+40E	1	135	13	82	.1	86	24	684	5.61	10	5	ND	1	49	.3	3	3	125	.80	.055	4	84	2.07	67	.17	2	3.91	.03	.05	1	2	11
RP L3+00N 0+80E	1	158	16	93	.2	57	23	821	6.56	19	5	ND	1	58	.3	3	2	142	.85	.037	4	74	1.81	85	.18	2	4.52	.03	.07	1	2	17
RP L3+00N 1+00E	1	139	13	96	.2	48	15	735	4.78	7	5	ND	1	74	.3	4	2	110	1.48	.032	4	71	1.79	46	.13	4	3.22	.04	.05	1	2	16
RP L3+00N 1+20E	1	150	15	105	.3	58	24	1058	5.48	11	5	ND	1	84	.3	2	2	111	1.78	.056	4	80	1.83	45	.12	2	3.32	.03	.07	1	2	7
RP L3+00N 1+80E	2	100	10	79	.2	44	22	689	6.52	22	5	ND	1	60	.2	5	2	158	1.15	.038	4	65	1.61	50	.15	4	3.22	.02	.08	1	2	23
RP L3+00N 2+60E	1	58	11	71	.1	90	27	648	6.47	2	5	ND	1	61	.3	6	2	146	1.08	.036	3	108	2.69	19	.25	3	3.17	.02	.02	1	2	1
RP L3+00N 2+80E	2	64	6	76	.1	63	21	633	5.96	11	5	ND	1	45	.2	5	2	126	.80	.023	5	78	1.90	65	.35	2	3.04	.03	.05	1	2	2
RP L3+00N 3+00E	1	186	8	62	.1	70	23	595	5.80	21	5	ND	1	46	.2	5	3	133	.62	.010	3	94	1.93	59	.18	2	3.58	.03	.04	1	2	8
RP L2+00N 7+00W	1	84	11	101	.2	59	25	953	6.14	11	5	ND	1	39	.2	3	2	119	.61	.081	5	74	1.54	98	.22	2	3.54	.03	.06	1	2	11
RP L2+00N 6+80W	1	84	15	61	.3	55	19	649	5.47	8	5	ND	1	46	.2	2	2	101	.71	.077	11	81	1.29	68	.27	3	3.24	.04	.05	1	2	16
RP L2+00N 6+60W	1	133	13	99	.2	74	23	845	6.87	13	5	ND	2	36	.4	3	2	116	.56	.111	10	87	1.38	108	.34	3	4.35	.03	.08	1	2	7
RP L2+00N 6+40W	1	106	10	58	.1	67	24	643	5.61	11	5	ND	1	39	.2	4	5	136	.66	.090	3	76	1.58	49	.15	4	2.99	.03	.05	1	2	6
RP L2+00N 6+20W	1	145	12	80	.2	64	22	835	5.98	11	5	ND	1	67	.2	6	2	118	1.01	.085	11	101	1.78	97	.21	3	3.48	.04	.06	1	2	16
RP L2+00N 6+00W	1	90	12	81	.2	58	22	760	6.02	8	5	ND	1	49	.3	4	2	111	.69	.101	11	88	1.53	79	.26	3	3.38	.03	.05	1	2	35
RP L2+00N 5+80W	1	72	11	126	.1	62	23	779	6.04	7	5	ND	1	48	.6	6	3	118	.77	.111	5	78	1.77	83	.19	2	3.40	.03	.06	1	2	15
RP L2+00N 5+60W	1	94	13	97	.2	82	27	590	6.30	10	5	ND	1	38	.4	4	2	137	.60	.111	3	83	1.83	77	.15	2	3.52	.03	.05	1	2	17
RP L2+00N 5+40W	1	62	16	113	.3	55	23	1040	5.96	7	5	ND	1	37	.2	5	2	112	.65	.090	7	76	1.35	61	.32	2	2.69	.03	.07	2	2	12
RP L2+00N 5+20W	1	78	10	133	.4	52	23	1160	5.13	3	5	ND	1	38	.2	3	3	107	.78	.055	7	78	1.29	68	.28	2	2.50	.03	.07	1	2	10
STANDARD C/AU-S	18	59	42	133	7.0	71	31	1052	3.95	39	18	7	36	53	18.6	15	23	56	.51	.093	37	58	.89	179	.07	36	1.91	.06	.14	11	2	51

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP L1+00N 6+60W	1	77	7	63	.2	60	20	693	4.77	14	5	ND	1	46	.6	3	4	117	.97	.044	4	72	1.65	82	.17	5	3.00	.03	.05	2	2	11
RP L1+00N 6+40W	1	113	8	60	.1	55	20	844	4.70	11	5	ND	1	56	.4	2	2	117	1.13	.052	5	66	1.64	67	.16	4	2.87	.03	.06	1	2	12
RP L1+00N 6+20W	1	137	6	63	.2	89	25	659	5.19	8	5	ND	1	51	.5	2	2	131	1.00	.027	4	100	2.01	58	.17	2	3.44	.04	.04	1	2	20
RP L1+00N 6+00W	2	126	6	90	.7	65	27	729	6.38	10	5	ND	2	52	1.1	2	2	130	.72	.055	11	95	1.53	86	.28	2	4.71	.03	.05	1	2	9
RP L1+00N 5+80W	1	68	13	109	.3	44	22	814	5.81	6	5	ND	2	54	.3	2	3	112	.71	.110	15	58	1.05	94	.32	2	3.54	.04	.04	1	2	10
RP L1+00N 5+60W	1	99	4	88	.2	72	25	645	5.61	14	5	ND	1	48	.6	2	2	131	.84	.078	5	88	1.79	73	.19	3	3.80	.03	.06	2	2	5
RP L1+00N 5+40W	1	127	10	82	.4	68	23	885	5.67	12	5	ND	1	71	.4	2	3	129	1.23	.077	10	103	1.94	106	.20	2	3.67	.04	.06	1	2	19
RP L1+00N 5+20W	1	75	7	61	.1	67	22	666	4.90	10	5	ND	1	64	.3	3	5	117	1.01	.065	3	77	1.95	72	.17	4	3.03	.03	.05	1	2	18
RP L0+00N 6+00W	1	123	15	88	.3	80	29	763	6.17	16	5	ND	1	56	.7	2	2	135	.81	.081	6	101	2.19	87	.20	4	4.36	.03	.07	1	2	19
RP L0+00N 5+80W	1	132	10	71	.2	69	25	641	5.86	9	5	ND	1	58	.6	2	2	135	.93	.076	4	75	1.69	120	.19	4	4.25	.03	.07	1	2	7
RP L0+00N 5+60W	1	141	13	64	.5	76	27	632	5.79	10	5	ND	1	60	.9	2	2	138	.94	.076	5	82	1.96	49	.16	2	3.59	.03	.09	1	2	12
RP L0+00N 5+40W	1	100	5	63	.2	50	25	714	5.88	8	5	ND	1	75	.7	3	5	159	1.11	.092	3	60	1.66	88	.14	2	3.33	.03	.05	1	2	14
RP L0+00N 5+20W	2	171	7	68	.2	39	25	852	5.45	8	5	ND	1	113	.8	2	2	145	1.71	.106	7	46	1.65	70	.12	5	3.98	.04	.04	1	2	20
RP 4+00S 5+20E	2	318	10	66	.8	26	40	774	7.01	22	5	ND	1	83	1.5	2	2	224	1.81	.067	5	31	1.35	46	.20	5	5.56	.02	.09	1	4	8
RP 4+00S 5+40E	2	161	6	101	.4	43	27	735	6.75	39	5	ND	1	75	1.0	2	3	201	1.03	.045	3	59	1.82	64	.21	5	4.36	.02	.12	2	3	30
RP 4+00S 5+60E	1	92	13	190	.6	49	26	799	6.84	29	5	ND	1	43	1.3	2	2	148	.74	.109	5	65	1.64	55	.24	3	3.44	.03	.12	1	2	34
RP 4+00S 5+80E	2	64	15	354	.3	48	24	950	6.79	24	5	ND	1	29	.7	2	2	138	.48	.145	6	74	1.41	84	.30	7	3.38	.02	.12	1	2	6
RP 4+00S 6+00E	2	91	17	186	.8	45	23	716	6.92	26	5	ND	1	42	.7	2	2	154	.58	.065	4	71	1.67	57	.24	3	3.65	.03	.09	1	2	66
RP 4+00S 6+20E	1	92	12	160	.4	52	23	709	6.69	28	5	ND	1	44	1.4	2	2	159	.79	.048	3	76	1.91	68	.24	3	3.74	.03	.12	1	2	3
RP 4+00S 6+40E	9	176	23	202	.9	45	24	493	8.32	20	5	ND	1	37	1.5	2	2	158	.50	.081	6	58	1.10	55	.24	5	3.14	.03	.08	1	2	29
RP 4+00S 6+60E	3	163	7	166	.1	48	24	553	7.05	76	5	ND	1	57	.7	2	3	152	.47	.045	4	54	1.39	60	.23	2	4.05	.02	.07	1	2	29
RP 4+00S 6+80E	2	118	12	147	.5	58	28	989	5.95	30	5	ND	1	37	1.3	2	2	136	.76	.041	4	80	1.87	90	.23	2	3.65	.03	.13	1	2	7
RP 4+00S 7+00E	1	82	9	157	.3	57	25	996	5.74	32	5	ND	1	45	1.1	3	2	130	.81	.078	3	82	2.06	77	.20	2	3.40	.03	.14	1	2	4
RP 5+00S 5+00W	2	47	17	108	.3	39	36	1350	6.15	10	5	ND	1	24	1.1	2	2	124	.54	.183	7	56	1.04	58	.28	2	2.44	.03	.08	1	2	7
RP 5+00S 4+80W	1	108	13	88	.2	53	23	621	5.04	12	5	ND	1	33	.6	2	2	106	.63	.076	5	70	1.35	81	.18	2	3.76	.03	.07	1	2	12
RP 5+00S 4+60W	1	113	11	59	.1	56	23	562	5.15	12	5	ND	1	40	.5	2	2	119	.81	.062	5	74	1.68	99	.17	6	4.06	.03	.10	1	2	11
RP 5+00S 4+40W	2	78	18	74	.3	64	27	499	5.40	8	5	ND	1	29	.6	2	10	114	.73	.083	5	79	1.53	71	.18	5	3.87	.03	.07	2	2	47
RP 5+00S 4+20W	2	48	17	92	.1	35	18	440	5.16	7	5	ND	1	30	.2	2	2	119	.68	.088	6	55	.99	63	.23	3	2.87	.03	.06	1	2	9
RP 5+00S 4+00W	1	58	14	107	.3	37	20	695	5.33	7	5	ND	1	25	.4	2	2	109	.64	.198	5	51	1.01	50	.19	4	2.78	.03	.08	1	2	9
RP 5+00S 3+80W	1	59	12	101	.3	50	51	3888	6.04	9	5	ND	1	25	.8	2	3	109	.83	.297	5	58	1.19	72	.15	5	2.73	.04	.09	1	2	68
RP 5+00S 3+60W	1	60	7	71	.2	62	26	734	6.49	6	5	ND	1	26	.5	2	5	117	.65	.111	3	67	1.25	49	.15	2	3.07	.03	.06	1	2	19
RP 5+00S 3+40W	1	75	6	77	.3	71	19	490	3.90	3	5	ND	1	42	.8	2	2	87	1.45	.050	4	61	1.88	88	.21	3	2.57	.04	.17	1	2	6
RP 5+00S 3+20W	1	60	15	69	.1	37	19	451	6.11	7	5	ND	1	37	.5	2	4	131	.75	.054	4	55	1.26	36	.22	4	2.82	.03	.05	1	2	9
RP 5+00S 3+00W	1	88	13	72	.1	50	26	570	6.12	6	5	ND	1	43	.5	2	2	120	.66	.054	5	65	1.44	62	.23	5	4.01	.03	.05	1	2	14
RP 5+00S 2+80W	1	110	10	114	.4	55	26	693	6.69	10	5	ND	1	49	.2	2	2	119	.66	.082	6	72	1.38	49	.25	7	3.98	.03	.05	1	2	11
RP 5+00S 2+60W	1	100	2	70	.2	104	30	621	5.84	36	5	ND	1	34	.2	2	7	117	.88	.066	3	96	2.34	58	.20	3	3.78	.04	.10	1	2	5
STANDARD C/AU-S	19	58	39	130	6.9	72	32	1050	3.96	40	23	7	37	53	19.0	16	19	55	.52	.095	38	58	.89	182	.07	36	1.90	.06	.14	11	2	47

Homestake Mining (Canada) Limited PROJECT 3132 FILE # 90-4037

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 5+00S 2+40W	1	133	2	155	.5	53	21	990	5.52	4	5	ND	2	43	1.1	2	2	87	1.38	.065	10	49	1.13	69	.39	4	2.84	.06	.07	1	2	4
RP 5+00S 2+20W	1	75	5	70	.1	32	20	753	5.24	4	5	ND	1	33	.2	2	5	113	1.05	.059	4	41	1.57	69	.21	2	2.85	.02	.33	1	2	3
RP 5+00S 2+00W	1	60	5	122	.6	62	27	1080	6.31	7	5	ND	2	33	.7	2	2	118	.84	.083	6	60	1.87	106	.35	2	3.15	.04	.22	1	2	7
RP 5+00S 1+80W	1	116	3	71	.2	57	22	636	5.61	12	5	ND	2	55	1.1	2	2	110	1.10	.064	5	67	1.79	62	.24	2	3.50	.04	.10	1	2	11
RP 5+00S 1+60W	1	74	2	84	.3	76	25	564	4.23	2	5	ND	1	19	.8	2	3	89	.84	.041	7	47	2.82	52	.30	2	2.72	.06	.18	1	2	2
RP 5+00S 1+40W	1	129	4	52	.2	70	27	752	5.15	7	5	ND	1	47	.7	2	7	105	1.06	.064	4	75	2.16	61	.17	2	3.30	.04	.15	1	2	11
RP 5+00S 1+20W	1	116	5	65	.2	57	27	745	5.27	9	5	ND	1	56	.3	2	6	112	1.11	.097	4	74	1.89	61	.15	4	3.45	.03	.10	1	2	11
RP 5+00S 1+00W	1	53	7	117	.2	87	29	575	6.41	2	5	ND	2	19	1.3	2	2	103	.73	.069	9	48	2.93	37	.48	2	3.40	.05	.14	1	2	5
RP 5+00S 0+20W	1	113	3	68	.5	69	27	850	5.84	8	5	ND	1	43	.7	2	3	120	.87	.082	5	80	2.15	59	.20	3	3.83	.03	.17	1	2	3
RP 5+00S 0+00 BL	1	104	2	125	.7	51	28	1267	5.96	6	5	ND	1	44	.8	2	2	117	.82	.074	7	72	1.38	56	.21	2	3.64	.02	.10	1	2	3
RP 5+00S 2+40E	1	178	6	86	.6	59	18	660	4.28	17	5	ND	1	76	.5	3	2	94	2.36	.087	6	70	1.51	98	.09	4	3.00	.03	.09	1	2	13
RP 5+00S 2+60E	2	298	9	321	.4	50	23	621	5.90	8	5	ND	2	66	3.5	2	2	115	1.34	.030	10	58	1.21	51	.29	5	3.97	.04	.05	1	2	8
RP 5+00S 3+20E	2	161	3	180	.2	52	21	697	5.40	4	5	ND	1	66	.6	2	4	114	1.30	.035	4	58	1.48	48	.12	3	3.71	.03	.08	1	2	7
RP 5+00S 3+40E	1	485	8	465	.7	24	14	1101	4.45	10	5	ND	1	94	1.0	2	6	72	2.16	.055	12	29	1.17	37	.04	3	4.02	.02	.09	1	2	447
RP 5+00S 3+60E	4	531	8	430	.5	44	26	1715	5.37	8	5	ND	1	55	3.9	2	2	111	1.26	.048	12	48	.95	61	.18	6	2.98	.03	.06	1	2	6
RP 5+00S 3+80E	2	227	2	130	.2	59	24	763	5.64	6	5	ND	1	74	.4	2	2	127	1.25	.030	4	74	1.90	66	.12	2	4.56	.03	.09	1	2	15
RP 5+00S 4+00E	7	262	4	170	.8	35	30	924	6.31	9	5	ND	1	70	.9	2	2	133	1.27	.096	6	41	1.04	40	.10	2	3.31	.02	.06	1	2	104
RP 5+00S 4+20E	4	89	10	193	.8	37	23	706	5.63	5	5	ND	1	71	1.5	2	4	126	1.22	.060	6	47	.97	67	.27	3	2.61	.03	.08	1	2	28
RP 5+00S 4+40E	3	200	6	241	.7	55	24	1114	6.01	5	5	ND	1	56	1.9	2	2	103	1.17	.076	13	46	1.08	53	.40	2	3.14	.04	.07	1	2	13
RP 5+00S 4+60E	4	116	7	271	.6	27	26	1696	5.76	4	5	ND	1	54	2.3	2	2	111	1.06	.066	10	40	.79	56	.24	2	2.80	.03	.09	1	2	40
RP 5+00S 4+80E	3	167	11	188	1.0	19	22	886	5.49	18	5	ND	1	114	.9	3	2	93	1.96	.095	6	23	.92	32	.09	2	4.47	.02	.15	1	2	72
RP 5+00S 5+00E	4	113	12	264	1.0	21	20	961	5.20	5	5	ND	1	61	1.5	2	3	108	1.12	.055	10	33	.81	38	.16	2	2.92	.02	.08	1	2	98
RP 5+00S 5+20E	2	170	8	199	.9	29	21	765	5.54	10	5	ND	1	94	.5	2	3	125	1.45	.052	4	41	1.40	51	.09	3	3.70	.03	.09	1	2	307
RP 5+00S 5+40E	3	512	10	315	.9	40	24	1639	5.72	3	5	ND	1	78	1.3	2	2	121	1.47	.065	16	49	1.36	66	.19	3	3.62	.03	.11	1	2	20
RP 5+00S 5+60E	2	210	8	177	.6	27	18	985	5.29	8	5	ND	1	68	.7	2	5	101	1.59	.057	12	35	1.00	44	.15	4	3.05	.02	.10	1	2	22
RP 5+00S 5+80E	2	103	6	198	.6	29	20	855	5.85	6	5	ND	1	56	1.0	2	4	118	.95	.063	8	46	1.04	52	.23	3	2.94	.02	.09	1	2	13
RP 5+00S 6+00E	1	174	12	97	.3	47	23	580	5.63	20	5	ND	1	73	1.0	2	2	146	1.11	.040	3	62	1.61	81	.17	6	3.92	.02	.11	1	2	16
RP 5+00S 6+20E	3	178	7	138	.5	50	22	881	6.06	13	5	ND	2	47	1.0	2	2	113	1.10	.085	10	56	1.26	71	.37	3	3.44	.03	.09	1	2	5
RP 5+00S 6+40E	1	204	11	76	.2	34	21	738	5.32	14	5	ND	1	72	.7	2	2	142	1.19	.062	4	50	1.56	49	.15	5	3.30	.02	.09	1	2	25
RP 5+00S 6+60E	2	114	8	296	.5	50	22	756	5.95	5	5	ND	1	49	1.4	2	2	133	1.06	.059	7	72	1.36	48	.28	2	3.10	.03	.06	1	2	6
RP 5+00S 6+80E	4	312	12	155	.4	30	21	1410	5.97	3	5	ND	1	52	.9	2	2	144	1.45	.081	12	50	1.23	65	.25	3	3.42	.03	.06	1	2	17
RP 5+00S 7+00E	3	143	9	153	.4	35	20	819	5.77	14	5	ND	1	48	1.0	2	2	138	.93	.050	7	57	1.35	68	.25	2	3.53	.03	.07	1	2	6
RP 6+00S 5+00W	1	123	11	58	.2	45	18	607	4.04	7	5	ND	1	48	.8	2	2	84	1.43	.061	7	54	1.32	60	.16	4	2.42	.04	.06	1	2	21
RP 6+00S 4+80W	2	84	19	73	.2	57	22	470	5.61	7	5	ND	1	37	.7	2	2	126	1.11	.047	5	59	1.32	47	.24	3	2.87	.03	.06	1	2	10
RP 6+00S 4+60W	1	161	10	65	.3	49	19	588	4.78	3	7	ND	1	61	.6	2	2	102	1.42	.045	10	58	1.28	107	.20	5	3.31	.05	.05	1	2	7
RP 6+00S 4+40W	1	158	9	59	.4	60	29	524	5.41	11	5	ND	2	47	.6	4	2	123	.92	.029	5	68	1.46	52	.16	7	3.75	.03	.04	1	2	14
STANDARD C/AU-S	19	57	40	131	7.2	72	32	1054	3.97	40	20	7	39	56	18.9	16	22	56	.52	.095	39	57	.90	181	.08	37	1.89	.06	.14	11	2	48

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 6+00S 3+20W	2	220	22	78	.1	44	22	713	5.51	13	8	ND	1	43	.2	2	4	82	1.39	.069	14	41	.79	52	.28	6	2.78	.04	.05	1	2	6
RP 6+00S 3+00W	1	273	15	83	.5	61	24	697	4.72	8	9	ND	1	49	.2	2	4	79	1.83	.103	15	50	1.85	62	.25	4	2.63	.07	.08	1	2	16
RP 6+00S 2+80W	1	79	12	72	.1	35	20	567	5.88	16	5	ND	1	39	.2	2	3	102	.83	.053	5	46	1.10	44	.16	4	2.86	.03	.04	1	2	12
RP 6+00S 2+60W	1	86	16	66	.1	26	16	457	6.07	21	5	ND	1	37	.2	2	4	105	.66	.050	7	41	.87	51	.22	2	2.87	.02	.04	1	2	9
RP 6+00S 2+40W	1	99	16	67	.1	48	24	780	6.17	8	5	ND	1	44	.2	2	3	104	.87	.055	8	60	1.21	62	.21	3	3.55	.04	.05	1	2	7
RP 6+00S 2+20W	1	33	13	79	.1	24	16	535	5.16	3	6	ND	1	34	.2	2	4	140	.93	.061	4	42	1.17	45	.26	4	2.04	.04	.14	1	2	30
RP 6+00S 2+00W	1	135	9	66	.1	28	20	902	5.47	3	5	ND	1	49	.2	2	2	99	1.10	.069	6	39	1.31	78	.21	2	2.73	.06	.10	1	2	10
RP 6+00S 1+80W	1	241	17	160	.7	30	22	1130	5.76	2	5	ND	1	40	.3	2	4	73	1.06	.111	35	37	.49	58	.36	2	4.08	.05	.04	1	2	16
RP 6+00S 1+60W	1	111	32	92	.3	27	29	976	5.92	5	5	ND	1	29	.2	2	2	134	.87	.082	11	45	.84	41	.42	2	2.48	.03	.09	1	2	14
RP 6+00S 1+40W	1	18	2	102	.1	55	26	578	7.80	2	5	ND	2	17	.2	2	2	96	.36	.096	9	55	1.30	31	.65	2	3.11	.05	.06	1	2	2
RP 6+00S 1+20W	1	47	2	45	.1	80	22	443	5.36	2	6	ND	1	23	.2	2	3	113	.64	.033	3	91	2.57	52	.28	2	3.29	.06	.07	1	2	6
RP 6+00S 1+00W	1	74	2	71	.1	77	25	575	6.88	4	5	ND	1	22	.2	2	2	123	.59	.080	7	86	2.11	76	.37	2	3.41	.06	.10	2	2	19
RP 6+00S 0+80W	1	69	10	143	.1	71	38	2168	5.74	2	5	ND	1	19	.4	2	5	110	.71	.114	5	82	2.35	79	.24	3	2.81	.07	.19	1	2	9
RP 6+00S 0+40W	1	61	12	106	.3	43	24	537	6.27	2	5	ND	1	34	.2	2	2	135	.62	.095	5	77	1.17	34	.26	2	2.57	.03	.06	1	2	13
RP 6+00S 0+20W	1	110	9	67	.2	50	35	1189	6.93	6	5	ND	1	51	.2	2	2	131	1.13	.112	4	79	1.48	60	.18	4	3.26	.03	.14	1	2	9
RP 6+00S 2+00E	1	304	3	117	.3	71	21	890	5.05	15	5	ND	1	74	.6	3	2	105	1.43	.105	8	78	1.77	75	.13	3	2.96	.04	.06	1	2	14
RP 6+00S 2+80E	2	161	9	82	.1	76	24	933	5.38	8	5	ND	1	70	.2	2	6	112	1.91	.105	10	73	2.03	84	.22	3	3.28	.05	.07	1	2	19
RP 6+00S 3+20E	2	88	2	83	.1	89	24	763	4.92	4	5	ND	1	69	.2	3	2	95	1.56	.071	7	78	2.32	83	.19	5	3.05	.05	.08	1	2	12
RP 6+00S 3+40E	2	75	4	123	.3	104	27	897	5.87	7	7	ND	1	52	.2	6	2	88	1.74	.096	14	68	2.29	70	.37	6	3.23	.10	.07	1	2	6
RP 6+00S 3+60E	3	413	14	105	.2	110	35	1052	6.17	11	7	ND	1	71	.6	2	2	124	1.61	.059	11	71	2.35	92	.23	3	4.06	.06	.07	1	2	8
RP 6+00S 3+80E	4	97	7	291	.4	62	30	927	6.08	7	5	ND	1	56	1.2	3	2	135	1.00	.061	9	68	1.33	47	.21	4	3.16	.03	.10	1	2	2
RP 6+00S 4+00E	3	77	8	372	.5	56	34	802	6.81	8	5	ND	1	58	1.1	2	2	142	.71	.075	9	69	1.23	42	.24	2	3.18	.03	.10	1	2	4
RP 6+00S 4+20E	2	208	8	473	.4	58	30	784	7.00	7	5	ND	1	61	1.2	2	2	150	.88	.058	6	63	1.41	38	.18	3	3.44	.04	.08	1	2	20
RP 6+00S 4+40E	1	84	2	530	.4	64	33	882	6.82	6	5	ND	1	66	1.3	2	2	141	.93	.061	6	67	1.33	36	.22	4	3.30	.04	.10	1	2	133
RP 6+00S 4+60E	2	109	18	403	.7	54	30	792	7.83	6	5	ND	1	67	1.4	2	3	150	.68	.052	6	60	1.22	40	.27	2	3.82	.03	.07	1	2	26
RP 6+00S 4+80E	1	128	9	266	.4	51	29	825	7.10	8	5	ND	1	111	.9	2	2	136	1.46	.077	5	65	1.45	41	.14	3	3.50	.04	.11	1	2	67
RP 6+00S 5+00E	1	323	10	112	.4	49	32	663	7.28	14	5	ND	1	88	.2	2	4	163	1.17	.054	4	55	1.61	43	.15	4	4.42	.03	.09	2	2	60
RP 6+00S 5+20E	2	116	10	315	.9	33	34	2210	6.91	15	5	ND	1	58	.8	3	2	141	.98	.089	6	49	1.13	76	.17	4	3.34	.03	.07	2	2	27
RP 6+00S 5+60E	1	71	4	511	.6	37	24	898	6.62	2	5	ND	1	132	.7	2	2	121	.86	.055	5	46	1.11	102	.12	3	3.91	.03	.11	1	2	63
RP 6+00S 5+80E	1	220	12	145	.3	89	44	856	7.76	17	5	ND	1	53	.4	2	2	148	1.04	.073	4	88	1.64	32	.15	2	3.74	.04	.07	1	2	37
RP 6+00S 6+00E	1	390	13	184	.3	84	27	733	6.39	13	8	ND	1	51	.3	3	2	129	1.20	.043	6	72	1.53	64	.25	5	3.64	.04	.10	1	2	14
RP 6+00S 6+20E	1	516	5	131	.2	97	39	887	6.34	18	5	ND	1	74	.4	4	2	124	1.46	.052	5	91	1.86	61	.16	5	3.30	.03	.10	1	2	33
RP 6+00S 6+40E	1	140	8	305	.4	90	35	671	6.51	4	5	ND	1	68	.5	3	2	134	1.07	.078	6	81	1.54	38	.16	3	3.57	.03	.05	1	2	148
RP 6+00S 6+60E	1	258	6	372	.6	166	51	863	7.31	5	5	ND	1	79	1.0	2	2	121	1.05	.054	7	118	1.80	51	.28	2	4.20	.03	.05	1	2	6
RP 7+00S 6+40E	1	265	9	215	.7	62	22	773	6.03	14	6	ND	1	42	.2	3	2	108	1.17	.058	16	64	1.18	72	.32	6	3.43	.04	.06	1	2	3
RP 7+00S 6+80E	1	302	8	206	.6	55	31	1029	6.90	5	5	ND	1	140	.2	2	2	137	1.23	.033	6	69	1.69	59	.15	3	4.67	.05	.07	1	2	9
STANDARD C/AU-S	19	61	41	131	7.2	72	32	1054	3.97	41	21	7	37	53	19.0	15	21	56	.51	.094	38	60	.91	181	.07	35	1.89	.06	.13	11	2	51

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP L6+00S 7+00E	1	143	16	133	.6	67	26	816	7.09	8	5	ND	1	46	.8	2	2	141	.82	.050	6	76	1.62	46	.26	5	4.30	.03	.09	1	2	27
RP L6+00S 7+20E	1	102	16	169	.7	58	30	788	7.20	9	5	ND	1	44	.7	2	2	139	.73	.044	5	78	1.57	51	.23	2	3.86	.03	.05	1	2	7
RP L6+00S 7+40E	1	93	14	268	.5	50	27	800	7.59	3	5	ND	1	44	.7	2	3	139	1.23	.049	5	71	1.40	44	.23	4	3.75	.03	.06	1	2	6
RP L6+00S 7+60E	1	200	12	95	.3	84	37	747	6.14	14	5	ND	1	47	.7	2	4	125	1.26	.095	5	90	1.83	17	.13	6	5.11	.03	.05	1	2	14
RP L7+00S 0+80E	1	163	16	111	.3	61	30	1737	5.92	6	5	ND	1	39	.2	2	3	106	.79	.104	7	77	1.62	93	.25	2	3.87	.03	.10	1	2	18
RP L7+00S 1+00E	1	164	17	103	.5	58	28	920	6.49	9	5	ND	1	53	.2	2	4	127	.81	.096	4	84	1.79	91	.16	5	4.51	.03	.09	2	2	6
RP L7+00S 3+00E	1	161	9	77	.3	63	25	984	5.81	13	5	ND	1	76	.2	4	2	124	1.13	.099	8	83	2.00	78	.15	3	3.56	.04	.08	1	2	14
RP L7+00S 3+20E	1	222	10	128	.8	62	23	706	6.79	11	5	ND	1	47	.2	3	2	122	.65	.113	13	88	1.39	91	.27	4	4.23	.03	.08	1	2	11
RP L7+00S 3+40E	1	87	5	76	.5	58	24	867	5.69	10	5	ND	1	65	.2	2	2	119	.95	.076	6	69	1.95	96	.19	6	3.49	.04	.07	1	2	13
RP L7+00S 3+60E	1	110	6	96	.3	82	27	977	6.03	14	5	ND	1	70	.2	2	2	124	.96	.097	3	91	2.19	105	.14	4	3.75	.03	.10	1	2	13
RP L7+00S 3+80E	1	142	13	100	.3	74	26	736	6.02	20	5	ND	1	44	.2	4	2	125	.73	.092	3	90	1.90	107	.14	4	3.81	.03	.10	1	2	6
RP L7+00S 4+00E	1	123	18	98	.4	59	22	782	7.19	11	5	ND	2	40	.3	2	2	107	.56	.090	14	71	1.27	125	.39	2	4.30	.04	.08	1	2	11
RP L7+00S 4+20E	1	137	9	96	.2	57	23	716	5.94	10	5	ND	1	44	.2	2	4	112	.65	.095	11	65	1.46	105	.23	2	3.83	.03	.07	1	2	10
RP L7+00S 4+40E	1	102	4	84	.2	81	28	686	5.86	9	5	ND	1	52	.2	2	2	121	.80	.059	3	84	1.97	61	.16	2	3.43	.03	.08	1	2	26
RP L7+00S 4+60E	1	166	9	60	.2	82	26	778	5.07	4	5	ND	1	61	.2	2	2	113	.94	.061	3	82	2.06	58	.14	4	3.22	.03	.07	2	2	67
RP L7+00S 4+80E	1	197	13	62	.2	50	23	773	5.81	12	5	ND	1	39	.2	3	2	113	.84	.049	5	75	1.84	39	.26	2	3.15	.04	.12	1	2	29
RP L7+00S 5+00E	1	389	14	197	.5	37	29	684	7.56	4	5	ND	1	60	.8	2	2	174	1.12	.066	9	39	1.17	41	.20	3	3.77	.03	.05	1	2	102
RP L7+00S 5+40E	1	500	13	153	.3	76	28	759	5.51	4	7	ND	1	60	.2	2	4	106	1.74	.080	6	67	1.80	29	.15	6	2.74	.05	.06	1	2	56
RP L7+00S 5+80E	1	1108	8	160	.9	96	25	812	5.87	13	5	ND	1	52	.3	2	2	92	1.73	.066	15	58	1.18	44	.24	7	2.83	.04	.05	1	2	35
RP L7+00S 6+00E	1	524	8	192	.7	56	20	1167	5.59	15	5	ND	1	45	1.3	2	2	103	1.54	.079	17	59	1.07	69	.28	4	2.78	.05	.07	1	2	9
RP L7+00S 6+20E	2	370	7	244	.5	48	20	969	6.31	10	5	ND	2	34	.8	2	2	105	1.04	.108	22	54	.90	75	.42	4	2.92	.06	.05	1	2	7
RP L7+00S 6+60E	1	588	10	392	.7	60	27	822	6.46	10	5	ND	1	37	1.2	2	3	121	1.02	.050	11	65	1.26	45	.27	4	3.52	.03	.05	1	2	14
RP L7+00S 7+00E	1	171	17	136	.3	44	25	677	6.17	14	5	ND	1	47	.4	2	3	115	1.27	.047	8	55	1.24	51	.25	4	3.03	.03	.08	1	2	9
RP L7+00S 7+20E	2	95	14	175	.7	34	27	680	7.31	16	6	ND	1	59	.2	2	4	118	.80	.069	5	50	1.12	51	.17	5	3.41	.02	.10	1	2	6
RP L7+00S 7+60E	1	219	11	132	.6	34	21	582	5.50	12	6	ND	1	57	.2	2	3	101	1.54	.051	5	46	1.12	52	.18	7	3.25	.03	.06	1	2	32
RP L7+00S 7+80E	2	124	16	249	.6	46	30	1304	6.79	15	5	ND	1	42	.6	2	4	119	.74	.098	7	55	1.09	62	.25	5	3.07	.03	.09	3	2	7
RP L7+00S 8+00E	1	125	11	193	.4	51	26	749	6.24	22	5	ND	1	41	.2	2	2	120	.74	.067	4	64	1.39	54	.18	5	3.60	.02	.12	1	2	43
STANDARD C/AU-S	18	59	43	131	7.0	70	31	1054	3.92	40	18	7	37	52	18.5	15	21	56	.51	.097	36	59	.90	180	.07	35	1.87	.06	.14	11	2	49

...E ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake Mining (Canada) Limited File # 90-4038

Jheslay Pi...

1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
35113	1	190	4	19	.3	6	28	221	3.89	13	5	ND	1	12	.2	3	2	61	1.83	.157	3	2	.65	13	.07	6	1.89	.05	.05	1	2	40
35115	1	101	2	30	.1	8	17	690	4.81	2	5	ND	1	32	.2	2	2	109	1.49	.088	3	4	.91	19	.10	10	1.77	.03	.07	1	2	8
35116	2	1271	12	39	1.1	22	13	423	1.51	5	5	ND	1	22	.3	2	3	33	1.70	.121	3	8	.45	11	.08	10	1.41	.04	.07	1	2	301
35117	2	214	5	47	.3	46	17	1003	4.39	5	5	ND	1	17	.3	2	2	109	1.34	.102	3	63	1.38	16	.14	10	1.71	.04	.09	2	2	13
[redacted]																																
STANDARD C/AU-R	19	58	37	130	7.0	71	32	1051	3.99	40	19	7	39	55	19.7	14	24	56	.52	.096	39	58	.89	183	.07	36	1.89	.06	.13	13	2	478

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: AUG 30 1990 **DATE REPORT MAILED:** Sept 5/90. **SIGNED BY** C. Leong ....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

✓ ASSAY RECOMMENDED

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake Mining (Canada) Limited PROJECT 3132 File # 90-4361 Page 1

1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 4+00N 3+20E	1	70	11	83	.1	89	33	672	6.26	8	5	ND	1	50	.2	2	2	154	.63	.019	4	86	3.69	36	.32	4	4.02	.02	.04	1	2	1
RP 4+00N 3+40E	2	58	7	71	.1	76	27	577	8.26	6	7	ND	1	37	.2	3	2	218	.71	.037	5	113	2.45	40	.45	2	3.31	.02	.03	1	2	4
RP 4+00N 3+60E	1	164	11	76	.1	69	22	675	7.35	18	6	ND	1	30	.2	2	3	190	.43	.046	7	110	2.12	79	.40	4	4.41	.02	.05	1	2	5
RP 4+00N 3+80E	1	59	6	110	.1	94	28	660	6.67	7	7	ND	1	59	.2	2	2	152	.57	.058	6	96	2.44	39	.36	2	3.59	.02	.03	1	2	5
RP 4+00N 4+40E	2	276	6	134	.5	75	22	893	5.22	27	5	ND	1	70	.5	2	2	111	1.65	.068	11	86	1.85	83	.28	10	2.84	.05	.11	1	2	5
RP 4+00N 4+80E	4	411	9	182	.8	76	21	1015	4.64	34	5	ND	1	92	.5	3	4	103	2.18	.107	14	91	1.59	111	.13	13	3.14	.04	.07	1	2	6
RP 4+00N 5+00E	2	276	11	133	.3	71	20	856	4.44	25	5	ND	1	69	.3	2	2	101	1.69	.090	9	87	1.78	83	.15	6	2.76	.04	.08	1	2	1
RP 3+00N 3+20E	1	203	13	62	.1	55	22	683	5.46	33	6	ND	1	50	.2	5	2	140	1.01	.028	5	80	1.90	60	.18	2	3.50	.03	.06	1	2	3
RP 3+00N 3+40E	1	133	12	87	.1	52	25	1249	5.29	12	5	ND	1	50	.2	3	2	129	1.24	.038	5	86	1.89	52	.29	2	2.80	.03	.06	1	2	6
RP 3+00N 3+60E	2	692	7	65	.7	44	17	699	5.24	14	7	ND	3	71	.2	2	2	124	1.77	.090	24	60	.94	66	.39	6	3.02	.08	.06	1	2	8
RP 3+00N 3+80E	2	118	10	104	.2	59	22	1127	5.47	28	5	ND	1	54	.3	3	2	124	.99	.045	5	90	1.92	83	.20	7	3.16	.03	.10	1	2	31
RP 3+00N 4+00E	1	132	8	101	.2	66	23	811	6.15	34	5	ND	1	49	.2	3	2	139	.83	.041	5	93	2.19	80	.21	6	3.74	.03	.09	1	2	8
RP 3+00N 4+20E	1	128	16	135	.1	39	19	744	5.64	21	5	ND	1	40	.2	2	2	124	.79	.052	8	65	1.45	70	.28	3	3.05	.03	.08	1	2	43
RP 3+00N 4+40E	1	116	16	123	.3	52	25	784	5.91	22	5	ND	1	37	.3	2	2	125	.81	.048	8	83	1.75	60	.28	3	3.25	.03	.08	1	2	6
RP 3+00N 4+60E	1	88	7	82	.1	41	17	777	4.90	17	5	ND	1	39	.2	2	2	126	.98	.024	6	67	1.76	71	.29	4	2.99	.05	.08	1	2	4
RP 3+00N 4+80E	2	170	12	135	.6	48	25	1086	5.78	19	5	ND	1	43	.6	2	2	116	1.09	.064	19	89	1.43	79	.30	2	3.01	.03	.07	1	2	8
RP 3+00N 5+00E	1	146	12	97	.3	83	21	731	5.24	28	5	ND	1	44	.2	4	2	116	.84	.049	6	99	2.23	72	.19	5	3.16	.03	.07	1	2	9
RP 6+00S 0+20E	1	131	8	58	.3	42	24	1188	5.36	9	5	ND	1	59	.4	3	5	123	1.17	.035	6	80	1.46	49	.18	11	3.58	.03	.07	1	2	10
RP 6+00S 0+40E	1	113	10	85	.2	53	27	1045	6.66	9	5	ND	1	44	.2	4	2	137	.87	.052	6	96	1.43	55	.30	2	3.51	.03	.16	1	2	3
RP 7+00S 5+00W	1	205	11	106	.1	49	20	683	6.27	11	8	ND	1	46	.8	2	2	123	1.04	.062	10	69	1.09	63	.37	2	2.83	.03	.08	1	2	18
RP 7+00S 4+60W	1	107	11	60	.1	44	24	851	5.52	12	5	ND	1	55	.2	3	2	105	1.53	.054	8	70	1.21	58	.21	6	2.48	.05	.05	1	2	14
RP 7+00S 4+40W	1	575	13	98	.5	58	30	1309	4.92	10	5	ND	1	60	.3	2	2	81	1.85	.091	25	66	.94	86	.23	2	3.24	.05	.05	1	3	16
RP 7+00S 4+20W	1	88	12	94	.2	52	33	1002	6.86	15	5	ND	1	46	.5	2	2	113	1.32	.059	5	103	1.21	48	.17	4	3.14	.02	.07	1	2	73
RP 7+00S 4+00W	1	520	10	81	.5	43	19	718	4.71	9	6	ND	1	63	.4	2	2	70	2.14	.106	20	52	.71	75	.23	3	2.64	.05	.04	1	2	24
RP 7+00S 3+80W	1	619	7	92	.3	64	21	747	5.38	7	5	ND	1	51	.2	2	2	80	1.61	.078	26	54	.87	67	.36	4	2.92	.06	.05	1	2	9
RP 7+00S 3+60W	1	102	10	71	.1	67	24	560	6.22	12	6	ND	1	56	.2	2	2	128	1.10	.029	5	85	1.45	92	.19	2	3.78	.03	.06	1	2	12
RP 7+00S 3+20W	1	182	9	63	.2	43	17	633	5.62	8	5	ND	2	49	.2	2	2	86	1.36	.068	22	53	.88	68	.47	4	2.89	.07	.05	1	2	9
RP 7+00S 3+00W	1	88	5	110	.2	37	21	568	7.03	16	7	ND	1	31	.3	2	2	137	.85	.063	7	62	1.12	34	.33	2	2.46	.03	.05	1	2	13
RP 7+00S 2+80W	2	67	10	260	.2	21	45	2187	9.04	15	5	ND	1	21	1.1	3	2	153	.59	.172	7	38	.65	41	.22	5	2.64	.02	.07	1	3	16
RP 7+00S 2+60W	1	94	11	217	.2	29	29	903	8.30	13	5	ND	1	26	.7	3	2	150	.69	.072	7	36	.80	46	.30	3	3.04	.02	.10	1	2	2
RP 7+00S 2+20W	1	83	10	161	.2	26	21	665	6.29	9	5	ND	1	36	.6	2	2	116	1.03	.045	5	44	1.07	53	.25	2	2.65	.03	.08	1	2	10
RP 7+00S 2+00W	1	37	11	70	.1	18	16	535	5.05	8	10	ND	1	35	.2	2	2	134	.81	.030	4	33	1.10	56	.23	5	2.38	.04	.07	1	2	23
RP 7+00S 1+80W	1	107	12	62	.1	39	21	572	5.84	9	5	ND	1	50	.4	2	2	108	.93	.036	8	58	1.13	73	.28	2	3.14	.03	.04	1	2	7
RP 7+00S 1+60W	1	58	12	76	.1	50	23	525	7.05	10	5	ND	1	27	.4	2	2	137	.63	.031	6	59	1.43	42	.43	2	2.61	.05	.07	1	2	10
RP 7+00S 1+40W	1	48	15	212	.4	20	22	851	8.46	10	5	ND	1	23	.7	3	2	138	.35	.045	9	46	.39	68	.51	2	2.26	.02	.04	1	2	9
RP 7+00S 1+20W	1	109	9	59	.1	43	23	549	5.98	10	9	ND	1	41	.2	2	2	115	.54	.044	4	67	1.41	39	.18	5	4.20	.03	.04	1	2	31
STANDARD C/AU-S	19	58	36	131	6.8	69	32	1052	3.99	39	20	7	38	53	18.4	15	21	55	.51	.091	39	59	.90	182	.07	37	1.91	.06	.14	13	2	49

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: SEP 12 1990 **DATE REPORT MAILED:** Sept 17/90 **SIGNED BY.** [signature] .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 7+00S 1+00W	3	105	22	90	.2	57	34	1097	7.20	9	5	ND	1	41	.7	2	2	144	.73	.070	5	82	1.67	75	.31	3	3.48	.03	.07	2	2	38
RP 7+00S 0+80W	1	142	17	69	.1	52	28	667	6.15	17	5	ND	1	54	.5	2	2	122	.95	.052	3	78	1.74	56	.18	4	3.74	.03	.04	1	2	40
RP 7+00S 0+60W	2	114	16	82	.4	65	29	642	6.44	14	5	ND	1	45	.9	3	2	130	.85	.054	7	81	1.83	74	.34	3	3.73	.03	.06	1	2	10
RP 7+00S 0+40W	3	113	19	70	.1	51	29	746	7.00	12	5	ND	1	48	.3	2	2	133	.84	.087	8	73	1.38	63	.34	3	3.83	.03	.05	1	2	17
RP 7+00S 1+40E	1	124	5	64	.1	15	29	762	7.88	9	5	ND	1	139	1.4	2	4	262	2.12	.095	5	21	1.57	51	.15	9	3.79	.05	.04	1	2	19
RP 7+00S 1+60E	1	185	12	72	.1	21	31	1016	5.80	8	5	ND	1	170	.9	2	2	159	2.30	.120	6	24	1.69	67	.14	9	4.33	.07	.05	1	2	12
RP 7+00S 2+40E	2	366	5	145	.5	78	23	863	4.79	17	5	ND	1	82	.5	2	2	105	2.64	.093	7	76	1.87	71	.14	12	2.93	.03	.08	1	2	8
RP 7+25S 0+00	3	110	18	75	.4	60	31	642	7.14	16	5	ND	1	52	1.2	4	2	144	.86	.049	6	85	1.69	72	.30	7	4.08	.03	.06	1	2	8
RP 7+50S 0+00	2	164	23	76	.1	59	35	896	7.00	14	6	ND	1	51	.2	2	4	128	.69	.054	4	89	1.76	58	.17	4	4.14	.02	.05	1	2	23
RP 7+75S 0+00	2	129	54	119	.6	57	42	1268	6.79	21	5	ND	1	50	.5	3	2	126	1.09	.083	5	88	1.72	55	.16	5	3.76	.02	.05	1	2	25
RP 8+00S 5+00W	1	142	18	65	.1	65	27	689	5.37	20	8	ND	1	39	.2	2	2	115	.71	.077	3	78	1.59	74	.18	4	3.59	.03	.06	1	2	19
RP 8+00S 4+80W	2	85	14	91	.7	66	29	1134	6.07	10	5	ND	1	37	.8	2	2	125	.67	.092	5	89	1.56	57	.26	5	3.18	.03	.08	1	2	13
RP 8+00S 4+20W	2	85	17	101	.5	41	23	629	6.00	11	5	ND	1	45	1.2	2	4	117	1.15	.061	7	57	.95	63	.34	6	2.77	.03	.06	1	2	12
RP 8+00S 4+00W	1	219	13	71	.3	58	28	855	6.03	19	5	ND	1	64	.2	2	2	139	1.12	.062	5	73	1.74	80	.17	5	3.91	.03	.08	1	2	13
RP 8+00S 3+80W	1	195	13	75	.3	69	31	736	6.39	23	5	ND	1	53	1.1	4	2	138	.89	.051	4	81	1.95	70	.20	3	4.45	.03	.07	1	3	20
RP 8+00S 3+60W	3	133	17	99	.1	54	32	809	6.92	12	5	ND	1	43	.8	2	5	140	.73	.061	6	71	1.40	75	.32	5	3.53	.03	.06	1	2	23
RP 8+00S 3+40W	3	65	16	77	.1	44	22	545	6.80	10	5	ND	1	33	1.1	2	2	145	.58	.055	7	63	.93	58	.49	2	2.73	.02	.05	1	2	25
RP 8+00S 3+00W	2	113	21	90	.1	54	24	608	5.44	16	5	ND	1	60	.8	2	2	111	1.39	.059	5	66	1.63	79	.21	6	3.07	.03	.06	2	2	16
RP 8+00S 2+80W	2	77	16	80	.4	65	40	1049	7.93	8	5	ND	1	37	1.0	2	3	176	1.11	.072	5	95	1.77	62	.24	8	3.43	.03	.06	1	2	16
RP 8+00S 2+60W	1	215	18	81	.2	77	32	672	6.27	15	5	ND	1	47	.6	2	2	132	.79	.065	4	97	2.11	51	.19	6	4.70	.03	.05	1	2	34
RP 8+00S 2+40W	2	139	8	78	.1	88	29	690	6.42	7	5	ND	1	42	.2	2	2	140	1.14	.044	4	100	2.45	82	.25	6	3.86	.05	.07	1	2	15
RP 8+00S 2+20W	2	227	18	77	.1	91	34	874	6.35	15	5	ND	1	44	.8	2	4	121	1.11	.070	7	84	2.02	66	.26	8	3.56	.04	.08	1	2	224
RP 8+00S 2+00W	2	142	36	71	.2	77	31	709	6.31	10	5	ND	1	49	.2	2	9	120	1.29	.078	4	103	2.22	63	.17	10	3.98	.04	.06	1	2	26
RP 8+00S 1+80W	1	101	13	81	.5	71	36	2032	5.95	6	5	ND	1	41	.4	2	2	117	.97	.065	5	92	1.95	74	.26	6	3.34	.03	.09	1	2	27
RP 8+00S 1+60W	2	118	15	81	.1	54	33	879	7.67	12	5	ND	1	46	.7	3	3	143	.89	.057	5	80	1.51	64	.22	5	3.62	.03	.06	1	2	37
RP 8+00S 1+40W	1	159	12	64	.1	51	25	739	5.22	5	5	ND	1	36	.2	2	2	123	1.60	.062	6	72	1.88	85	.23	6	2.66	.07	.09	2	2	9
RP 8+00S 1+20W	2	243	21	69	.1	76	34	750	7.31	9	5	ND	1	53	.2	2	2	140	1.34	.037	12	96	1.93	80	.18	7	4.05	.03	.06	1	2	27
RP 8+00S 1+00W	2	152	20	60	.3	63	31	770	6.78	12	9	ND	1	49	.2	4	2	119	1.08	.048	4	89	1.77	45	.15	5	4.07	.03	.04	1	2	36
RP 8+00S 0+80W	2	146	17	71	.7	65	35	773	7.32	14	5	ND	3	53	.2	6	2	132	.84	.038	4	94	2.05	53	.17	4	4.22	.03	.04	1	2	21
RP 8+00S 0+40W	2	452	2	50	.1	23	43	647	9.98	15	5	ND	1	54	.9	2	2	140	.96	.055	7	22	1.49	19	.07	2	4.03	.01	.03	1	2	121
RP 8+00S 0+20W	2	123	13	52	.2	27	32	583	7.22	12	5	ND	1	62	.2	2	2	121	.76	.038	3	43	1.49	31	.13	3	3.64	.02	.04	1	2	36
RP 8+00S 0+20E	1	177	35	93	.4	69	40	931	7.71	14	5	ND	1	40	1.2	2	2	131	.82	.056	9	74	1.61	59	.31	6	3.73	.03	.09	1	2	54
RP 8+00S 0+40E	1	197	74	91	.1	68	35	914	7.12	14	5	ND	1	46	.2	2	3	127	.86	.046	6	93	1.76	43	.26	3	4.03	.02	.10	1	2	174
RP 8+00S 0+60E	2	115	49	143	.3	57	33	893	6.76	10	5	ND	1	40	1.0	2	2	128	.86	.089	5	94	1.57	56	.24	9	3.69	.02	.13	1	2	24
RP 8+00S 0+80E	2	285	57	74	.6	76	40	1005	6.38	14	5	ND	1	49	.2	2	5	148	1.15	.096	5	126	1.95	41	.13	6	4.31	.02	.07	1	2	32
RP 8+00S 1+00E	2	187	19	111	1.0	76	34	1007	6.58	17	5	ND	1	54	.4	4	7	143	1.09	.070	5	102	2.02	87	.17	6	4.77	.03	.07	1	2	18
STANDARD C/AU-S	19	57	44	129	6.9	72	32	1050	3.93	40	19	7	37	52	19.5	18	22	55	.51	.092	37	56	.89	188	.07	34	1.88	.06	.14	12	2	53

Homestake Mining (Canada) Limited PROJECT 3132 FILE # 90-4361

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 8+00S 1+20E	2	149	25	89	.5	55	31	1070	5.93	12	5	ND	2	57	.4	2	4	122	.98	.047	5	79	1.64	67	.15	7	3.91	.02	.09	2	2	21
RP 8+00S 1+40E	1	166	13	66	.4	54	27	667	5.38	13	5	ND	1	56	.2	2	2	119	.90	.035	5	73	1.56	53	.15	5	3.74	.02	.07	1	2	152
RP 8+00S 1+60E	1	190	2	82	.6	47	25	1079	5.11	10	5	ND	1	65	.8	4	2	110	1.70	.057	8	64	1.38	80	.14	8	3.33	.03	.06	1	2	20
RP 9+00S 5+00W	3	87	8	54	.1	70	25	529	6.47	8	5	ND	1	31	.6	2	3	127	.50	.048	4	95	1.71	43	.27	3	2.83	.02	.06	1	2	17
RP 9+00S 4+80W	2	34	2	47	.2	108	23	348	5.16	6	5	ND	1	19	.6	2	2	113	.41	.047	5	152	2.33	39	.39	2	2.70	.02	.18	2	2	8
RP 9+00S 4+20W	6	157	18	62	.1	86	30	609	6.19	7	5	ND	1	28	.2	2	2	114	.57	.036	4	121	1.92	48	.20	3	3.50	.02	.05	1	2	26
RP 9+00S 4+00W	3	69	8	99	.6	61	28	709	7.55	6	5	ND	3	29	.9	2	12	124	.48	.048	9	87	1.15	56	.43	3	3.26	.02	.05	2	7	10
RP 9+00S 3+80W	2	159	6	74	.6	97	37	1248	6.77	14	5	ND	3	33	1.1	2	7	114	.72	.065	5	125	1.83	64	.21	4	3.27	.02	.08	1	2	47
RP 9+00S 3+40W	2	335	9	66	.3	58	30	934	5.33	8	5	ND	1	61	.5	2	2	118	1.78	.087	8	83	1.52	49	.14	8	2.63	.03	.08	1	2	37
RP 9+00S 3+20W	3	342	8	67	.5	63	36	768	6.33	15	5	ND	3	54	.3	2	2	121	.88	.051	5	91	1.70	55	.16	3	3.58	.02	.08	2	2	51
RP 9+00S 3+00W	3	182	3	110	.1	61	36	773	7.67	14	9	ND	1	41	.4	2	8	126	.67	.065	7	86	1.45	71	.34	5	3.64	.02	.08	1	3	63
RP 9+00S 2+80W	3	193	11	82	.3	77	30	836	6.83	8	5	ND	2	42	.8	2	2	134	.70	.035	3	127	2.01	73	.22	6	3.48	.02	.06	1	2	36
RP 9+00S 2+20W	2	119	6	68	.3	60	33	569	7.16	8	5	ND	3	42	.5	2	2	133	.83	.028	6	80	1.37	67	.25	4	3.91	.02	.05	1	3	30
RP 9+00S 1+80W	2	54	17	64	.6	26	19	428	4.02	6	5	ND	3	35	.8	2	2	104	.94	.030	8	44	.84	59	.32	8	2.21	.02	.06	2	2	53
RP 9+00S 1+60W	2	50	9	102	.1	54	23	507	5.00	2	5	ND	1	33	.8	2	2	138	.79	.025	4	71	1.32	58	.25	4	2.39	.03	.07	1	2	20
RP 9+00S 1+40W	2	86	2	68	.1	49	26	724	6.84	6	5	ND	2	40	.7	2	2	153	.67	.040	4	78	1.41	82	.21	5	3.05	.02	.05	1	2	73
RP 9+00S 0+80W	2	131	5	107	.1	60	31	757	6.47	5	5	ND	1	42	1.0	2	2	131	1.23	.061	6	97	1.53	66	.26	3	3.08	.02	.06	1	2	25
RP 9+00S 0+60W	3	107	11	122	.4	45	27	750	6.18	2	8	ND	1	44	.9	2	2	131	.97	.067	8	82	1.15	74	.32	3	2.41	.02	.11	2	2	38
RP 9+00S 0+20W	2	62	10	213	.4	42	33	983	6.37	7	5	ND	2	36	1.5	2	4	129	.70	.061	5	75	1.19	49	.24	2	2.57	.02	.08	1	2	30
RP 9+00S BL	3	112	19	367	.8	65	45	1158	6.86	11	5	ND	3	37	1.8	2	2	122	.93	.058	7	86	1.34	77	.30	4	3.37	.02	.09	1	2	29
RP 9+00S 0+20E	3	122	26	230	.2	78	48	1045	6.63	13	6	ND	2	37	1.3	2	2	125	.94	.044	5	96	1.59	63	.23	8	3.67	.02	.08	1	2	45
RP 9+00S 0+60E	3	194	30	145	.3	66	37	929	6.76	8	5	ND	1	55	1.0	2	2	133	.93	.042	4	89	1.92	48	.20	4	4.16	.02	.09	1	2	42
RP 9+00S 0+80E	4	165	54	154	.5	65	42	791	8.34	14	10	ND	4	36	1.4	2	2	140	.78	.105	9	81	1.31	46	.36	6	3.32	.02	.11	2	2	53
RP 9+00S 1+00E	3	177	5	149	.4	75	40	982	8.68	13	5	ND	4	39	2.3	2	2	127	.84	.087	15	76	1.50	49	.62	4	3.63	.04	.12	1	2	7
RP 9+00S 1+20E	2	210	9	128	.5	78	42	785	6.77	20	5	ND	3	51	.8	2	2	117	.97	.049	8	94	1.68	40	.29	2	3.95	.03	.11	1	2	19
RP 9+00S 1+40E	2	266	21	75	.1	88	41	1052	6.05	8	5	ND	1	62	.6	2	8	116	1.28	.069	8	109	1.99	45	.18	4	3.66	.03	.09	1	2	40
RP 9+00S 1+60E	2	304	9	95	.6	77	37	1321	6.03	10	5	ND	2	56	1.4	2	2	113	1.53	.066	10	100	1.72	75	.21	2	3.45	.03	.09	1	2	25
RP 9+00S 1+80E	2	303	15	98	.2	78	35	1182	5.65	7	5	ND	1	51	.6	2	2	104	1.49	.060	8	101	1.69	58	.18	3	3.28	.03	.09	1	2	38
RP 9+00S 2+00E	1	223	9	71	.2	71	30	868	4.79	2	5	ND	1	45	1.0	2	3	97	1.26	.067	6	97	1.61	43	.16	6	2.74	.03	.10	2	2	58
RP 9+00S 3+80E	2	82	6	108	.2	54	30	829	6.16	7	20	ND	2	60	.3	2	6	138	.85	.053	6	76	1.74	68	.21	4	3.96	.03	.07	3	2	17
RP 9+00S 4+00E	2	84	4	92	.1	60	31	781	6.62	9	5	ND	1	61	.6	2	2	150	.91	.062	4	69	1.96	87	.18	3	4.25	.02	.09	1	2	5
RP 9+00S 4+20E	1	109	2	79	.1	64	29	677	5.90	8	5	ND	2	68	.4	2	8	149	1.06	.052	6	91	2.43	72	.21	2	4.04	.02	.16	1	2	6
RP 9+00S 4+40E	2	118	2	96	.4	56	30	890	6.16	15	6	ND	3	73	.7	2	8	142	1.10	.036	8	73	1.92	118	.20	2	4.15	.03	.07	1	3	9
RP 9+00S 4+80E	2	78	5	90	.1	70	29	791	6.01	14	20	ND	1	63	.4	2	4	138	.99	.039	4	77	2.07	81	.20	4	3.73	.03	.12	1	2	19
RP 9+00S 5+00E	3	68	2	130	.1	89	32	739	6.47	4	5	ND	2	54	.8	2	2	134	.90	.062	5	73	2.43	96	.22	4	4.00	.04	.15	1	2	9
RP 10+00S 4+20W	5	214	2	52	.1	128	34	513	6.02	4	5	ND	2	19	.2	2	2	109	.56	.035	3	148	2.53	28	.25	7	2.98	.02	.08	2	2	23
STANDARD C/AU-S	19	57	38	131	7.1	71	32	1052	3.99	39	20	7	40	53	19.0	16	23	57	.52	.094	39	60	.90	183	.08	34	1.89	.06	.14	11	2	52

Homestake Mining (Canada) Limited PROJECT 3132 FILE # 90-4361

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP 10+00S 3+80W	4	190	8	38	.1	91	24	505	5.77	5	5	ND	1	29	.2	4	3	110	.59	.029	2	122	2.33	27	.21	5	2.77	.02	.05	2	2	40
RP 10+00S 3+60W	3	158	8	55	.2	65	26	459	6.48	2	5	ND	1	31	.3	2	2	120	.57	.046	6	100	1.43	37	.34	5	2.77	.02	.07	1	2	23
RP 10+00S 3+40W	1	452	7	46	.3	91	26	711	4.94	2	6	ND	1	30	.5	3	2	100	.58	.047	7	132	1.75	32	.23	4	2.87	.02	.07	1	2	20
RP 10+00S 3+20W	1	68	13	80	.4	47	26	1092	5.01	6	5	ND	1	45	.4	2	3	103	.76	.075	6	68	1.18	72	.21	4	2.78	.02	.14	1	2	1
RP 10+00S 3+00W	1	340	11	50	.2	77	32	841	5.49	9	5	ND	1	54	.5	3	3	116	.78	.063	4	133	2.06	51	.19	5	2.99	.02	.05	1	2	57
RP 10+00S 2+80W	2	251	13	49	.2	94	28	770	6.33	4	5	ND	1	37	.2	2	3	134	.61	.048	3	176	2.63	29	.25	7	3.13	.02	.07	1	2	94
RP 10+00S 2+60W	5	885	18	43	.3	74	39	530	7.05	9	5	ND	1	35	.2	2	2	120	.46	.049	4	115	1.50	24	.16	2	3.56	.02	.04	1	2	280
RP 10+00S 2+40W	3	450	15	48	.4	73	25	497	6.72	10	5	ND	2	28	.3	5	2	126	.39	.041	4	126	1.92	39	.26	7	3.93	.02	.04	1	2	101
RP 10+00S 2+20W	1	312	16	61	.3	72	29	636	7.06	9	5	ND	1	41	.2	3	2	134	.49	.037	4	114	1.83	40	.19	4	3.95	.02	.04	1	2	46
RP 10+00S 1+60W (A)	2	190	14	99	.4	59	31	653	7.01	5	5	ND	3	24	.2	2	2	95	.49	.070	13	61	.80	45	.51	2	4.09	.04	.05	1	2	14
RP 10+00S 1+60W (B)	1	112	14	70	.3	58	24	641	6.07	5	5	ND	1	48	.4	2	3	146	1.07	.040	4	100	1.68	56	.24	4	2.59	.03	.06	1	2	436
RP 10+00S 0+80W	1	112	20	93	.2	64	29	573	6.13	9	5	ND	1	42	.3	2	2	127	.58	.031	4	100	1.60	285	.21	2	3.56	.02	.05	1	2	16
RP 10+00S 0+60W	1	149	30	114	.4	56	40	774	7.68	7	5	ND	1	70	.8	4	2	145	.63	.037	5	85	1.69	60	.22	4	3.64	.02	.04	1	2	100
RP 10+00S 1+20E	2	213	12	59	.3	89	45	722	6.37	11	5	ND	1	40	.6	2	2	118	.88	.035	3	132	2.04	38	.20	5	3.39	.02	.17	1	2	43
RP 10+00S 1+40E	2	169	25	103	.1	71	43	890	5.56	10	5	ND	1	28	1.2	3	3	103	.67	.063	4	122	1.58	30	.20	2	2.45	.02	.13	1	2	88
RP 10+00S 1+80E	3	267	24	94	.2	69	46	698	6.76	8	5	ND	1	29	.8	2	2	112	.72	.059	6	94	1.28	33	.26	3	2.79	.02	.16	1	2	82
RP 10+00S 2+20E	4	290	19	78	.3	69	43	543	6.93	10	5	ND	1	35	.7	3	2	119	.69	.088	4	95	1.64	43	.20	6	3.09	.02	.10	1	2	409
RP 10+00S 2+40E	1	181	5	35	.1	53	22	564	4.61	9	5	ND	1	47	.2	2	4	115	.91	.075	4	61	1.47	45	.16	2	2.57	.03	.07	1	2	12
RP 10+00S 4+20E	1	167	9	71	.4	61	25	958	5.34	8	5	ND	1	72	.3	2	4	121	1.17	.064	8	74	1.97	78	.15	2	3.50	.04	.09	1	2	3
RP 10+00S 4+40E	1	108	8	87	.3	55	26	773	5.86	9	5	ND	1	61	.4	2	2	133	.91	.061	6	70	1.87	59	.17	5	3.81	.03	.09	1	2	3
RP 10+00S 4+60E	1	107	9	67	.1	46	23	865	5.42	11	5	ND	1	75	.4	3	5	125	1.07	.049	5	66	1.80	88	.18	2	3.33	.03	.10	1	2	6
RP 10+00S 4+80E	1	101	7	72	.1	73	30	902	6.16	11	5	ND	1	64	.2	2	3	136	.98	.044	5	74	2.49	94	.19	5	3.94	.03	.15	1	2	6
RP-03-3 35114	1	296	8	134	.3	26	18	880	3.87	6	5	ND	1	113	.9	3	2	76	2.58	.122	6	42	.97	59	.10	13	2.34	.03	.07	1	2	3
STANDARD C/AU-S	18	58	36	131	6.8	68	32	1053	3.93	38	16	7	40	53	18.4	15	21	55	.50	.094	39	60	.90	181	.07	35	1.92	.06	.14	13	2	53

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake Mining (Canada) Limited PROJECT 3132 File # 90-5043

1000 - 700 W. Pender St., Vancouver BC V6C 1G8

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-03-2 P-6-8	6	90	14	81	.5	51	29	559	6.85	9	5	ND	1	45	1.4	2	2	143	.63	.040	5	70	1.20	36	.29	5	2.76	.04	.14	1	2	23
RP-05-2 P15-7	1	53	12	95	.6	30	19	543	6.47	13	5	ND	1	30	2.2	3	2	122	.28	.112	10	53	.81	82	.37	5	3.23	.02	.06	1	2	8
RP-05-2 P16-2	5	254	24	126	.8	28	23	767	6.00	6	5	ND	1	51	.9	2	2	139	.43	.050	5	40	1.13	71	.15	3	3.95	.02	.04	1	2	215
RP-05-2 P17-5	1	99	17	46	.6	6	17	227	4.02	5	5	ND	1	61	.4	3	2	109	1.05	.132	4	12	.42	18	.08	2	6.94	.01	.03	1	2	14
RP-05-2 P17-6	2	132	7	67	.9	20	19	435	5.54	8	5	ND	1	57	1.6	5	2	127	.49	.071	7	32	.82	65	.23	4	3.30	.02	.04	1	2	18
RP-05-2 P21-3	2	68	10	112	.8	21	19	872	6.41	7	5	ND	1	56	1.8	2	6	142	.63	.105	18	37	.52	34	.34	2	4.30	.02	.04	1	2	7
L1+50S 0+00	2	456	11	80	.5	54	49	1468	9.45	39	5	ND	1	44	1.1	2	8	117	1.01	.099	12	58	1.32	33	.10	2	2.69	.02	.06	1	2	110
L1+50S 0+20E	1	137	9	69	.4	64	33	816	7.38	28	5	ND	1	35	1.3	2	2	128	.58	.044	4	83	1.93	39	.16	2	3.29	.02	.06	1	2	148
L1+50S 0+40E	1	125	13	78	.5	50	32	1081	6.78	18	5	ND	1	47	1.5	2	2	117	.63	.065	5	67	1.45	50	.11	4	3.22	.02	.04	1	2	25
L1+50S 0+60E	1	275	5	68	.6	87	41	1156	6.65	47	5	ND	1	48	1.1	2	2	124	.89	.059	6	118	2.15	43	.12	2	3.74	.02	.04	1	2	22
L1+50S 0+80E	1	419	11	82	.6	110	50	1255	7.99	31	5	ND	1	44	1.0	2	2	121	1.07	.088	8	130	2.16	37	.11	4	2.98	.02	.04	1	2	20
L1+75S 0+00	2	572	15	87	.7	57	135	3308	13.23	343	5	ND	1	25	.2	2	2	186	1.16	.107	13	14	.64	37	.03	3	1.94	.01	.03	1	4	22
L2+00S 0+20W	3	529	8	98	.7	55	74	2724	12.90	51	5	ND	1	43	.2	2	2	120	1.11	.101	10	36	.90	54	.09	4	2.36	.02	.09	1	2	84
L2+00S 0+00	6	303	2	74	.7	51	66	5455	12.62	10	5	ND	1	50	.6	2	2	80	.98	.132	11	21	.81	45	.05	4	1.53	.01	.12	1	2	25
L2+00S 0+20E	3	656	5	129	.8	42	79	3152	13.91	38	5	ND	1	33	1.1	2	2	170	1.01	.109	10	16	.85	58	.12	5	2.34	.01	.12	1	2	43
L2+00S 0+40E	1	257	16	61	.5	32	34	1150	11.84	13	5	ND	7	39	.2	2	2	58	.27	.105	21	23	.52	21	.03	2	1.90	.02	.04	1	2	23
L2+00S 0+60E	1	252	19	61	.3	50	45	1173	8.17	60	5	ND	1	60	.4	2	2	136	.78	.057	5	75	1.81	42	.09	2	4.82	.02	.02	1	2	23
L2+00S 0+80E	1	236	6	68	.2	103	45	878	6.91	33	5	ND	1	46	1.7	2	6	128	.71	.053	4	127	2.44	41	.12	6	4.46	.02	.04	1	2	16
L2+00S 1+00E	1	208	15	57	.1	135	48	790	7.15	17	5	ND	1	49	1.0	2	2	143	.93	.034	4	169	2.81	51	.14	2	5.05	.02	.03	1	2	9
L2+25S 0+00	4	812	13	59	1.3	30	108	2007	16.86	793	5	ND	1	75	.4	2	6	110	1.71	.106	19	21	.66	76	.03	6	1.82	.04	.10	1	4	1399
L2+50S 0+00	6	585	21	78	.7	34	68	1727	10.86	39	5	ND	2	43	.7	2	2	120	1.01	.115	11	27	1.04	60	.13	2	2.82	.02	.12	1	2	111
L2+50S 0+25E	1	372	2	67	.8	22	92	1433	11.79	8	5	ND	2	34	.6	2	2	94	1.03	.129	6	8	.66	55	.12	5	1.62	.01	.12	1	2	30
L2+50S 0+40E	1	424	13	124	.9	15	46	1540	9.01	10	5	ND	1	13	1.6	4	2	219	.78	.199	10	5	1.34	264	.38	2	2.03	.02	.73	1	2	13
L2+50S 0+60E	1	266	5	80	.6	28	44	2016	11.61	13	5	ND	2	55	.9	2	2	118	.89	.085	16	30	.95	56	.08	2	2.81	.03	.04	1	2	27
L2+50S 0+80E	1	379	12	63	.4	93	66	1462	8.05	26	5	ND	2	59	.6	3	2	137	.90	.070	8	135	2.34	44	.10	4	4.24	.03	.04	1	2	25
L2+50S 1+00E	1	296	2	52	.5	85	63	1056	7.23	24	5	ND	1	44	.5	2	2	128	.96	.088	4	105	1.88	30	.11	5	5.68	.02	.06	1	2	29
L2+50S 1+20E	3	354	18	75	.6	90	71	859	9.58	85	5	ND	2	39	.6	2	8	136	.79	.126	5	94	1.75	47	.12	2	4.28	.02	.05	2	2	216
L3+00S 0+40E	2	454	9	64	.5	60	80	1977	8.43	24	5	ND	2	61	.8	2	4	133	1.91	.082	8	61	1.69	39	.11	2	3.46	.03	.06	2	2	26
L3+00S 0+60E	1	341	24	64	.5	60	64	1567	7.93	21	5	ND	1	48	.9	2	2	140	1.08	.090	7	56	1.99	60	.17	5	3.45	.03	.16	1	2	27
L3+00S 0+80E	2	416	14	63	.6	38	53	1600	8.48	81	5	ND	1	91	.9	2	2	112	2.35	.079	6	35	1.35	23	.07	3	2.32	.02	.03	1	2	42
L3+00S 1+00E	2	522	13	62	.6	125	184	3150	9.19	14	5	ND	1	41	1.3	2	2	110	1.51	.061	4	98	2.37	38	.12	2	3.18	.03	.03	1	2	18
L3+00S 1+20E	8	959	17	66	.6	55	70	1022	10.77	74	5	ND	2	50	.7	2	2	114	.85	.065	10	104	1.48	52	.13	8	3.96	.04	.06	2	2	51
STANDARD C/AU-S	20	62	43	134	7.4	73	32	1053	3.94	43	20	7	40	52	19.4	15	21	59	.46	.093	40	61	.89	180	.08	36	1.89	.06	.13	11	2	49

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: OCT 4 1990 DATE REPORT MAILED: Oct 9/90. SIGNED BY .... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS ast Tranching Program ?

GEOCHEMICAL ANALYSIS CERTIFICATE

Homestake Mining (Canada) Limited PROJECT 3132 File # 90-5137

1000 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: D. MARUD

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Au** ppb
RP-09-1 35229	1	55	12	58	.1	12	5	312	1.32	7	5	ND	1	17	.2	2	2	24	1.77	.074	4	9	.30	23	.05	5	.65	.07	.14	1	2	9
RP-05-1 35378	1	416	4	19	.2	5	19	248	2.59	2	5	ND	1	142	.2	2	2	57	2.26	.095	3	1	.57	19	.09	5	1.77	.04	.04	1	2	16
RP-05-1 35379	3	1099	2	37	.5	69	88	712	9.20	2	5	ND	1	23	.2	2	2	49	1.53	.107	2	114	.85	7	.06	3	1.34	.04	.05	1	2	5
RP-03-1 35380	2	51	2	73	.1	64	28	1726	7.92	48	5	ND	2	37	.3	2	2	62	3.50	.083	5	44	.94	17	.01	5	.68	.01	.04	2	2	28
RP-03-1 35381	2	567	2	140	.6	102	72	1610	17.83	10	5	ND	2	21	1.2	2	2	127	.85	.087	5	171	1.60	42	.07	2	2.69	.01	.47	1	2	73
RP-03-1 35382	1	102	2	63	.1	98	27	1575	5.97	43	5	ND	2	121	.4	2	2	70	7.50	.060	4	119	2.70	11	.01	2	.94	.01	.02	1	2	8
RP-03-1 35383	1	162	145	702	.7	11	17	932	4.49	22	7	ND	2	34	5.6	4	2	51	4.29	.080	7	4	1.82	9	.01	4	1.14	.02	.04	1	2	6
RP-03-1 35384	1	360	11	21	.4	11	29	498	5.34	30	5	ND	1	16	.4	2	3	49	1.71	.082	4	6	.95	12	.01	2	1.19	.02	.04	1	2	14
RP-03-1 35385	2	128	2	47	.4	54	27	1228	4.98	20	5	ND	3	62	.5	2	2	51	6.02	.070	16	68	2.49	12	.01	8	1.31	.02	.02	1	2	5
RP-03-1 35386	1	111	11	71	.1	90	27	906	4.36	6	5	ND	1	43	.2	2	3	69	3.59	.072	2	120	3.19	17	.08	4	2.35	.03	.02	3	2	4
RP-03-1 35387	1	77	4	58	.1	117	31	1170	4.66	4	5	ND	1	52	.5	2	2	64	6.09	.069	3	165	3.55	13	.05	4	2.18	.02	.02	1	2	5
RP-03-1 35388	1	167	6	43	.2	58	23	1059	4.12	8	5	ND	2	66	.2	2	3	66	9.46	.077	5	91	1.79	8	.05	2	2.29	.03	.03	1	2	8
RP-03-1 35389	1	220	9	53	.3	42	29	1187	4.54	4	5	ND	1	68	1.2	2	2	60	9.65	.088	7	58	1.85	12	.04	6	2.14	.02	.03	1	2	6
RP-03-1 35390	1	93	7	33	.1	90	25	597	4.14	4	5	ND	2	33	.9	2	2	93	4.72	.077	3	109	2.29	12	.11	4	2.43	.03	.03	1	2	4
RP-04-1 35391	4	438	5	38	.3	5	15	634	3.54	30	5	ND	2	27	.2	2	2	15	5.90	.066	6	2	.32	12	.01	2	.87	.01	.16	2	2	197
RP-04-1 35392	1	168	8	132	.6	9	10	1256	2.62	25	5	ND	4	59	.2	2	2	26	7.41	.067	13	7	.66	6	.01	2	1.56	.02	.07	1	2	28
RP-03-1 35393	1	125	2	39	.3	65	21	1167	3.79	15	5	ND	2	86	.2	2	2	61	7.61	.066	5	64	3.18	7	.01	4	.64	.01	.03	1	2	5
RP-03-1 35394	1	124	2	66	.3	35	29	1558	6.10	17	5	ND	2	68	.9	2	2	81	4.32	.061	4	1	2.69	8	.01	2	.52	.01	.06	1	2	5
RP-03-1 35395	1	68	3	22	.1	43	21	703	2.45	45	6	ND	3	47	.2	2	2	40	5.05	.075	5	31	1.67	10	.01	6	.69	.01	.03	1	2	3
RP-03-1 35396	1	124	6	50	.3	172	34	980	4.90	56	5	ND	1	22	.2	2	7	104	2.29	.089	5	193	3.07	16	.08	2	2.33	.02	.02	1	2	6
RP-04-1 35397	1	378	4	81	.1	4	18	1342	5.83	6	5	ND	2	21	.2	2	2	87	1.90	.202	14	1	1.27	8	.15	2	2.54	.03	.04	1	2	4
RP-04-1 35398	1	238	4	74	.3	8	16	889	5.31	7	5	ND	2	34	.2	3	5	94	2.03	.198	14	3	.88	25	.16	2	2.08	.03	.05	1	2	5
RP-03-1 35471	1	208	2	55	.4	58	22	2460	9.00	104	5	ND	4	90	.7	2	2	77	7.06	.043	4	52	2.54	40	.01	7	.57	.03	.03	1	2	13
RP-03-1 35472	3	76	2	79	.3	89	27	3362	15.08	126	5	ND	2	42	.7	2	3	83	2.32	.057	5	30	1.74	19	.01	3	.45	.02	.02	1	2	34
RP-03-1 35473	5	94	2	58	.3	27	15	2562	9.77	77	5	ND	3	39	1.0	2	2	41	4.49	.056	7	11	2.12	12	.01	2	.48	.02	.03	1	3	13
RP-03-1 35474	1	123	7	41	.3	40	16	980	3.72	35	8	ND	3	46	.2	2	2	35	4.47	.070	6	19	2.00	10	.01	2	.83	.01	.04	2	2	11
RP-03-1 35475	1	114	2	37	.1	66	23	1043	4.09	19	5	ND	3	60	.3	2	5	44	5.50	.080	6	66	2.43	12	.01	2	.77	.01	.03	1	2	6
RP-03-1 35476	1	111	3	36	.1	55	25	1364	3.73	14	5	ND	2	63	.4	2	2	38	7.76	.053	5	46	2.94	19	.01	2	.71	.02	.03	2	2	24
RP-03-1 35477	1	166	4	44	.1	100	34	1410	5.18	36	5	ND	2	59	.2	2	2	47	5.00	.088	7	88	2.44	12	.01	2	.71	.01	.01	1	2	6
RP-03-1 35478	1	69	2	49	.2	105	31	1337	5.21	19	5	ND	3	58	.3	2	2	50	6.27	.071	7	107	3.10	8	.01	5	.87	.01	.01	1	2	1
RP-03-1 35479	1	98	2	54	.1	115	31	1134	4.51	11	5	ND	3	62	.2	2	3	58	5.69	.070	5	147	3.71	17	.03	2	1.74	.02	.01	1	2	9
STANDARD C/AU-R	19	60	40	133	7.0	72	32	1052	3.96	40	19	7	38	50	18.5	19	18	57	.46	.096	38	61	.89	187	.07	33	1.89	.06	.14	13	2	497

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU** ANALYSIS BY FA\ICP FROM 10 GM SAMPLE.

DATE RECEIVED: OCT 9 1990 DATE REPORT MAILED: Oct 12/90. SIGNED BY.......... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

APPENDIX 4

RECONNAISSANCE ROCK SAMPLE DESCRIPTIONS

RECONNAISSANCE ROCK SAMPLE DESCRIPTIONS

Abbrieviations: w/=with; cbt=carbonate; py=pyrite; cp=chalcopyrite; tr.=trace; po=pyrrhotite

SAMPLE#	DESCRIPTION
31861	chloritized mafic volcanic, magnetic, tr. py
31862	sheared mafic volcanic w/ epidote alteration, hematite, and cbt veinlets
31863	hornblende diorite-volcanic contact w/ tr.-1% cp
31864	hornblende diorite w/ dark brown gossan, 5-7% po
31865	foliated volcanics w/ local patches of up to 10% py
35053	mafic volcanic w/ 2% py
35054	hornblende porphyritic intermediate dyke
35055	mafic tuff(?) w/ 1% py
35056	mafic tuff(?)
35057	mafic tuff(?) w/ 1-2% py
35058	hornblende porphyry dyke w/ 3% po
35059	mafic volcanic w/ 5% py, calcite blebs, dark brown weathering
35060	sheared, magnetic diorite w/ 1-4% py, quartz veining, epidote alteration
35061	fine grained mafic volcanic w/ 3% cp
35062	chloritized hornblende porphyry dyke w/ tr.-5% py, minor gossan on weathered surfaces
35063	mafic tuff, hornblende porphyry dyke w/ 2-4% py
35085	sheared, chloritized, sericitized mafic volcanic w/ 2-3% py, minor light blue clay
35086	quartz and feldspar(?) w/ 2-3% py, strong silicification
35087	2m channel, sheared hornblende porphyry and mafic volcanic w/ thin gossan zone
35088	gossanous shear zone
35089	gossanous shear zone w/ white clay gouge
35093	fractured hornblende porphyry dyke w/ 1-2% py
35113	silicified, bleached mafic volcanic w/ 3% py
35115	magnetic diorite w/ tr. py
35116	diorite w/ tr. py, calcite
35117	diorite w/ tr.-1% py, tr cp
35131	agglomerate w/ chloritic alteration, tr. py in clasts
35132	feldspar porphyry w/ tr. py
35133	quartz monzonite w/ minor cbt alteration
35134	diorite w/ epidote alteration, tr. py
35135	sheared mafic volcanic w/ weak gossan
35136	mafic volcanic w/ tr. py
35137	fine grained trachytic andesite, weakly magnetic

35138	chloritized, magnetic mafic volcanic w/ tr. py
35139	fine grained, laminated mafic tuff w/ tr. py
35140	mafic volcanic
35141	fine grained, gossanous diorite w/ 5-10% po
35142	medium grained diorite w/ cbt alteration, tr.-1% py
35143	mafic volcanic w/ tr.-1% po, calcite veinlets
35144	gossanous mafic volcanic w/ 1-3% py
35145	medium grained gossanous diorite w/ 2% py, locally 10% py
35146	hornblende porphyry dyke w/ tr. magnetite
35147	intermediate dyke w/ tr. cp, calcite blebs, epidote alteration and sauseritization of fspar
35148	hornblende pophyry dyke w/ 2-3% po(?)
35149	very fine grained mafic tuff w/ 2% py, hematite and limonite staining
35150	silicified hornblende porphyry dyke w/ 2% po
35151	fine grained diorite w/ tr.-1% py, sauseritization of feldspars
35152	diorite w/ 1% magnetite
35153	diorite w/ tr. py, tr. magnetite, hematite alteration on fractures
35154	trachytic andesite w/ tr. py
35155	gossanous hornblende porphyry dyke w/ tr.-1% py
35156	gossanous trachytic andesite w/ 1% po, minor cbt alteration
35157	gossanous mafic tuff(?) w/ 5% py, cbt alteration, minor gouge
35161	fine grained, chloritized mafic volcanic w/ tr.-1% py
35162	gossanous, weakly silicified mafic volcanic w/ tr. py
35163	gossanous, chloritized trachytic andesite
35226	sheared diorite w/ massive py fragments up to 1cm, abundant rusty brown weathering
35227	strongly sheared magnetic diorite w/ 10% po, minor quartz, rusty brown weathering
35228	sheared volcanic/sediment w/ 3-5% py, cbt veining and clay gouge in shear zone
35229	grey silicious rock w/ tr. py
35230	syenite, 80-90% kspar
35231	quartz vein float w/ 10-15% py, 5% cp, tr.-1% bornite
35232	gossanous trachytic andesite w/ 3-5% py, tr. cp
35287	mafic volcanic, weakly magnetic

APPENDIX 5

PETROGRAPHIC REPORT

WOLVERINE ROCK SUITE

THIN SECTION LIST

RP-1	HPD - hornblende porphyry dyke
RP-2	FPD - feldspar porphyry dyke
RP-3	TA1 - trachitic andesite, type 1
RP-4	TA2 - trachitic andesite, type 2
RP-5	DRT - diorite
RP-6	MDT - monzodiorite, K72 camp
RP-7	SYT - syenite
RP-8	MDT - monzodiorite, Sheslay River

RP-1 Porphyritic hornblende augite trachyandesite

General description

Phenocrysts
Coarser hornblende, augite and lesser plagioclase phenocrysts in a close packed plagioclase-rich matrix with interstitial K-feldspar. Accessory minerals include sphene.

The hornblende phenocrysts are slightly altered. A few grains show remnant granules of augite. Augite has clusters of moderate/strong chlorite, epidote and carbonate alteration some of which is fracture controlled. Phenocrysts and finer plagioclase groundmass has cores of strong sericitic, lesser carbonate alteration.

The groundmass alteration assemblage includes secondary amphibole, chlorite, carbonate and epidote.

Opaques are mainly pyrrhotite.

Microscopic description

Phenocrysts (large)

Hornblende; 5%, subhedral/euhedral, (<0.2 to >5.0 mm), pleochroic medium to very pale brownish green zoned. Biaxial (-), large 2V. Generally coarser than augite.

Augite; <5%, euhedral/subhedral, (<0.1 to >1.0 mm), pale green pleochroism/colourless. Biaxial (+), 2V 50 Weak epidote, chlorite, and moderate carbonate alteration. Generally finer grained than hornblende.

Plagioclase; <<5%, subhedral (0.6 to 1.5 mm), sericitic alteration of cores. Oscillatory zoning.

Intermediate phenocrysts.

Plagioclase; 40%, subhedral, (0.05 to 0.6 mm), strong sericitic alteration in cores of most grains, (albitic rims?). Close packed with interstitial K-feldspar. Twinning indicates composition in low andesine range.

Fragments

Quartz; traces, anhedral, (<.05 to 0.2 mm) fragmental, few widely scattered fragments, clusters of fragments. Confirmed uniaxial (+)

Groundmass

K-feldspar; 20%, anhedral, (<.05 to 0.2 mm(?)). Conspicuous in stained slab. Interstitial to plagioclase in groundmass.

RP-1 Continued

Appears as featureless, low relief, low birefringent material among plagioclase grains in groundmass.

Accessories

Sphene; >1%, subhedral/anhedral (.05 to 0.3 mm) clusters of grains, associated with mafics and opaques.

Opaques; <5%, anhedral, (<.01 to 0.4 mm), skeletal grains associated with mafics and sphene. Pyrrhotite.

Alteration

Sericite; <5%, alteration of plagioclase, phenocrysts and groundmass.

Epidote; <5%, alteration of augite. Clusters of grains in groundmass.

Chlorite; <<5%, alteration of augite. Clusters of grains in groundmass.

Carbonate; <<5%, alteration of augite, plagioclase. Clusters of grains in groundmass.

Secondary amphibole; 5%, subhedral, (<.05 to 0.1 mm) acicular/prismatic. In groundmass. Fairly low birefringence but inclined extinction.

Iron stain/jarosite; associated with pyrrhotite

RP-2 (Two sections) Weakly porphyritic plagioclase, hornblende, augite, trachyandesite flow.

General description

Phenocrysts sparse, fine/medium grained plagioclase, augite, hornblende. In a very fine felted plagioclase groundmass with interstitial K-feldspar.

Plagioclase phenocrysts show moderate "clay" alteration dusting. Some grains contain cores of irregular epidote and/or carbonate grains. The groundmass contains very fine granular epidote and chlorite(?). Scattered small clusters of epidote grains, chlorite and carbonate.

Scattered small carbonate and /or epidote filled amygdules.

Microscopic description

Phenocrysts; commonly composite grains, plagioclase or augite.

Plagioclase; <5%, euhedral, (0.2 to >3.0 mm), single grains, clusters of grains forming glomerophenocrysts. Moderate/strong "clay" alteration dusting. Some grains partial epidote and carbonate alteration. Ramnant twinning indicates composition in lower andesine range. Some grains partially resorbed.

Augite; <<5%, subhedral (<0.3 to 1.5 mm) partially resorbed grains. Colourless [Confirmed]

Hornblende; 1%, euhedral (0.3 to 1.5 mm) weak chlorite alteration, traces of sericite.

Alteration of phenocrysts.

Epidote

"Clay" dusting

Carbonate

Chlorite(?)

Groundmass

Plagioclase; 50%, subhedral, (<.05 to 0.2 mm, most grains about 0.1 mm). Felted laths. Weak "clay" alteration dusting.

K-feldspar; 10%, (?), anhedral, (<.05 to 0.1 mm?) evident in stained slab. Not confirmed in thin section.

RF-2 Continued

Alteration of groundmass

Chlorite; 15%, anhedral, (<.05 to 0.1 mm), medium bright green, very low birefringence with anomalous blue greys/yellow.

Epidote; 15%, anhedral, (<.01 to .05 mm), aggregates of granules, pale yellow pleochroic, moderate high relief. Distinct from chlorite above. Forms irregular clusters of granules.

Carbonate; 5%, anhedral, (<.01 to .05 mm), irregular clusters of grains scattered through groundmass.

Opaques; <1%, euhedral/anhedral pyrite, nonmagnetic

Amygdules; scattered small vesicles filled with epidote, carbonate.

RP-3 Porphyritic plagioclase augite trachyte

General description

Phenocrysts of altered medium grained plagioclase with lesser phenocrysts of augite. Scattered chlorite pseudomorphs after other mafics.

Intermediate size phenocrysts of acicular long prismatic pyroxene (biaxial +), and bladed/felted laths of plagioclase.

Groundmass is composed of fine, acicular felted plagioclase with interstitial K-feldspar (confirmed in thin section).

The coarser and intermediate size plagioclase phenocrysts show weak to moderate sericitic and "clay" alteration dusting with spots of carbonate. Chlorite (and lesser sericite) is pseudomorphous after other mafic crystals. The groundmass contains interstitial chlorite..

Opaques; <5%, composed of magnetite, and lesser pyrite.

The rock is cut by minute veinlets of chlorite/pumpellyite(?), sericite, carbonate, plagioclase and zeolite(?)

Note: Irregular clots of chlorite, carbonate, lesser sericite may be microamygdales. Not conspicuous in hand sample.

Microscopic description

Phenocrysts

Plagioclase; 25%, subhedral, (0.5 to >3.0 mm) laths, weakly felted/preferred orientation. Weak to moderate sericitic and "clay" alteration dusting. Spots of carbonate. Remnant twinning indicates upper andesine composition.

Augite; <5%, subhedral, (0.1 to >3.0 mm)

Intermediate phenocrysts

Pyroxene 15%, subhedral, (<.05 to >1.0 mm) Some rectangular square outlines. Looks like an amphibole but interference figure is biaxial (+), 2V about 50 degrees. Pale blue-green birefringence. Acicular/long prismatic.

Plagioclase; 15%, subhedral (<0.1 to 0.5 mm) bladed/felted laths with pyroxene, sericitic and clay dusting as for coarser phenocrysts.

RP-7 Continued

Groundmass

K-feldspar; 20%, anhedral. (<.01 to 0.1 mm?) interstitial to felted plagioclase. Obscured by "clay" dusting. Not confirmed in thin section.

Plagioclase?; 20%, subhedral, (<.05 to 0.5 mm) Felted/radiating acicular grains. Low birefringence.

Groundmass alteration

Chlorite; 10%, anhedral, (<.01 to .05 mm), interstitial to feldspar

Opaques; <5%, subhedral/euhedral, magnetite, lesser pyrite

Veinlets

Sericite

Carbonate

Chlorite/pumpellyite(?)

Zeolite

Plagioclase

RP-4 Porphyritic plagioclase, altered augite, hornblende trachyandesite

General description

Coarse plagioclase phenocrysts, radiating to very weakly aligned crystals. Lesser finer grained phenocrysts of augite and hornblende.

In a very fine felted groundmass of long bladed plagioclase, shredded amphibole (hornblende) and microgranular interstitial K-feldspar and epidote(?).

Plagioclase phenocrysts are moderately altered to sericite and "clay" dustings. Hornblende phenocrysts are partially altered to chlorite and epidote and some contain remnant granules of augite. Augite shows varied intensity of alteration to hornblende. Amphibole in groundmass has "shredded" appearance, (secondary?) generally low birefringence (chlorite alteration). There is a microgranular dusting of epidote and "clay" dusting of K-feldspar(?).

Scattered pyrite crystals.

Veinlets of plagioclase and of sericite.

Microscopic description

Phenocrysts

Plagioclase; <10%, subhedral/euhedral, to 1 cm). Long bladed/prismatic, single crystals, clusters. Weak/strong sericitic alteration. Twinning indicates composition in upper andesine range.

Hornblende; <5%, subhedral/euhedral (0.3 to >1.0 mm) bladed. Some grains contain granules of augite remnants. Alteration produces fibrous texture, to secondary amphibole, chlorite.

Augite; <5%, subhedral/euhedral (0.3 to >1.0 mm), scattered grains, clusters of grains. Varied intensity of alteration to hornblende and chlorite.

Groundmass 85%

Plagioclase, 25%, subhedral (<.05 to >0.3 mm). Slender prismatic, felted.

Amphibole (secondary?); 25%, subhedral, (<.05 to 0.2 mm). Slender prismatic, some broader prismatic, felted.

RP-4 Continued

K-feldspar: >10%(?), interstitial to plagioclase and altered amphibole in groundmass. Indicated by stained slab, not confirmed in thin section.
Note: K-stain pattern is very irregular (poor stain(?) or patchy distribution(?))

Opaques

Pyrite: <1%, euhedral, some associated hematite.

Alteration

Chlorite; <10%, alteration of hornblende and augite.

Amphibole; (secondary); <5%, alteration of hornblende

Epidote; <10%, alteration of hornblende

Veinlets

Plagioclase

Sericite

RP-5 Diorite

General description

Medium to coarse interlocking crystals of plagioclase, hornblende, augite and lesser biotite.

Plagioclase shows moderate to strong sericite, "clay" dusting alteration. Margins of most grains appear albitic. Hornblende shows little alteration. Augite, although forming minor clusters of remnant grains in hornblende, occurs as distinct crystals and clusters of crystals with weak fracture controlled (?) hornblende/biotite alteration. Biotite is also as distinct clusters of irregular grains but moderately/strongly altered to chlorite and lesser sericite.

Opaque grains, mainly magnetite and minor associated hematite are associated with mafics.

Stained slab indicates absence of K-feldspar.

Microscopic description

Plagioclase; 35%, subhedral, (<.05 to >3.0 mm, generally <2.0 mm), foliated/weakly felted clusters of crystals. Moderate to locally strong sericite and "clay" alteration dusting. Margins of most grains albitic, unaltered. Remnant twinning in centres of grains indicate composition in low to mid andesine range.

Hornblende; 20%, anhedral, (0.1 to 7.0 mm) very irregular grains, clusters of grains. Nonpoikilitic, contains few minute grains augite(?). Generally as distinct crystals but associated with both augite and altered biotite.

Augite; <20%, anhedral, (0.1 to >1.0 mm) very irregular interlocking crystals forming masses closely associated with hornblende and biotite. Slight alteration to hornblende and biotite, fracture controlled(?).

Biotite; 10%, anhedral, (<.05 to >1.5 mm, generally about 0.5 mm), very irregular grains, aggregates of grains. Most grains show partial chlorite and/or sericite(?) alteration as lensoids along cleavage planes. Crinkled deformed.

Opaque; >5%, anhedral/subhedral, (<.05 to 0.6 mm), single grains, clusters of grains commonly associated with mafics. Magnetite.

Alteration

Sericite; 5%, anhedral, (<.01 to 0.1 mm), alteration of plagioclase. Felted/crystallographic foliated.

Chlorite; >5%, anhedral, (<.01 to 0.1 mm). Alteration of biotite.

RP-5 Continued

"Clay" dusting; alteration of plagioclase

Secondary amphibole; Few scattered clusters of secondary green pleochroic fine felted needles (inclined extinction)

Epidote; traces, associated with secondary amphibole clusters.

RP-6 Strong altered weakly porphyritic hornblende granodiorite

General description

Interlocking fine/medium crystals of strongly altered plagioclase, hornblende with interstitial quartz and altered K-feldspar.

Plagioclase is strongly altered leaving granular cores of epidote in a strong "clay" sericite dusted groundmass pseudomorphous after original plagioclase grain. Hornblende is also intensely altered leaving granular remnants in a mixture of epidote, chlorite and lesser carbonate. K-feldspar occurs as very fine/microgranular altered interstitial material. Quartz forms conspicuous interstitial grains.

Microscopic description
Coarse crystals

Plagioclase; 30%, subhedral (<0.1 to >1.5 mm, generally 0.5 to 1.0 mm), interlocking grains. Moderate to strong sericite, "clay" dusting, epidote and minor carbonate alteration. Twinning virtually destroyed leaving feldspathic remnants.

Hornblende; 20%, subhedral, <0.2 to >1.0 mm, scattered grains to 6.0 mm) strong chlorite, epidote, carbonate alteration commonly leaving only irregular granular remnants.

Quartz; >10%, anhedral, (<.05 to 0.5 mm) interstitial. Strained extinction.

Fine interstitial materials

K-feldspar; 10%, confirmed by stained slab as very fine/microgranular, "clay" dusted altered interstitial material.

Accessory minerals

Sphene; traces, subhedral, (to 0.2 mm)

Alteration

Sericite; <5%, moderate to strong alteration of plagioclase

"Clay" dusting; <5%(?), strong alteration of plagioclase and K-feldspar.

Epidote; 10%, anhedral, (<.01 to >0.2 mm)
(a) As clusters of granules in and resulting from alteration of plagioclase and hornblende.

(b) as clusters of radiating crystals interstitial to altered plagioclase and hornblende.

RP-6 Continued

Carbonate; <5%, anhedral, (<.01 to 0.1 mm).

(a) very irregular masses, alteration of plagioclase and hornblende

b) irregular clusters of grains interstitial to plagioclase and hornblende.

Chlorite; 15%, anhedral, (<.01 to 0.05 mm), very fine felted clusters of grains replacing hornblende, interstitial to hornblende remnants.

RP-7 Syenite

General description

Composed of coarse elongate, foliated to weakly felted strongly perthitic K-feldspar. Interstitial dark green/bluish tint) hornblende (arfvedsonite?). Associated minor interstitial biotite grains and clusters of small grains.

Very weak chlorite and epidote alteration of biotite and hornblende. K-feldspar shows moderate "clay" alteration dusting. Perthitic plagioclase is less affected.

Minor magnetite grains and associated iron stain tend to be concentrated with mafics but some disseminated grains in feldspar.

Crackled, iron-stained.

Microscopic description

Orthoclase; 40%, euhedral/subhedral, (<1.0 to >5.0 mm) long prismatic, perthitic. Clouded by weak clay" dusting. Biaxial(-) 2V 50 degrees (too large for sanidine). Moderate clay alteration dusting. Perthitic; contains abundant very irregular masses of twinned plagioclase in low andesine range.

Plagioclase; 25%, anhedral, (<1.0 to 3.0 mm), as perthitic inclusions in orthoclase. Virtually unaltered. Twinning indicates composition in lower andesine range. Comprises over 50% of some K-feldspar crystals.

Hornblende (arfvedsonite?); >10%, anhedral (0.2 to >3.0 mm) irregular grains, clusters. Partially replaced by biotite, feldspar. Associated opaques.
Vivid dark green, faint bluish tint. Birefringence masked by intense colour. Some grains give near uniaxial (-) interference figure??

Biotite; <5%, anhedral, (<0.5 to >2.0 mm) very ragged grains, clusters of grains interstitial to feldspars. Some warping. Associated chlorite and epidote alteration of some grains.

Muscovite; traces, subhedral/anhedral, (<.05 to 0.2 mm), irregular bladed, clusters

Opaques; <1%, euhedral/subhedral grains, (0.1 to 1.0 mm), magnetite. Associated hematite and iron stain.

Alteration
Chlorite

Epidote

RP-8 Monzonite/quartz monzonite

General description

Composed of medium grained interlocking irregular crystals of plagioclase slightly poikilitic and hornblende with very minor altered (biotite/amphibole). K-feldspar forms medium irregular interstitial grains with very minor but confirmed quartz.

Plagioclase is dusted by weak "clay" and very weak sericite alteration. Biotite/amphibole is strongly altered to chlorite and secondary amphibole. K-feldspar has a very slight patchy "clay" dusting. Hornblende is weakly altered by small clusters of epidote grains.

Accessories include sphene, traces apatite. Minor opaque grains (magnetite) associated with hornblende and lesser disseminated in feldspar groundmass.

Minor magnetite generally associated with mafics.

Veinlets of carbonate, epidote

Microscopic description

Plagioclase; 35%, anhedral/subhedral, (<0.1 to >3.0 mm, generally 2.0 to 3.0 mm), interlocking grains and with hornblende. Weak dusting of clay" and sericite alteration. Twinning largely obliterated but indicates composition in low to mid andesine range.

K-feldspar; 25%, anhedral, (to 5.0 mm, generally 2.0 to 3.0 mm), interstitial to plagioclase and hornblende. Very weak spotty "clay" alteration dusting. Weak poikilitic texture containing minute plagioclase grains.

Hornblende; 10%, anhedral, (<0.2 to >2.0 mm), very irregular grains, clusters of grains, weak poikilitic texture enclosing slightly rounded fine grains of plagioclase. Altered slightly by scattered clusters of epidote grains.

Altered biotite/amphibole; <5%, anhedral, (masses to >2.0 mm), very irregular grains, clusters of grains. Strong chlorite and secondary amphibole alteration.

Quartz; <10%, anhedral (0.2 to >1.0 mm), very irregular grains, interstitial to plagioclase and hornblende. Strained extinction. Confirmed, uniaxial (+).

Accessories

Sphene; >1%, anhedral/subhedral, (<.05 to 1.0 mm) Single and clusters of grains associated with hornblende.

RF-2 Continued

Apatite, <1%, euhedral/subhedral. (<.05 to 0.3 mm)

Opaque; 5%, anhedral/subhedral, (<.01 to >1.0 mm), generally associated with mafics. Magnetite.

Alteration

"Clay" alteration dusting of plagioclase

Sericite; <1%, dusting of plagioclase

Epidote; <5%, clusters associated with hornblende and altered amphibole/biotite. Fracture controlled clusters of grains.

Chlorite; <1%, intense alteration of biotite(?)

Secondary amphibole; alteration of biotite(?)

Carbonate; traces, associated with epidote.

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Job 93b
October 1990

Project: #3131

Samples: WP Series: TS-90-2 to TS-90-5

Summary:

The samples are of intermediate to mafic volcanic and hypabyssal rocks. Some show strong fractionation, with phenocrysts of clinopyroxene and hornblende and groundmass containing moderately abundant K-feldspar. Most contain veins of a variety of types and commonly of more than one age. Samples TS-90-4 and TS-90-5 contain major veins of an unknown calc-silicate.

Sample TS-90-2 is a porphyritic alkali diorite containing phenocrysts of plagioclase and lesser ones of hornblende and clinopyroxene in a groundmass of plagioclase, K-feldspar and hornblende, with minor opaque and epidote.

Sample TS-90-3 is a porphyritic andesite containing phenocrysts of plagioclase and minor hornblende in a groundmass dominated by plagioclase and much less hornblende (altered to ankerite-tremolite/sericite), with minor opaque and K-feldspar.

Sample TS-90-4 is a porphyritic alkali basalt containing phenocrysts of plagioclase, clinopyroxene, and hornblende in a groundmass dominated by plagioclase with much less epidote, biotite, K-feldspar and opaque (oxide?). A vein of a calc-silicate mineral of unknown composition has a broad inner halo containing abundant cryptocrystalline epidote and no K-feldspar, and a narrower outer halo containing abundant K-feldspar and patches of coarser grained epidote.

Sample TS-90-5 is a porphyritic alkali basalt containing phenocrysts of plagioclase and clinopyroxene in a very fine grained groundmass dominated by plagioclase and chlorite. Veinlets and veins, and patches are dominated by an unknown calc-silicate, less calcite, and minor K-feldspar and epidote. K-feldspar also is concentrated in a halo surrounding these.

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Sample WP-TS-90-2 Porphyritic Alkali Diorite

Phenocrysts of plagioclase and lesser ones of hornblende and clinopyroxene are set in a groundmass of plagioclase, K-feldspar and hornblende, with minor opaque and epidote.

phenocrysts			
plagioclase	20-25%		
hornblende	7- 8		
clinopyroxene	3- 4		
groundmass			
plagioclase	50-55	sphene	minor
K-feldspar	5- 7	biotite	minor
hornblende	3- 4	apatite	minor
opaque	1	sericite	minor
epidote	0.5		
veinlet			
ankerite	minor		

Plagioclase forms euhedral to subhedral phenocrysts averaging 0.5-2.5 mm in size. They commonly have broad more-calcic cores which are altered moderately to strongly to sericite, and narrow, strongly zoned more-sodic rims, which are fresh to only slightly altered to sericite. A few plagioclase phenocrysts are altered strongly to patches of very fine to fine grained epidote.

Hornblende forms subhedral phenocrysts averaging 0.7-2 mm in size, with a few elongate grains from 3-5 mm in length. Some are draped around plagioclase phenocrysts. Pleochroism is from light to medium brownish green. They are fresh.

Clinopyroxene forms phenocrysts averaging 0.7-1.5 mm in size, with a few up to 3 mm across. Alteration is moderate to complete to pseudomorphic, pale green tremolite/actinolite and patches of cryptocrystalline epidote. Clinopyroxene is colorless.

In the groundmass, plagioclase forms subhedral to euhedral grains averaging 0.05-0.25 mm in size. These are miniature versions of the phenocrysts with respect to zoning and alteration. K-feldspar forms anhedral grains interstitial to plagioclase averaging 0.1-0.3 mm in size, with a few up to 0.5 mm across.

Hornblende forms subhedral to euhedral grains averaging 0.1-0.2 mm in size. Epidote forms anhedral patches averaging 0.1-0.3 mm in size, and a few larger ones from 0.7-1.2 mm across. Opaque forms disseminated, subhedral cubic grains and clusters averaging 0.1-0.5 mm in size.

Biotite forms flakes up to 0.5 mm in size; they are altered completely to pseudomorphic, light green chlorite with minor lenses of Ti-oxide. Sphene forms anhedral grains averaging 0.05-0.1 mm in size, in part associated with biotite. Apatite forms subhedral grains averaging 0.03-0.1 mm in size, commonly associated with opaque. A few interstitial patches are of subradiating sericite flakes averaging 0.0-30.05 mm in length.

An irregular, discontinuous veinlet averaging 0.03-0.07 mm in width is of extremely fine grained ankerite.

Sample WP-TS-90-3   Porphyritic Andesite

Phenocrysts of plagioclase and minor hornblende are set in a groundmass dominated by plagioclase and much less hornblende (altered to ankerite-tremolite/sericite), with minor opaque and K-feldspar.

phenocrysts	
plagioclase	10-12%
hornblende	0.5
groundmass	
plagioclase	70-75
ankerite/sericite	12-15
opaque	2- 3
K-feldspar	1- 2
epidote	trace
veinlets	
calc-silicate	trace

Plagioclase forms euhedral to subhedral phenocrysts averaging 0.7-2 mm in size, and a few clusters of similar grains. Alteration is mainly strong to complete to dense aggregates of extremely fine grained sericite, except in thin more-sodic rims, which are fresh to slightly altered to sericite. A few plagioclase phenocrysts are altered partly to completely to anhedral grains of scapolite(?), which is colorless, and has low relief, no cleavage, and moderate birefringence.

Hornblende forms a few subhedral, prismatic phenocrysts averaging 0.7-1.2 mm in length. Alteration is complete to cryptocrystalline to extremely fine grained aggregates of ankerite and tremolite(?).

In the groundmass, plagioclase forms subhedral prismatic grains averaging 0.07-0.1 mm in length which are intergrown with anhedral plagioclase grains and patches of ankerite-tremolite/sericite (after hornblende?), each averaging 0.03-0.07 mm in size. Groundmass plagioclase commonly also is zoned, with cores more strongly altered to sericite than rims.

K-feldspar forms interstitial grains averaging 0.05-0.15 mm in size.

Tremolite/actinolite forms a few prismatic grains averaging 0.1-0.2 mm long.

Opaque forms disseminated grains ranging from 0.02-0.3 mm in size, and a few very irregular patches up to 0.6 mm across.

A few ragged patches up to 0.4 mm across are of very fine grained epidote.

A few wispy veinlets averaging 0.01-0.02 mm wide are of extremely fine grained calc-silicate as in Samples 90-4 and 90-5.

Sample WP-TS-90-4 Porphyritic Alkali Basalt; Vein of Calc-silicate with Inner Halo rich in Epidote and Outer Halo rich in Epidote and K-feldspar

Phenocrysts of plagioclase, clinopyroxene, and hornblende are set in a groundmass dominated by plagioclase with much less epidote, biotite, K-feldspar and opaque (oxide?). A vein of a calc-silicate mineral of unknown composition has a broad inner halo containing abundant cryptocrystalline epidote and no K-feldspar, and a narrower outer halo containing abundant K-feldspar and patches of coarser grained epidote.

phenocrysts		
plagioclase	12-15%	
clinopyroxene	4- 5	
hornblende	3- 4	
apatite	0.2	
groundmass		
plagioclase	55-60	
epidote	10-12	
K-feldspar	4- 5	(concentrated in outer halo of vein)
opaque (oxide?)	1- 2	
biotite	2- 3	
calcite	minor	
vein		
calc-silicate	2- 3	

Plagioclase forms subhedral to euhedral, equant to prismatic phenocrysts averaging 0.5-1 mm in size, with a few up to 2 mm across. Composition appears to be labradorite to andesine. Most are altered strongly to sericite.

Clinopyroxene forms colorless to pale green, subhedral phenocrysts averaging 0.7-1.5 mm in size, with a few up to 4 mm long. Alteration of some is slight to moderate to extremely fine grained material with high relief. One large phenocryst contains a few inclusions of opaque up to 0.3 mm in size. One is replaced by pseudomorphic tremolite.

Hornblende forms subhedral phenocrysts averaging 0.7-1.5 mm in size. Pleochroism is from light yellowish green to light/medium green. Grains are fresh.

Some mafic phenocrysts occur in clusters, with cores of clinopyroxene surrounded by grains of hornblende and locally by much finer grained biotite.

Apatite forms subhedral to euhedral prismatic phenocrysts up to 1 mm long.

The groundmass is dominated by anhedral to subhedral plagioclase grains averaging 0.03-0.05 mm in size. Alteration is slight to moderate to sericite.

K-feldspar forms grains averaging 0.2-0.5 mm in size, mainly interstitial to plagioclase. K-feldspar is concentrated moderately to strongly in the outer halo of the vein. It contains dusty brown hematite(?) inclusions, which give the mineral a pale brown color.

Epidote forms ragged patches averaging 0.05-0.15 mm in size intergrown with groundmass plagioclase, and coarser grained, replacement patches up to 1.2 mm across. The latter are concentrated in the outer halo of the vein. Tremolite/actinolite forms subhedral, stubby prismatic grains averaging 0.05-0.1 mm long.

(continued)

Biotite forms ragged flakes averaging 0.07-0.17 mm in size. Alteration is complete to pseudomorphic chlorite and minor lenses of Ti-oxide.

Calcite forms grains averaging 0.05-0.1 mm in size, commonly interstitial to opaque.

In the vein, the unknown calc-silicate forms aggregates of extremely fine to fine grains, ranging from equant to prismatic in habit. The prismatic grains have textures typical of tremolite (including moderately inclined extinction), but the mineral is length-fast, and the anhedral, equant grains are not typical for tremolite. Calcite forms a few anhedral grains up to 0.1 mm in size.

In the inner halo, epidote is moderately abundant as cryptocrystalline aggregates with a pale to light brown color. A few patches up to 1 mm in size are of the calc-silicate with minor calcite; these replace mainly plagioclase in phenocrysts and the groundmass. The calc-silicate forms strongly interlocking, very fine, anhedral grains.

In the outer halo, K-feldspar forms abundant, interstitial anhedral grains up to 0.5 mm in size. Epidote is common as replacement patches up to 1.2 mm in size of very fine to fine grained aggregates.

Sample WP-TS-90-5 Porphyritic Hypabyssal Basalt; Veins of Calc-silicate-Calcite-K-feldspar; Late Veinlets of Ankerite, Limonite

Phenocrysts of plagioclase and clinopyroxene are set in a very fine grained groundmass dominated by plagioclase and chlorite. Veins, veinlets, and patches consist of an unknown calc-silicate, calcite, and minor K-feldspar and epidote. K-feldspar also is concentrated in a halo surrounding these.

phenocrysts			
plagioclase	7- 8%	hornblende	minor
clinopyroxene	2- 3		
groundmass			
plagioclase	55-60	sphene/Ti-oxide	0.4%
chlorite	10-15	ilmenite/Ti-oxide	0.3
K-feldspar	5- 7	epidote	minor
calcite	1- 2	hornblende	minor
veinlets, veins, patches			
calc-silicate	2- 3	ankerite	0.3
calcite	1- 2	limonite	0.1
K-feldspar	0.5	epidote	minor

Plagioclase forms subhedral, generally equant to stubby prismatic phenocrysts averaging 0.7-1 mm in size, with a few up to 1.7 mm long. Alteration is strong to extremely fine to very fine grained sericite. Coarser patches of sericite have a feathery texture.

Clinopyroxene forms subhedral, mainly stubby prismatic phenocrysts averaging 0.3-1.2 mm in size. Alteration is moderate to pseudomorphic pale green tremolite/actinolite and/or chlorite, with local patches of calcite and of sphene.

Hornblende forms subhedral to ragged phenocrysts averaging 0.2-1 mm in size, with a light greenish brown color.

In the groundmass, plagioclase forms stubby, subhedral grains averaging 0.1-0.3 mm in size. Alteration is slight to moderate to sericite. K-feldspar forms interstitial grains averaging 0.05-0.1 mm in size, and may also form replacements of margins of plagioclase grains. Chlorite forms interstitial patches averaging 0.07-0.2 mm in size of very fine grained, pale to light green flakes. Calcite forms scattered, irregular, interstitial, replacement grains up to 0.7 mm in size. Sphene and ilmenite each form disseminated grains averaging 0.05-0.15 mm in size, which are altered in part to Ti-oxide. Epidote forms a few irregular, interstitial patches up to 0.2 mm in size. Hornblende forms a few prismatic grains up to 0.2 mm long.

Veins up to 1 mm wide and patches up to 0.8 mm across are dominated by fine to extremely fine grained calc-silicate. Coarser grained calc-silicate commonly has a subradiating, prismatic habit. It is similar in texture to tremolite but has parallel extinction and length-fast character. Some veins and patches are dominated by very fine to medium grained calcite. K-feldspar is concentrated in some larger veins with calc-silicate as grains averaging 0.2-0.3 mm in size, and is concentrated along margins of veins and replacement patches, probably mainly as a replacement of plagioclase. Epidote forms subhedral to anhedral grains averaging 0.1-0.3 mm in size, mainly intergrown with calc-silicate. Calcite forms irregular patches and veinlets up to 0.5 mm wide. Grains are mainly from 0.1-0.7 mm in size. One calcite vein contains a flake of chlorite 0.3 mm long.

A few late veinlets and veins averaging less than 0.1 mm wide are of extremely fine grained ankerite. Some of these truncate and offset veins dominated by calc-silicate. One late slightly braided veinlet

APPENDIX 6

STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Philip James Southam, of #106 - 8675 Laurel Street, Vancouver, British Columbia, Canada, hereby certify that:

1. I am a graduate of Brandon University, Brandon, Manitoba, Canada, having been granted the degree of Bachelor of Sciences - Specialist in Geology in 1987.

2. I have practiced my profession as a geologist in mineral exploration since 1987.

3. I am presently employed as a geologist with Homestake Mineral Development Company of #1000 - 700 West Pender Street, Vancouver, British Columbia.

4. I supervised and participated in the work that was completed on this property and have reviewed all previous available information.

PHILIP SOUTHAM