



Cyprus Gold Australia Corporation

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PROGRESS REPORT

TWELVE MONTHS TO JUNE 1988

EXPLORATION LICENCE 11/85

YOLANDE

TASMANIA

AMG REFERENCE POINTS ADDED

R POLTOCK

JULY 1988

REPORT 594

CYPRUS

DISTRIBUTION

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1	PYRITE ALTERATION ZONE ALONG HENTY FAULT EL 11/85: COMMENTS by Dr Ross Large
2	ANALYTICAL RESULT SHEETS AND SAMPLE RECORDS <ul style="list-style-type: none"> a) Newton Creek - Rock Geochemistry b) Newton Creek - Soil-Wacker Geochemistry c) Newton Creek - Platinoid Soil, Wacker, Rock Geochemistry d) Newton Creek - Stream Geochemistry e) Howard's Road 8.2 km peg - Rock Geochemistry f) Henty River - Stream Geochemistry g) Lynchford - Stream Geochemistry h) Woody Hill (Macquarie) - Rock Geochemistry

ENCLOSURES

		Scale
1	EL 11/85 - Newton Creek	
	● INTERPRETIVE GEOLOGY AND SAMPLE LOCATIONS (NORTH SHEET)	1:10000
2	● INTERPRETIVE GEOLOGY AND SAMPLE LOCATIONS (SOUTH SHEET)	1:10000
3	● INTERPRETIVE GEOLOGICAL SECTIONS AND SOIL/ROCK GEOCHEMISTRY	
4	● LINE 12N	1:5000
5	● LINE 14N	1:5000
6	● LINE 16N	1:5000
7	● LINE 18N	1:5000
8	● LINE 20N	1:5000
9	● LINE 22N	1:5000
10	● LINE 24N	1:5000
11	● LINE 26N	1:5000
12	● LINE 28N	1:5000
13	● LINE 30N	1:5000
14	● LINE 32N	1:5000
	● LINE 33N	1:5000



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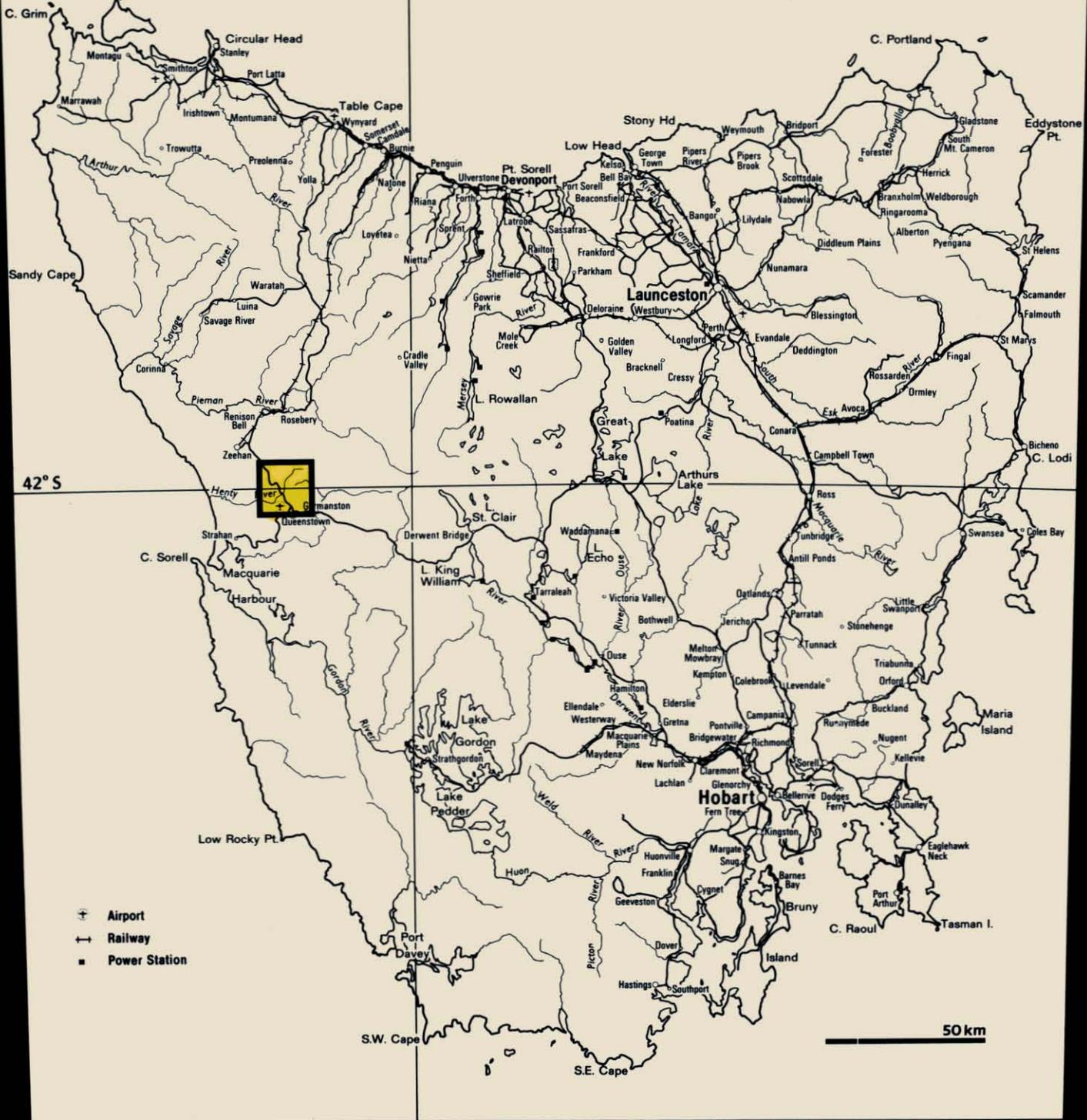
146° E

759006

TASMANIA



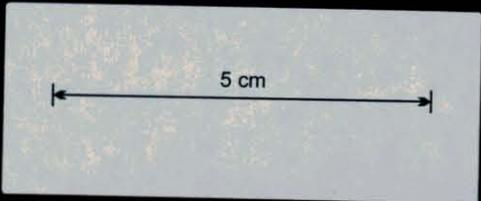
BASS STRAIT



42° S

- ✈ Airport
- 🚂 Railway
- ⬛ Power Station

50 km



Project Location

SUMMARY AND CONCLUSIONS

The soil and rock geochemical grid at Newton Creek has been infilled to a line spacing of 400 meters. No outcropping base metal or gold mineralization has been located but alteration and volcanic lithologies in the northeast corner of the licence warrant further exploration.

Stream sediment and geological reconnaissance of the Henty River Sequence of basic to intermediate volcanics and volcanoclastics failed to locate any base metal anomalies. Weak gold stream geochemistry in the extreme southwest of the area warrants follow-up. It is considered the base metal potential of this sequence which has been correlated by the Mines Department with that at Que River has been adequately tested.

Carbonate altered ultramafics in the North Henty Fault zone at Line 14N are anomalous in gold and arsenic; anomalous sites should be sampled in more detail. A suit of ultramafics from

this fault zone were submitted for platinoid analysis without significant results.

At Lynchford the volcanic sequence was evaluated by stream sampling for gold and base metals, anomalous gold in panned concentrates at Lynch Creek is considered to have been derived from the old King River Mine area south of the licence area. Weak gold, copper, lead and zinc geochemistry in this area is interpreted to be associated with andesitic volcanics rather than mineralization.

The old Macquarie gold mine in the extreme southwest of the tenement was located and sampled without significant results.

Proposed assessment of the alluvial gold occurrences in the Lake Margaret area was not undertaken.

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RECOMMENDATIONS

The northeastern-most 1 kilometer square block of EL 11/85 at Newton Creek is still considered prospective for volcanic hosted gold and massive sulfides, warranting further exploration using geochemistry and electrical geophysics. To effectively cover the prospective horizons a joint venture should be entered into with CRAE/Aberfoyle on the adjoining EL 5/85.

The shales and andesites of the Henty River Sequence between Lines 22 and 30N at Newton Creek should be assessed in more detail for massive sulfides using stream based geological mapping and rock geochemistry.

Anomalous gold in stream samples in the southwest sector of the Henty River Sequence should be followed up by geological and geochemical prospecting along streams.

Carbonate altered ultramafics anomalous in gold and arsenic in the North Henty Fault at Line 14N should be sampled in greater detail.

Rhyolitic to dacitic porphyries in the Lake Margaret-Davies Hill-Zeehan Road area should be prospected on a reconnaissance basis for gold and base metals.

INTRODUCTION

Work on Exploration Licence 11/85 (EL 11/85) in the 1987/88 year was primarily directed toward locating volcanic hosted gold and massive sulfides. Cyprus managed and carried out all exploration during the period.

The main exploration effort was at Newton Creek with reconnaissance programs in the southwest Henty area and at Lynchford. Siluro-Devonian sediment hosted quartz veins at the old Macquarie Mine were sampled for gold.

EXPLORATION TARGETS

The exploration licence covers a portion of the Cambrian Mt. Read Volcanics, the southern extent of the Henty Fault Zone and Ordovician-Devonian sediments.

The main targets for exploration are:

- . Gold associated with the Henty Fault in pyritic massive sulfides, sulfidic cherts and vein systems similar to Renison Goldfields and Little River Goldfields's Henty prospect 3 kilometers north of Newton Creek, Billiton, Norgold and Little River Goldfields Rosebery East project 15 kilometers further north. Renison Goldfields is commencing a 1 kilometer decline shaft development at the Henty prospect for underground exploration where drill intersections of up to 11 meters of 56.1 g/t gold have been reported and an estimated minimum production of 25000 ounces over a five year period have been announced

- . Polymetallic volcanic hosted massive sulfides with reserves of 10 to 15 million tonnes of 20% lead, zinc with gold and silver credits similar to the Rosebery and Que River/Hellyer deposits 15 and 40 kilometers north respectively.

Secondary targets include:

- . Gold hosted in vein systems and calcareous/carbonaceous sediments in Ordovician to Devonian sediments in proximity to major structural zones. This style of mineralization is currently being prospected under joint venture between Cyprus and Montroyal Mining on EL 9/84 at Lynchford
- . Platinoids and gold in ultramafic slithers contained in the North Henty Fault.

DESCRIPTION OF THE PROPERTY AND OWNERSHIP _____

Exploration Licence 11/85 comprises 145 kilometers and was granted to Cyprus on August 20, 1985. The licence is now held under joint venture with the Electrolytic Zinc Company.

The area lies outside the South West Conservation Area, the land status is either uncommitted crown land or Hydro Electric Commission (HEC) reserves in proximity to the Henty Anthony dam construction area.

LOCATION AND ACCESS

The licence is located in western Tasmania between Rosebery and Queenstown, lying immediately west of the rugged West Coast Range (Figure 1).

Topographically the highest point is 600 meters ASL in the north on the slopes of Mt Read, moving south there is a glaciated plain at 500 meters ASL which is deeply dissected by the Henty Gorge. Further south in the Queenstown area the main feature is an extensive coastal plain at 200 meters ASL. This has also been deeply dissected by the Yolande and Henty Rivers.

Annual rainfall of 3660 millimeters has been recorded at the Newton Creek Hydro Electric Commission construction camp, most of this falling during the winter months. Snow frequently falls down to the 500 meter level but rarely settles for more than a few days.

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759018 Figure 1

Location

magnetic declination 13.5° 10 km

Access to the licence is by a system of all-weather roads, including the Queenstown-Zeehan and the recently completed Henty Anthony road. The Cyprus base at Zeehan is within 40 minutes drive of the licence; most areas can be effectively accessed by foot on a daily basis. The first stage of HEC development at Newton Creek is scheduled for completion in August 1988 with the flooding of the White Spur and Henty Dams and the connecting Henty Canal.

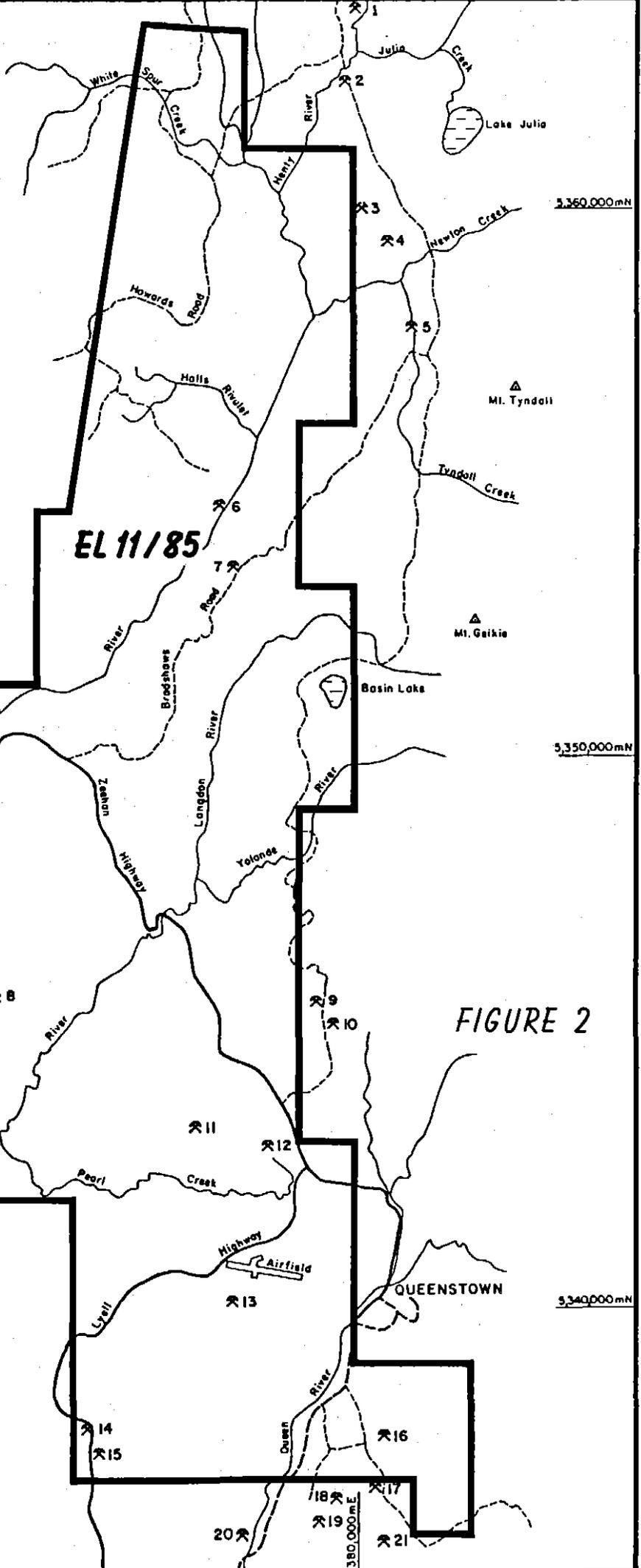
HISTORY AND PREVIOUS EXPLORATION

At the turn of the century the licence area would have been prospected for gold, copper, lead, zinc and barium as is indicated by the scatter of old workings (Figure 2). There is no record of mineral production from the area.

Modern exploration techniques were applied to the area commencing in the 1950's and were aimed primarily at locating Mt Lyell and Rosebery style massive sulfides. This phase of exploration involved the Mt Lyell Company, Rio Tinto and Pickands Mather.

In the period from 1966 to 1983 the Mt Lyell Company held what is now EL 11/85 under licence as part of 9/66 Tyndall and 41/71 Henty-Yolande; the latter area was in part held by Cyprus Mines before 1971.

No	NAME	COMMODITY
1	Henty Fault Zone	Au,Cu,Pb,(Zn)
2	Harris Reward	Pb
3	Line 30 Pit	Zn,Pb,Ag,(Cu)
4	Tyndoll Mine	Pb,Zn,Cu,Ag
5	Howards Anomaly	Ag,Ba,(Pb,Zn)
6	Henty River Adits	Pb,Zn,Ag
7	Henty Gorge Adit	? Au
8	Sisters Hills	Limonite
9	West Sedgwick	Pyrite
10	Lake Margaret Road	Au
11	Diamond Hill	Au (Pb,Zn?)
12	Madam Howards Plains	Ba,Pyrite
13	Madam Howard Mine	Au
14	Macquarie Mine	Au
15	Woody Hill Mine	Au
16	Golflinks East	Cu
17	Upper Lynch Creek	?
18	Ollphants	Asbestos
19	King River	Au
20	Princess River	Au
21	Lynch Creek South	Au



5 cm

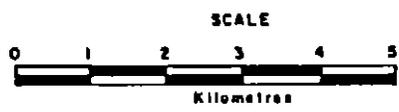


FIGURE 2

PROJECT: E L 11/85 YOLANDE JV

MINERALISATION OCCURRENCES

Compiled: I McD	Date: 12-12-85	PLAN No
Drawn: R J R	Scale: 1:100 000	A4-519-0001

Mt Lyell's exploration effort was concentrated in the northern section of the licences using soil geochemistry and electrical geophysics:

- . East and west Tyndall Grids, altered and pyritic volcanics
- . White Spur Grid horizon, diamond drillholes WSP-2 and 103 are located within the current licence
- . Henty River Grid; small low grade lead-zinc sulfide lenses adjacent to the South Henty Fault tested by diamond drillholes HR-1 to 5, the best intersection being 12 meters of 4.22% lead, 1.84% zinc and 16 g/t silver.

Getty Oil Development Company entered a joint venture with Mt Lyell in the early 1980's exploring the Halls Rivulet area (West Tyndall grid, Lines 8 to 20N) for carbonate hosted tin mineralization. No significant results were obtained.

In the southern part of the tenement Mt Lyell's work was of a more reconnaissance nature with stream geochemistry and airborne Dighem the main exploration methods used. The only detailed work was the assessment of the gold potential of the Madam Howard's barite occurrence.

Mines Department drilling in EL 11/85 included three holes at Madam Howard's prospect to test the barite resource and concluded the tonnage potential was too small to warrant further work. The Bradshaw's Road stratigraphic hole in the South Henty Fault zone (AMG 5350434N:374929.5E) intersected fine tuffaceous sediments and tholeiitic basaltic volcanics. No significant mineralization was intersected in the fault zone but carbonate veining is widespread.

In the first two years of the licence Cyprus and EZ carried out concurrent exploration. In 1985-86 Cyprus completed an EM 37 survey over the sulfide lenses at Mt Lyell's Henty River Grid, with no significant responses. The EZ Company reviewed geophysical data from the East and West Tyndall grids and

commenced a stream sediment and rock geochemical survey of the North Henty Fault Zone for base metals, gold and platinoids with no significant results.

In 1986-87 Cyprus continued the gold base metal assessment of the Henty Fault Zones in the northern part of the licence by re-establishing old grid Lines 14 to 31N of the Tyndall grid. An extensive but barren pyritic alteration zone associated with the South Henty Fault was located. EZ tested the gold potential of the intersection of Cambrian porphyries with the South Henty Fault at their Henty grid, however no significant results were obtained.

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REGIONAL GEOLOGY AND MINERALIZATION

The regional geological setting is related to Paleozoic volcanic and sedimentary processes in a linear trough (the Dundas Trough) along the western margin of the Precambrian Tyennan nucleus composed of metamorphosed siltstones and quartzites. Early Cambrian sedimentation includes sandstone, shale and carbonates (Success Creek Group) followed by mudstones, greywacke and basic volcanics (Crimson Creek Formation) and in the middle to late Cambrian mudstones conglomerate and minor volcanics of the Dundas Group. The associated calc-alkaline Mt Read Volcanics developed on the shallow water eastern margin of the trough sediments adjacent to the Precambrian nucleus. The volcanics interfinger with or are faulted against the Cambrian sediments (Upper Dundas Group) to the west and are composed of rhyolite, dacite, intermediate rocks and basalt in the form of lava flows, breccias, tuffs and plugs. Crustal processes during this latter period resulted in serpentized ophiolitic material being thrust into the sediments of the trough. Tectonic interpretations of

these ophiolitic mafic complexes are conjectural and include subduction and rifting.

Sedimentation continued through the late Cambrian into the Ordovician with deposition of siliceous sands and gravels. The basal member of this sequence, the Owen Conglomerate was derived from the Tyennan Block quartzites and slates, being deposited as thick wedges in north-south trending grabens developed on the Central Volcanics. The Henty and Osmund Faults are examples of structures controlling this deposition.

More laterally extensive shales, limestones and sandstones of the Junee and Eldon Groups overlie the basal conglomerates.

Folding and faulting of the above sequences and post tectonic granitoid intrusives occurred during the mid Devonian Tabberabberan Orogeny and the resulting sedimentary-intrusive complex is overlain by sub-horizontal Carboniferous-Triassic successions intruded by Jurassic dolerite sills and dikes.

All known metal mines and prospects in the region occur in late Precambrian to late Devonian rocks. Base metal and gold production is dominated by the Mt Lyell, Rosebery and Que River mines (Table 1). These are volcanogenic massive sulfide deposits hosted by the central parts of the Cambrian Mt Read Volcanics, a sequence of felsic breccias, tuffs and lavas with minor siltstone. The deposits are characterized by large tonnage and area and are finely layered with generally high zinc-copper ratios. Typical mineral assemblage is pyrite, sphalerite, galena and chalcopyrite with silica and barite gangue minerals. They have extremely variable conductivity and chargeability properties. Airborne EM systems have been successfully used to detect massive sulfides, for example the Que River S lens, however the much larger Que River P lens is nonconductive and lacked an EM response but was strongly responsive to the induced polarization technique. Other favored ground techniques include stream sediment and soil geochemical sampling especially in areas where outcrop and access is poor. However stream sediment dispersion trains may be short (less than a few hundred meters)

due to rapid dilution caused by high rainfall and the acid reducing environment caused by thick vegetation. In rapid flowing streams where there is an absence of -80 mesh silt, consideration should be given to cold extraction geochemistry to detect trace metals fixed by manganese and iron coatings on gravels. This technique can enhance an anomaly to background contrasts and give longer dispersion trains around mineralization.

TABLE 1 BASE METAL AND GOLD PRODUCTION - TASMANIAN WEST COAST

Mine	Gross Reserves (million tonnes)	Grade
Rosebery	18.4	5.6% Pb, 18.2% Sn, 0.7% Cu, 187 g/t Ag, 3.4 g/t Au
Mount Lyell	147	1.5% Cu, 8 g/t Ag, 0.4 g/t Au
Que River	3	7% Pb, 12.5% Zn, 171 g/t Ag, 3.5 g/t Au
Hellyer	15+	Similar grades to Que River
Renison	24	1.1% Sn
Mt Bischoff	18	0.8% Sn
Cleveland	6	0.8% Sn, 0.3% Cu
Queen Hill (Group)	7	0.7% Sn
Henty Prospect		25000 oz Au pa (estimated production) grade unknown

A second style of economically significant volcanic hosted mineralization has been recently recognized in the Henty Fault Zone between the HEC Henty Dam and Tullah to the north.

Mineralization is principally gold and silver with minor amounts of copper, lead and zinc. At Renison Goldfields's LRG Henty prospect gold in vein systems is hosted by a sequence containing lenses of pyritic massive sulfides and sulfidic cherts. Further north at Stirling Valley the mineral assemblage is gold, tin and arsenic.

Although mineralization occurs in the volcanics it seems likely that Devonian granitoids may also be instrumental, remobilizing gold into structurally prepared sites.

Another important deposit type is sediment hosted replacement tin associated with granitoids. A major example is the world's largest underground tin orebody at Renison with smaller deposits at Mt Bischoff, Cleveland and Queen Hill. Host rocks are Cambrian dolomitic sediments intruded by Devonian to Carboniferous tin bearing granites which do not necessarily outcrop. The mineral assemblage is cassiterite-pyrrhotite and the most useful initial exploration technique is magnetic surveying.

Also associated with Devonian granitoid intrusives are the scheelite skarn deposits examples of which are mined at King Island and Kara.

Subeconomic occurrences of copper, tungsten skarns with minor gold have been prospected at Colebrook Hill and Mount Ramsay. Gold bismuth skarns occur in the Moina area.

Exploration and small scale mining indicate possibilities for discovery of economic deposits in a number of other environments notably stratabound lead-zinc mineralization in Gordon Limestone and nickel/platinum/asbestos mineralization in serpentized ophiolitic masses.

GEOLOGY AND MINERALIZATION OF THE PROPERTY

The geology of the licence area has been mapped by the Mines Department at 1:25000 scale, Geology of the Henty River-Mount Read Area and the Lyell and Strahan 1:50000 sheets. A compilation of the geology has been made by EZ (Figure 3).

There is no Precambrian basement exposed in the licence.

The Yolande licence covers a segment of the western flank of the Cambrian Mount Read Volcanics. Central Sequence rhyolites and to a lesser extent andesites are exposed in the east, these are overlain and possibly interfinger with the predominantly epiclastic Western and White Spur Sequences in the west. The Cambrian stratigraphic nomenclature follows that of Corbett. A series of rhyolitic to andesitic quartz feldspar porphyries intrude the volcanics.

- S-D Eldon Group Sediments
- Og Gordon Limestone
- Oo Owen Conglomerate
- €dg Dundas Group Sediments
- €ws White Spur Formation
- €wst Mainly Felsic Tuff
- MRV Mount Read Volcanics
- €Hs Henty Block Sediments
- €Ho Henty Block Andesites
- €Hb Henty Block Basalts
- €tg Tyndall Group
- CV Central Volcanics
- VS Western Volcano-Seds.
- VSt Mainly Felsic Tuff
- Vsb Basaltic Volcanics
- VSq Quartz wacke-Siltstone
- €p Quartz-Feldspar Porphyry
- €ga Gabbro
- €u Ultramafic

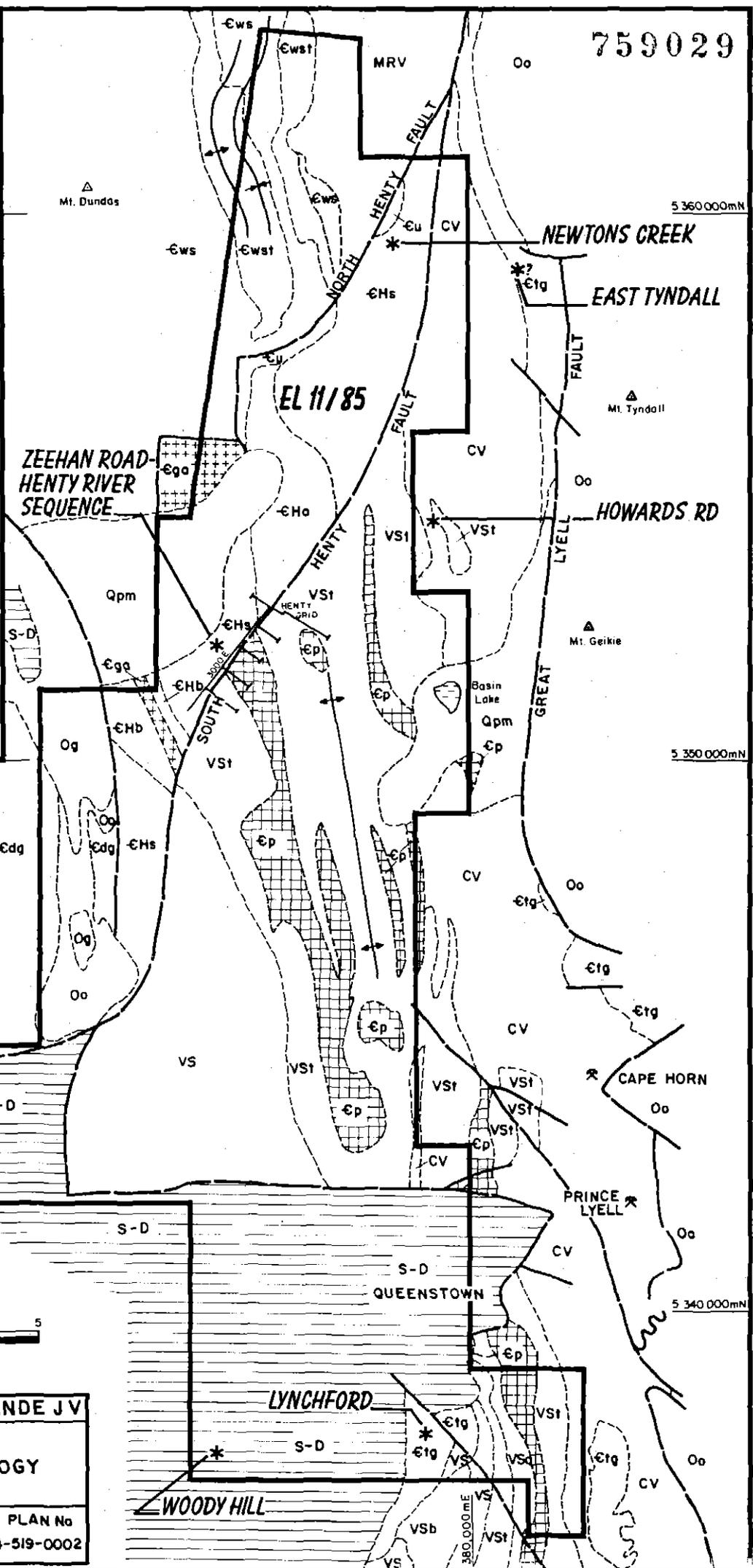
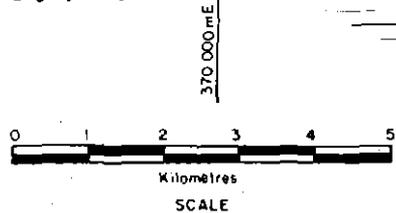


FIGURE 3



PROJECT: EL 11/85 YOLANDE JV

REGIONAL GEOLOGY

Compiled: I McD Date: 12-12-85 PLAN No: A4-519-0002

Drawn: R J R Scale:

The Central and Western Sequences have been cut by the North and South Henty Faults, north and northwest trending splays of the Henty Fault which is located 2 kilometers north of the licence. This structure has been recently shown to be control on Cambro-Ordovician sedimentation and mineralization.

The North and South Henty Faults are of prime importance when considering the geology and prospectivity of the northern section of the licence. The two diverging faults are consistently associated with alteration and emplace a wedge of younger Cambrian flysch sediments and andesitic volcanics within the Central and Western Sequences.

These younger sediments and volcanics, the Henty River Sequence have been correlated by Corbett with Dundas Group shales and basic to intermediate volcanics which are associated with massive sulfide orebodies at Que River and Hellyer 50 kilometers to the north.

Slithers of ultramafic have been emplaced within the North Henty Fault zone at Newton Creek, the ultramafics have been variably serpentized, silicified and carbonate altered. Further south the ultramafics are associated with gabbroic intrusives.

Parts of the Junee and Eldon Groups, a sedimentary succession of siliceous conglomerate, sandstone, limestone and shale overlie the volcanics, ranging in age from late Cambrian to Devonian. Occurrences are confined to the southwest at Sister's Hills and south of the Pearl Creek Fault near Queenstown. The basal Owen Conglomerate forms the prominent West Coast Range immediately east of the licence.

Cambrian lithologies are predominantly steep dipping and foliated and locally schistose in proximity to regional structures. Junee and Eldon Group sediments are characterized by more open folding and minimal foliation.

Extensive pleistocene glacial deposits obscure Cambrian bedrock in the north of the licence. These deposits have been primarily

derived from the Owen Conglomerate and are usually fluvial deposits but moraines do occur at Basin Lake.

There is no record of mineral production from the area but small prospects are scattered throughout the licence (Figure 2). Two styles of mineralization can be recognized; copper, lead, zinc, gold, silver and barium in the volcanics and gold in quartz veining hosted by Ordovician to Devonian sediments. Minor alluvial gold occurrences are recorded in the Lake Margaret district.

WORK CONDUCTED BY CYPRUS

All exploration work on EL 11/85 during the 12 months to June 1988 was carried out by Cyprus Gold and included:

- . Assessment of the alteration zones associated with the Henty Fault splays at Newton Creek
- . Stream sediment and reconnaissance geology on the southern extent of the Henty River Sequence and volcanics at Lynchford
- . Rockchip sampling of the Macquarie Woody Hill workings
- . Review of Mount Lyell's IP and geochemical data on the East Tyndall grid
- . Rockchip sampling of the alteration zone exposed in Howard's Road at the 8.2 kilometer mark

- . Visit to the Henty Canal alteration zone with consultant Dr Ross Large.

Work entailed:

- . Fifteen kilometers of grid line cutting at Newton Creek
- . Collection of 515 B/C horizon soils by hand auger and Wacker drill
- . Collection of 118 rockchip samples
- . Collection of 34 stream sediments, 34 panned concentrates and 4 bulk sediments for cyanide leach
- . Geological mapping
- . All samples were assayed for copper, lead, zinc, arsenic and gold. Some samples were also assayed for silver and barium and a suite of 37 ultramafic samples was assayed for platinoids.

Locations of the above prospects are shown on Figure 3.

NEWTON CREEK.....

Newton Creek is located in the northeast sector of EL 11/85, approximately 3 kilometers south of RGC's Henty gold prospect. The grid encompassing parts of the Mt Lyell East and West Tyndall grids. The area is accessed by the all weather Howard's and Anthony Roads which have recently been developed by the Hydro Electric Commission; the first stages of the dam development in this area are due for completion this year.

Exploration aimed at locating gold and massive sulfides continued over the alteration zones associated with the North and South

Henty Faults with gridding infill, bedrock geochemistry, stream geochemistry and geological mapping.

Geology

The Newton Creek grid covers the northern extent of the Henty Fault splays in EL 11/85 (Enclosure 1). Geology is dominated by rhyolitic to andesitic volcanics and a fault emplaced wedge of younger flysch sediment with minor andesitic volcanics. Slithers of ultramafics have been emplaced in the North Henty Fault.

Alteration is primarily associated with the South Henty Fault and has been mapped over a distance of 4.5 kilometers. The alteration mineral assemblage includes pyrite, sericite and carbonate. Narrow veins of quartz, carbonate and sulfides are frequently associated with the alteration, samples of these are barely anomalous in gold.

Gridding

Fifteen kilometers of lines have been cut, most of this in steep rainforest covered country of the Henty River valley. A grid line spacing of 400 meters has been established over the Henty Fault Zones between Lines 12 and 33N. Lines are accessed from Howard's Road and a base line along the trace of the South Henty Fault from the canal at Line 33 to 12N.

B/C Horizon Soil Geochemistry

A total of 515 samples were collected by hand auger and the Wacker drill on Lines 12 to 33N. In the northern sector of the grid sampling was continuous between the fault splays, further south where the faults diverge there is an unsampled gap. This gap has been effectively covered by Getty Oil on their Halls Rivulet grid, Lines 12 to 20N (McNaught 1984).

All samples were analyzed for copper, lead, zinc, silver, arsenic, gold and barium. The maximum levels for each element

are 2700 ppm copper, 855 ppm lead, 1300 ppm zinc, 2 ppm silver, 1200 ppm arsenic, 0.22 ppm gold and 5240 ppm barium.

Soils are predominantly residual and less than 1 meter deep with the exception of the eastern ends of Line 24 to 32N where there is extensive boulder fluvioglacial cover. Wacker sampling was attempted in these glacials but was abandoned after sampling the first line (32N).

Data are presented as profiles with geological sections for each line on Enclosures 3 to 14. Analytical result sheets and sample records are included in Appendix 2b.

Only minor anomalous base metals were located and these probably reflect lithologies, mainly graphitic shales, andesites and ultramafics. Anomalous gold is restricted to carbonate altered ultramafics in the North Henty Fault Zone.

Gold

Thirty samples assayed >0.005 ppm, 18 of these from the altered ultramafics on Line 14N, the maximum value being 0.22 ppm.

Values ranging between 0.01 and 0.025 ppm are associated with shales west of the South Henty Fault on Line 30N. These are barely anomalous and are not associated with anomalism in other elements.

Copper, Zinc

Anomalous levels up to 2700 ppm copper and 380 ppm zinc are associated with carbonate altered ultramafics and chloritic shales on Line 16N at 1350E and on Line 14N at 337E.

Andesitic lavas and shales of the Henty River Sequence on Line 28N between 1300-1400E are associated with elevated 405 ppm copper, 125 ppm lead and 765 ppm zinc.

Lead, Zinc

Several anomalous areas are interpreted to reflect lithologies rather than mineralization:

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Line 16N: 2600-2950E andesitic volcanics, 190 ppm lead, 915 ppm zinc; Line 22N: 1850-2200E rhyolitic crystal tuff, 200 ppm lead, 500 ppm zinc; Line 24N: 2400-2700E graphitic shales and carbonates, 250 ppm lead and 820 ppm zinc.

Lines 32N and 33N; eastern end of lines in proximity to the South Henty Fault, Canal Fault, graphitic shales, andesitic volcanics and Tyndall Group contact. Values are elevated throughout, peaking at Line 33N at 3375E, 855 ppm lead and 1300 ppm zinc.

Rock Geochemistry

Samples are predominantly from the South Henty Fault extending from 500 meters north of the tenement to Line 12N and a chip sample traverse along the Henty Canal near Line 32N. The balance of samples are from mineralization located in the course of grid and reconnaissance mapping.

A total of 115 samples of alteration, veining and mineralization were analyzed for copper, lead, zinc, silver, gold and barium. Best assays were 0.145 ppm gold, 0.34% copper, 1.87% lead and 2.44% zinc.

Data is presented on the 1:5000 sections (Enclosures 3 to 14) and on the 1:10000 maps (Enclosures 1 and 2) and as Appendix 2a.

Only 16 samples assayed >0.005 ppm gold, the highest 0.145 ppm gold sample (217474) from a narrow pyrite chlorite lens 500 meters north of the tenement on the Henty Canal. The maximum value from within EL 11/85 was 0.55 ppm (sample 217304), a quartz sulfide rich vein (1.87% lead, 2.44% zinc) in the South Henty Fault between Lines 26 and 28N.

Anomalous copper occurs in carbonate chlorite sulfide breccia veins <0.3 meters wide (sample 217255), 0.34% copper on Line 26N at 1050E.

Shales within the Henty River Sequence and Central Volcanics frequently have lead, zinc values in the order of 500 to 1000

ppm. The best assay was from a shale in proximity to an andesite lava on Line 28N at 1350E (sample 217451), 0.21% lead, 0.63% zinc.

Platinoids in Rock and Wacker Samples

Thirty-seven samples of altered ultramafics in the North Henty Fault Zone were analyzed for platinum group elements and gold. The maximum values were 14 ppb ruthenium and 9 ppb platinum (Appendix 2c).

Stream Geochemistry

A total of 11 sites have been sampled in streams draining the South Henty Fault between Lines 24N and 33N. Both panned concentrates and -80 mesh sediments have been taken at all sites, bulk sediments for cyanide leach were collected at the confluence of major drainages (Enclosure 1).

Maximum values from -80 mesh sampling were 35 ppm copper, 160 ppm lead, 95 ppm zinc and 150 ppm arsenic. All gold assays were <0.005 ppm (Appendix 2d).

Panned concentrates were visually checked for gold in the field but not assayed. Only minor heavy minerals were detected, 2 fine gold colors at four of the sites.

ZEEHAN ROAD-HENTY RIVER SEQUENCE.....

This area is one of the most inaccessible parts of the tenement, located west of the Henty River and north of the Zeehan Road. Access is gained via Line 16N on Mount Lyell's Henty River grid and then lines of EZ's Henty grid; alternatively an overgrown logging track from the highway at Ewart Creek can be used for foot access only.

Exploration involved stream geochemistry and reconnaissance geology to test the area's potential for volcanogenic massive

sulfides. The Mines Department has correlated volcanics in this area with those at Que River and Hellyer.

Geology

The area has previously been interpreted to be covered with extensive glacial, however it was found these are confined to the lower levels of the Henty valley.

All lithologies are Cambrian Age and comprise a north-south striking and steeply dipping sequence of basic to intermediate volcanics and volcanoclastics. These volcanics have been intruded by a large gabbroic body; minor contact hornfelsing was noted (Enclosure 2).

No evidence of alteration and mineralization was located in the volcanics.

Stream Geochemistry

Cyprus's sampling is a westward continuation of EZ's work at their Henty River grid. Thirteen sites were sampled with -80 mesh sediments and panned concentrates. Data are presented in Appendix 2f and on Enclosure 2.

Background for stream sediments is comparable with EZ's data, <50 ppm copper and lead, <224 ppm zinc and <0.008 ppm gold.

Weakly anomalous 0.015 to 0.025 ppm gold associated with elevated 80 ppm lead and 255 ppm zinc has been located in streams in the west of the area which drain basic volcanics.

Panned concentrates were only visually assessed in the field; heavy minerals included chromite and hematite fragments.

LYNCHFORD.....

Access to the area is via the sealed Lynchford Road south of Queenstown then the all weather Huxley track which passes through the area.

A seven kilometer area of Cambrian volcanics in the southeast corner of the licence area has been assessed for gold and base metals by stream sediment and panned concentrate sampling.

Geology

The area has been recently mapped by the Mines Department (Lyell 1:50000 sheet). The Department proposes to drill a stratigraphic hole to test the pre-volcanic basement; the hole's location is at AMG 5336300N:380700E on the Huxley track just west of Miners Ridge, a few hundred meters outside EL 11/85.

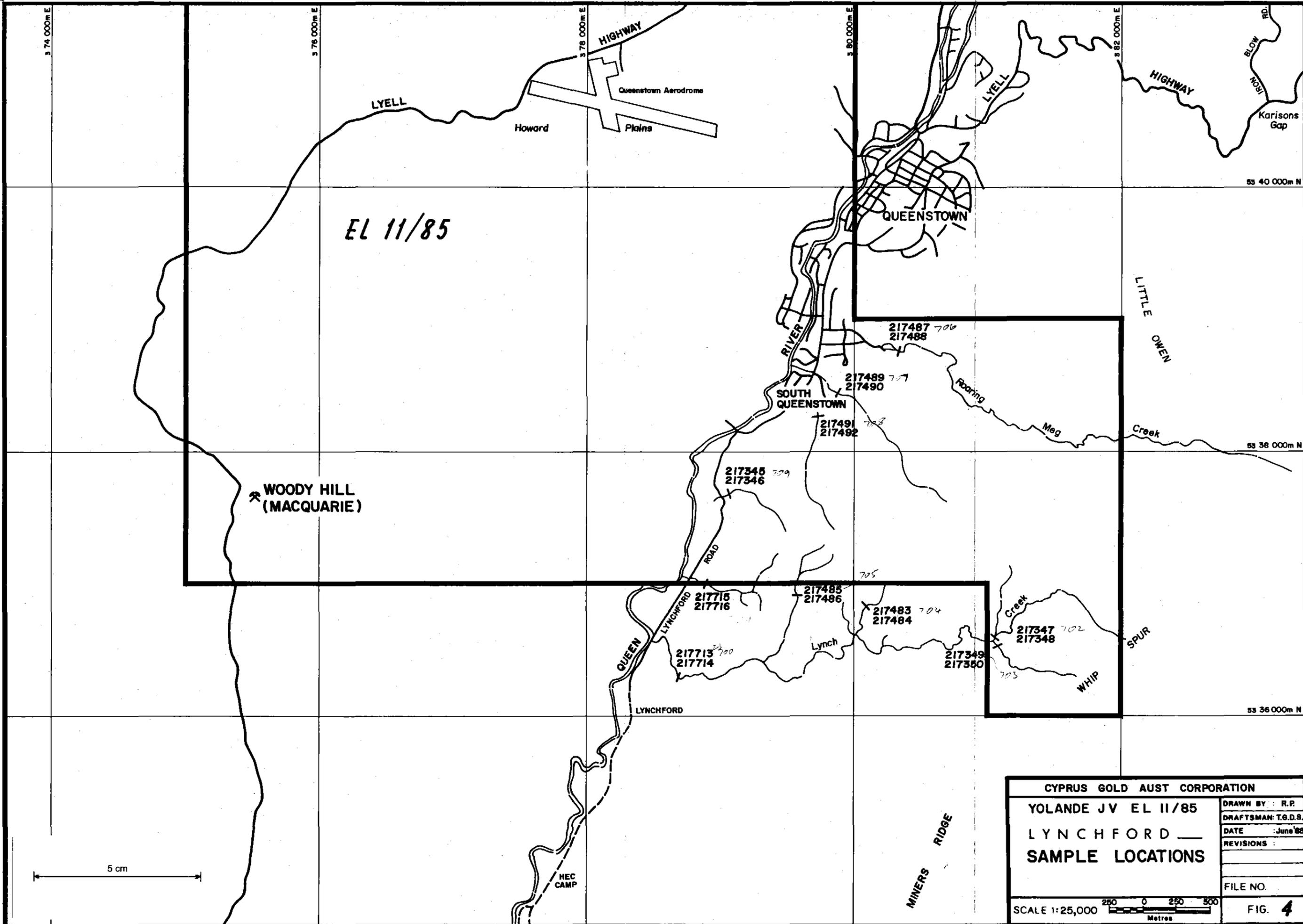
The Cambrian sequence comprises vitric tuffs, siltstones, sandstones and andesitic agglomerates. These have been intruded by Cambrian quartz feldspar porphyries. Volcanics are overlain to the west by Ordovician limestones, the Queen River following the strike of this lithology.

The area has been prospected in the past for base metals and gold; evidence of minor alluvial workings were seen in Lynch Creek. The King River gold mine, a quartz reef in andesitic volcanics is located 700 meters south of the tenement.

Stream Geochemistry

Ten sites were sampled with -80 mesh sediments and panned concentrates (Figure 4, Appendix 2g). Concentrates were visually assessed for heavy minerals in the field and not analyzed.

Best values in sediments were from streams draining andesitic volcanics, 255 ppm copper, 280 ppm lead, 210 ppm zinc and 0.025 ppm gold. Base metals in this sample may have been contaminated



5 cm

CYPRUS GOLD AUST CORPORATION	
YOLANDE JV EL 11/85	
LYNCHFORD —	
SAMPLE LOCATIONS	
DRAWN BY : R.P.	DRAFTSMAN: T.G.D.S.
DATE : June '88	REVISIONS :
FILE NO.	FIG. 4

SCALE 1:25,000

250 0 250 500 Metres

by metal rubbish in the stream. Other gold registrations between 0.01 ppm and 0.02 ppm were from the same area.

Up to 10 grains of gold were seen in concentrates in the tenement area, a stream draining the King River mine area south of the EL 11/85 contained 42 grains of gold. Only minor amounts of other heavy minerals were seen, mainly specular hematite and epidote.

EAST TYNDALL GRID - COINCIDENT LEAD SOIL AND IP ANOMALIES.....

A literature search was made of the Mt Lyell East Tyndall grid data to locate coincident lead soil and IP anomalies that had not been followed up conclusively.

Newnham 1968 reports anomalies at:

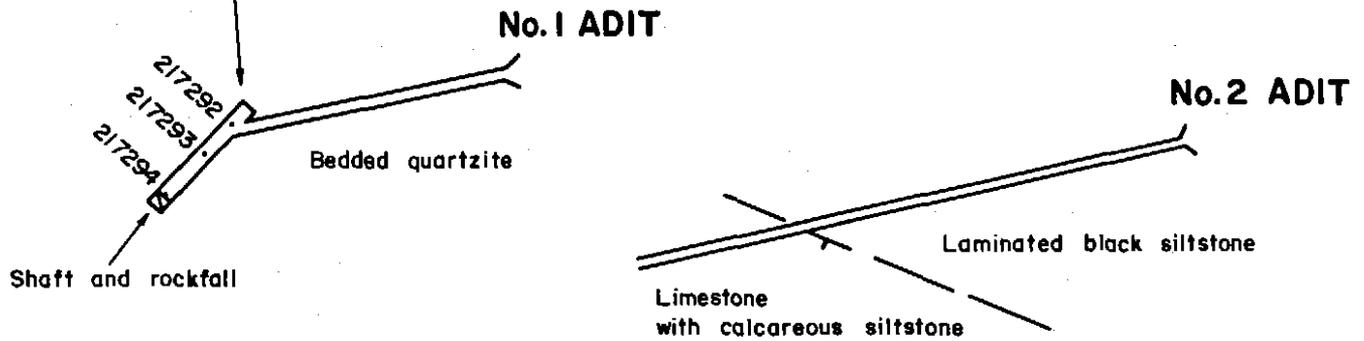
- . Lines 20N and 22N at 1000 to 2000W, this became Howard's Anomaly lying east of EL 11/85
- . Line 10N at 2500 to 3500W, this anomaly lies within the tenement.

A field traverse was made in this area. Geology consists of andesitic volcanics near their contact with Western Sequence Epiclastics; only minor pyrite in andesites was located.

MACQUARIE WOODY HILL GOLD MINE.....

This old prospect is located in the southwest corner of the tenement beside the Strahan Road (Figure 5). Mineralization consists of an irregular quartz vein system in Ordovician to Devonian aged quartzite, shale and limestone. Only the upper adit was accessible and three channel samples across the quartz limonite vein were collected assaying between 0.02 and 0.105 ppm gold with low arsenic and base metals (Figure 5, Appendix 2h).

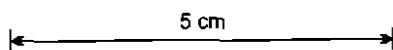
Irregular quartz vein 1-1.5m wide in shear zone



NOTE Difference in elevation between No. 1 and No. 2 is 30metres

ROCK CHIP GEOCHEMISTRY

	Cu	Pb	Zn	Ag	As	Au	Ba
217292	10	30	36	<0.5	150	0.095	210
217293	6	20	85	<0.5	150	0.02	277
217294	15	25	40	<0.5	120	0.105	157



CYPRUS GOLD AUST. CORPORATION	
YOLANDE JV EL 11/85 WOODY HILL (MACQUARIE)	
SAMPLE LOCATIONS AND RESULTS	
SCALE 1:1000	
FILE NO.	FIG. 5
DRAWN BY : R.P. DRAFTSMAN: T.G.D.S. DATE : REVISIONS : June 88	

According to old reports this adit returned the best gold grades, a three ton sample assaying 0.5 ounces of gold.

ALTERATION ZONE ON HOWARD'S ROAD AT THE 8.2 KILOMETER MARK.....

A pyritic alteration zone has been exposed in a road cutting 3 kilometers north of Basin Lake and 300 meters east of the tenement boundary, the zone appears to strike northeast into EL 11/85.

Fourteen continuous chip samples were collected at 5 meter intervals, these were pulped then splits combined into three samples, then assayed for copper, lead, zinc, silver, arsenic and gold (Appendix 2e). Copper, lead and zinc ranged in value up to 100, 225 and 720 ppm respectively. Silver, gold and arsenic were not anomalous.

043

EXPLORATION POTENTIAL

It is considered potential exists for volcanogenic massive sulfides and structurally controlled gold-silver mineralization within the Yolande EL 11/85.

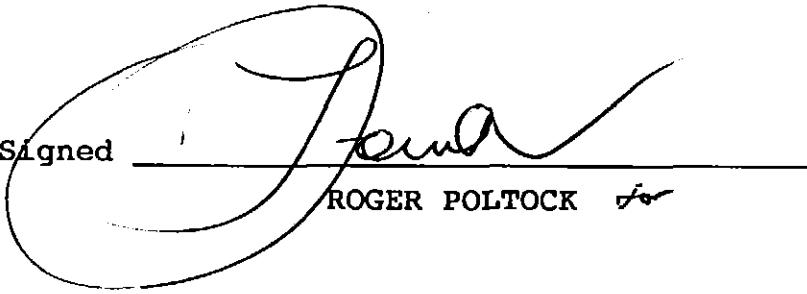
The northeast part of the tenement in the vicinity of the alteration zones associated with the North and South Henty Faults are considered to be highly prospective for both styles of mineralization.

EXPLORATION PROPOSAL

The exploration program envisaged for next season will involve:

- . Infill gridding, mapping, rock/soil geochemistry and electrical geophysics in the northeast 1 square kilometer corner of EL 11/85 at Newton Creek between Lines 30 and 34N.
- . Stream mapping and rock geochemistry over andesites and shales of the Henty River Sequence between Lines 22 and 30N
- . Rock geochemistry on ultramafics in the North Henty Fault Zone on Line 14N for gold
- . Follow-up gold stream sediment anomalies in the southwest part of the Henty River Sequence

- Assess Cambrian porphyries in the Davies Hill-Zeehan Road area for gold mineralization with rock and stream geochemistry.

Signed  _____
ROGER POLTOCK *for*

REFERENCES

K D Corbett and T C Lees

Stratigraphic and Structural Relationships and
Evidence for Cambrian Deformation at the Western
Margin of the Mt Read Volcanics, Tasmania.
Australian Journal of Earth Sciences (1987) 34

Little River Goldfields NL

Quarterly Report - March 1988, Henty Prospect,
Australian Stock Exchange

CYPRUS GOLD AUSTRALIA CORPORATION

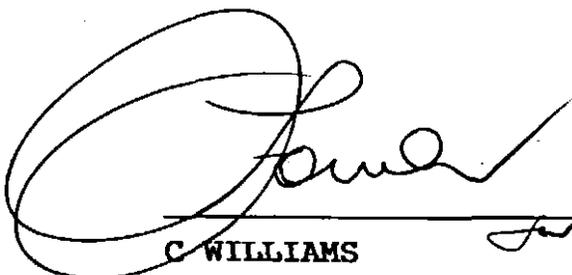
EXPENDITURE FOR THE PERIOD JULY 1, 1987 TO JUNE 30, 1988

YOLANDE EXPLORATION LICENCE 11/85

	\$
Salaries and Wages	4,354.02
Benefits	648.91
Drafting	3,101.13
Cookery	503.10
Freight	412.85
Travel	2,569.37
Field Office Rent ST	357.02
Field Supplies - General	301.98
Communications	328.59
Geophysics	175.00
Consultants	2,700.00
Other Contractors	31,957.00
Contract - Geological	18,850.50
Assays	22,653.93
Equipment Operation and Maintenance	807.02
Equipment Rental	862.20

	90,582.62
Overhead at 10%	9,058.26

Total	\$99,640.88
	=====



C WILLIAMS
MANAGER - ACCOUNTING

APPENDICES

APPENDIX 1

PYRITE ALTERATION ZONE ALONG HENTY FAULT
EL 11/85: COMMENTS
by Dr Ross Large

University of Tasmania

Sandy Bay Campus
Churchill Avenue
Sandy Bay Hobart
Correspondence
GPO Box 2520
Hobart Tasmania 7001
Australia
Telephone (002) 20210
Telex AA 58150
Facsimile (002) 202186



Mr Chris Torey
Cyprus Minerals
3 Glenlea Drive
Maroochydore, QLD. 4558

Dear Chris,

With regard to my visit to Elliott Bay and the Henty Fault area in February, please find enclosed an invoice for two days consulting.

I have delayed sending this invoice, and my comments on your Henty Fault area, because I was waiting for the geological map from Roger Poltock. However the map has not arrived so I include some brief comments below;

Comments on pyrite alteration zone along Henty Fault EL 11/85

1. Inspection of the Mines Department 1 : 25,000 geological map suggests that the HEC Canal pyrite zone is located within Tyndal group rhyolitic volcanics at the contact with the Central Volcanic Complex. This pyrite zone is probably on strike from pyritic mineralisation and associated base metals plus silver at the Howards Anomaly and Tyndal Mine (see attached Figure). The gold mineralisation of the Goldfields Henty Prospect lies a further 3 km north along strike, probably on the same stratigraphic horizon.
2. A major unresolved problem relates to the style and age of gold mineralisation at the Henty prospect. The occurrence of gold-bearing massive sulphide lenses associated with the disseminated pyrite-gold zone strongly suggests Cambrian-aged gold mineralisation. The position of the Henty Fault adjacent to the deposit may be coincidental and unrelated to the mineralising event. The fault may have been deflected along the Tyndal Group - Central Sequence contact where previous Cambrian stratiform or stratabound gold-basemetal mineralisation was concentrated. Lead isotope studies on the Henty Fault prospect certainly support a Cambrian age for the mineralisation.
3. Based on this geological interpretation the Canal pyrite zone has good potential for gold mineralisation similar to the Henty Prospect.

4. The lack of anomalous gold or base metal mineralisation from the current rock chip sampling is disturbing. If there is any gold in the system, it is probably associated with the best zone of sulphide accumulation. On this basis it is suggested that electrical geophysical techniques (EM and IP) should be carried out over the zone to define targets for drilling.
5. Sulphur isotope and lead isotope studies are also recommended in order to compare the isotope signature of this prospect to that recorded at the Henty Prospect and other gold zones in the Mt Read Volcanics. A favourable isotopic signature may give you confidence to continue exploration on the prospect.
6. Structural studies are also suggested to relate this pyrite zone to the position of regional faults (Henty Fault Zone and the Great Lyell Fault) and the direction of shear along these faults. As stated before, I am unconvinced that this pyrite zone is related to the Henty Fault Zone, but may have a stratigraphic control along the contact of the Tyndal Group and Central Volcanic Complex. Dr. Ron Berry who has considerable experience mapping along the Henty Fault in the Stirling Valley - Tullah area could provide valuable structural advice on a consulting basis, and assist to resolve these problems.

I hope these brief notes provide some stimulus to continue exploration in the area, as I feel that the prospect holds considerable potential. I would be very pleased to hear about future developments and be happy to undertake further work in the area if required.

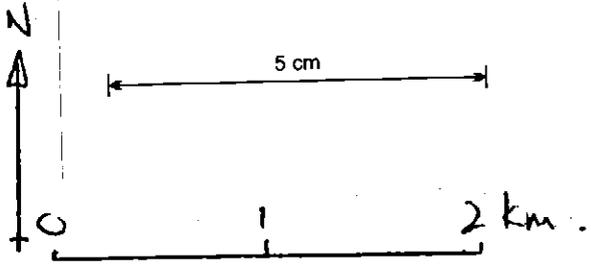
Yours sincerely



Ross R. Large

052

759053



380000 E

DUNDAS GROUP

HENTY AN PROSPECT

HARRIS REWARD Pb-Zn

CENTRAL VOLCANIC COMPLEX

zone of pyrite alteration
NEC canal

OWEN CONGLOMERATE

S360000 MN

TYNDAL GROUP

SEDIMENTS

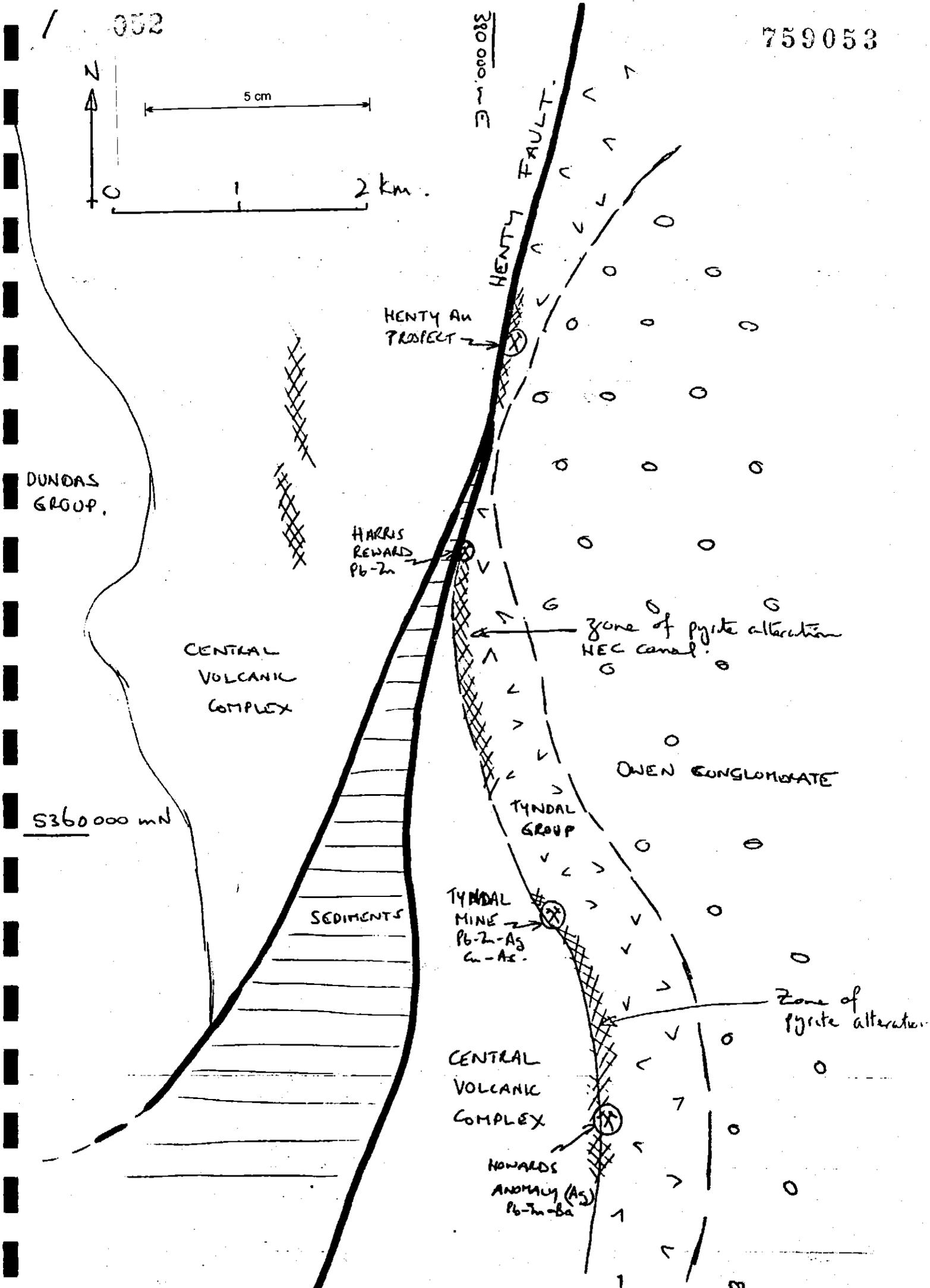
TYNDAL MINE
Pb-Zn-As
Cu-As

Zone of pyrite alteration

CENTRAL VOLCANIC COMPLEX

HOWARDS ANOMALY (AS)
Pb-Zn-Cu

HENTY FAULT





APPENDIX 2

ANALYTICAL RESULT SHEETS AND SAMPLE
RECORDS

2a Newton Creek - Rock Geochemistry

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 11/85 YOLANDE TMS
 PROSPECT NEWTON CREEK GRID

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALABS COOL
 SAMPLE TYPE ROCKS

COLLECTED BY: R Pollock
 DATE DISPATCHED
 DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Ca	Pb	Zn	Ag	As	Au	Ba
217259		26N 167SE	Volc highly fractured brecciated fine py	10	<5	40	<0.5	1	<0.005	184
217260		26N 8th	Volc - clastic: cream - grey carbonates sericite alk with minor py	5	<5	50	<0.5	5	<0.005	90
		Henry Fault trace on CK NN of line								
217261		22N 203E	Volc - clastic? cream, fine grained, foliated sericitized	5	<5	35	<0.5	1	<0.005	1220
217262		57A00E/5358 ⁴⁰ N Spillway Newka down	Qty limonite veins with sericitized wall rock	10	5	15	1.5	4	<0.005	52
217263		22N 2400E	Volc or intrusive? andesite fold hb porphy							
217264		22N 200SE	Chlorite fold at lithic buff - internal comp							
217265		22N 182SE	Chip sample chl at lithic buff - siltstone. South Henry fault zone	10	<5	95	1.0	8	<0.005	189
217266		22N 1790E	Siltst, dk grey, pink on joints	10	5	165	1.0	20	<0.005	189
217267		22N 167SE	Tuffaceous siltst, gtz chl limonite veins	60	5	105	1.5	12	0.02	118
217268		22N 167SE	Siltst/gtz with possible carbonate lenses very fine dissemin py	35	<5	60	2.0	10	<0.005	220
217269		22N 1610E	Qty chl py breccia <0.2m wide in pink siltst fine grained basic	2000	<5	65	1.0	2	<0.005	160
217270	EAST BANK HENRY R	22N	Siltst with gtz chl py ccp vein in foliation plane	870	<5	40	1.0	3	<0.005	211
217271	EAST BANK HENRY R	22N 1575-1580E	Tuffaceous carb py sericite alk.	55	15	120	1.5	6	0.005	221

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT RL 1185 TOUANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALABS COOE
 SAMPLE TYPE Rock

COLLECTED BY R. Poltock
 DATE DISPATCHED:
 DATE RECEIVED:

A 2835

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES						
			Cu	Pb	Zn	Ag	As	Au	Ba
217272	22N 1500E	pink hematitic siltst with carbonate veinlets	20	<5	85	1.5	<1	<0.005	428
217273	West bank of Henry R Basal line SW of Fault 60530.N	Foliated volcanic, fine-med grnd, pyritic	30	56	1850	1.0	51	<0.005	676
217274	Basal line SW of Henry Fault 60350.N	Volc - volcanoclastic - green, hematitic	5	20	220	<0.5	12	<0.005	663
217275	Newton Creek North end area line to 20N 379850E 5358200N	Volc, carbonate/siderite alteration of felds + qb hematite / carbonate veins	15	<5	60	1.5	18	<0.005	1060
217276	20N 2275E	Volc - clastic fine-med grnd, bedded minor pyrrhotite.	30	10	80	1.0	26	<0.005	732
217277	20N 1900E	Siltst - vitric tuff - xt tuff, pyrite dissem on joint faces	30	885	1000	2.0	66	<0.005	4916
217278	20N 1800E	Volc - carbonate siltst with minor pyrite.	10	<5	40	0.5	6	<0.005	213
217279	SW Henry Fault zone, north of Newton Creek near 20N	Sheared fine grnd siltst, qb carbonate veinlet	10	<5	25	0.5	6	<0.005	200
217280	Newton Creek 5357950N	379220E, Vitric tuff - fine volc clastics minor py - hematite.	10	<5	15	0.5	<1	<0.005	307
217281	West bank of Henry R	20N 1700E Black siltstone, some carbonate lenses, minor pyrite, carbonate veins	10	<5	25	1.0	5	<0.005	256
217282	20N 1425E	Basic volc, qb phenos or amygdulose							

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: R. Poltock

PROJECT EL 11/85 YOLANDE

LABORATORY ANALYSIS

DATE DISPATCHED:

PROSPECT NEWTON CREEK HENTY CANAL

SAMPLE TYPE Rock

DATE RECEIVED:

A 28008

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Cu	Pb	Zn	Ag	As	Au	Ba	
217042	LINE 33N	CH 2060	Volc, massive, felds phric, grey-green	10	<5	150	<0.5	4	<0.005	792	
217043	"	CH 2040	Volc " " "	15	<5	135	<0.5	2	<0.005	855	
217044	"	CH 2020	Volc fragment to 10 cm, localized when minor py	10	160	125	<0.5	17	<0.005	323	
217045	"	CH 2000	Volc - ignimbrite? cream-green	5	<5	105	<0.5	1	<0.005	562	
217046	"	CH 1990	Volc - pink frags, cream-pink, altered with flat lying qtz veins	10	<5	35	<0.5	1	<0.005	206	
216499	"	CH 1980	Volc, cream with pink frags qtz vein assoc white clayey alt	10	120	160	<0.5	6	<0.005	343	
216500	"	CH 1960	Volc, grey-green, chloritized alkies, white clay alt associated with qtz vein	15	45	185	<0.5	4	<0.005	403	
216647	"	CH 1950	Volc, cream, sericitized, qtz veined	10	<5	80	<0.5	1	<0.005	621	
216648	"	CH 1940	Volc, fine-med gr'd, cream	5	<5	115	<0.5	1	<0.005	1540	159061
216649	"	CH 1920	Volc " " " sericitized	20	<5	220	<0.5	1	<0.005	587	159061

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 11/85 YOLANDE
 PROSPECT NEWTON CRSEK HENTY CANAL

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALABS
 SAMPLE TYPE Rock

COLLECTED BY: R. Pollock
 DATE DISPATCHED:
 DATE RECEIVED:

A 28308

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES							
			Cu	Pb	Zn	Ag	As	Au	Ba	
✓ 216672	LINE 33N	CH 1900 Volc, cream - pink, f-med grnd	5	<S	140	<0.5	1	<0.005	815	
✓ 216673	"	CH 1880 Volc f-med grnd, localized bleaching & silicification in prox' to qtz chl veinup	10	<S	120	<0.5	2	<0.005	900	
✓ 216674	"	CH 1860 Volc, abundant fine angular lithics bleaching in prox' to fault.	10	<S	55	<0.5	1	<0.005	831	
✓ 216675	"	CH 1840 Volc, f-med grnd, fault zone with clay gouge & localized silicification	10	<S	100	<0.5	2	<0.005	909	
✓ 216676	"	302SE Volc, grey-green, fine-med grnd carbonate chlorite veinup	5	<S	115	<0.5	2	<0.005	802	
✓ 216677	"	3010E Volc, grey-white, fault zone, abundant fine pyrite, sericite alb	20	90	70	1.0	23	<0.005	639	
✓ 216678	"	3000E Volc, grey, fine-med grnd sericite pyrite alteration	30	770	295	1.5	23	<0.005	797	
217326	LINE 30N/350E	CH 2880E Rhyolite lava silicified + pyrite veinlets	15	15	15	1.0	7	<0.005	695	
217327	"	" " pink + fluorite pyrite jointing	10	<S	20	1.0	<1	<0.005	950	
217328	midway between Eastern ends of line 26-28N	Cryst lithic typ sericitized pyrite/chl	15	30	50	1.0	6	<0.005	532	159062
217329	midway between Eastern ends of line 28-30N	" " chloritic	40	305	395	1.0	5	<0.005	559	159062
217330	Canal 350m East of E-W boundary	Volcanic shelled sericite/chl + hematitic cherty lenses, minor pyrite	145	30	175	1.5	22	<0.005	825	159062

082

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS AUSTR.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT EL 11/85 YOLANDE

LABORATORY ANALABS

DATE DISPATCHED:

PROSPECT NEWTON CK Sth HEAVY FAULT

SAMPLE TYPE Rock

DATE RECEIVED:

A 28306

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES							
			Ca	Pb	Zn	Ag	As	Au	Ba	
217295	"	6027SN Felsitic volc, sericitic	30	200	270	1.0	28	0.005	422	
217296	"	6022SN " " carbonat / sericit. alkali	15	10	380	<0.5	15	0.010	413	
217297	"	5985SN Tuffaceous gbk, carb alkali, minor py	10	25	190	<0.5	28	<0.005	160	
217298	"	59800SN Vitric tuff, pink-cream	5	<5	55	0.5	7	<0.005	937	
217299	20m up creek N E of BL	5978SN Volcanic, shockwork of py veinlets	10	195	245	<0.5	27	<0.005	1130	
217300	"	5962SN Volc/diabase, abundant pink lithes or felds patches of fine grained py	5	5	65	<0.5	11	<0.005	955	
217301		5959SN Fault breccia, graphitic shale and carb alk volcanic, minor pyrite	10	45	370	<0.5	19	<0.005	670	
217302		5957SN Volc grey, sericitic alkali, $\leq 10\%$ py 5-10m wide // ck in shear zone	15	175	900	<0.5	1300	0.030	1230	
217303		5957SN 5m E of ck. Volc with py shockwork	5	120	135	0.5	740	0.045	3720	1200000
217304		5955SN Volc sericitized ≈ 10 cm wide	155	1.87%	2.44%	17	120	0.055	602	1200000
217305	50m up creek from	5922SN Rhyolite volc, qtz phytic, foliated with minor pyrite calcite veins	5	25	80	<0.5	28	<0.005	1120	1200000

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL11/85 YOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALABS
 SAMPLE TYPE Rock

COLLECTED BY: R. Poltock
 DATE DISPATCHED:
 DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Ca	Pb	Zn	Ag	As	Au	Ba
217451	378,880E	5359 775N	Black siltst pyritic	190	2050	6300	2.0	48	0.020	559
217452	378 810E	5359 720N	Micro gabbro dyke <20m wide pyritic	85	85	145	0.5	9	<0.005	179
217456	378800E	5359 700N	Grey pyritic siltstone with py+ calcite veins	55	80	165	0.5	29	<0.005	273
217457	378800E	5359 550N	Dolomitized serpyritic + siltstone with alb py chl veins	65	25	120	<0.5	8	<0.005	262
217471	Hardy Canal	CH 1640	Schafied volcanic, qb py vein	25	55	50	<0.5	22	<0.005	202
217472	"	CH 1620	Qb limonite veins in schafied and pyritic volc	20	50	20	3.5	27	0.07	456
217473	"	CH 850	Volc cream-pink, carbonate/ barite veinlets	<5	10	40	0.5	5	<0.005	58
217474	"	CH 900	Pyritic lenses in chloritic fine grained volc	440	180	255	1.0	600	0.145	501
217475	"	CH 980	Volc carbonate altw with chalcopyr blebs	2050	10	75	0.5	13	<0.005	89
217476		CH 960-970	Chl vein, chalcopyr/py decem, blebs - joint faces	2400	<5	95	1.0	5	<0.005	137

759065

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS

PROJECT EL W/BS YOLANDE

SUSPECT HENTY FAULT - NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY ANALABS LouEE

SAMPLE TYPE Rock.

COLLECTED BY: R. Pollock

DATE DISPATCHED: 13-7-87.

DATE RECEIVED:

A 28X

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES										
			Cu	Pb	Zn	Ag	Ni	Cr	Mn	Co	W	Ba	Au
216475	33N	2975-2981E chip sample canal met. gal. v. calc. pyritic	30	145	185	2.0	15	15	90	20	<10	1300	<0.005
216476	33N	2981-2987SE " " " " pyritic, minor galena	40	130	185	6.0	10	10	115	15	<10	1420	<0.005
216477	33N	2987S-2992S chip sample canal pyritic v. calc. qb veins	30	205	105	1.5	15	15	65	10	<10	895	<0.005
216478	33N	2970-2975E " " " " qb veins, minor py	20	105	245	<0.5	20	15	70	15	<10	796	<0.005
216479	33N	2960E " " " " pyritic v. calc. minor disse. galena	25	685	20	1.5	15	15	75	15	<10	639	<0.005
		" " " " blue 2' mineral point faces (Cu?)											

759066

007

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759068

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.04695

18/09/87

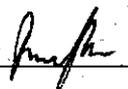
3459

1 OF 1

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba	W	
1	216639	10	1900	680	0.5	56	0.005	409	<10	
2	216640	10	75	85	<0.5	4	0.025	619	<10	
3	216641	10	55	185	<0.5	8	0.005	386	<10	
4	216642	1250	45	35	<0.5	4	0.010	670	<10	
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	0.5	1	0.005	10	10	
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
25	METHOD	101	101	101	101	114	313	401	401	

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 — = element not determined

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(09) 458 7999

A division of MacDonal Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

FAX: 004 31 8890

ANALYTICAL REPORT No. 7.5.08.04886**THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA**

ORDER No.

PROJECT

B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060

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NEWTON CR

DATE RECEIVED

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04/11/87

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GGS
LTSDATE
REPORTEDNo.
OF COPIES

TOTAL No. OF SAMPLES

23/11/87

1

70

PRE-TREATMENT

ANALYSIS

SAMPLE
NUMBERS

DRY

CRUSH

SPLIT

FIL-
VERSE

SIEVE

OTHER
SEE
REMARKS

NONE

REFER TO
ANALYSIS
SECTION

PREPARATION

METHOD

Ro Prep: 006, 010, 012, 013, 014

Cu, Pb, Zn, Ag/101, As/114

Ro

Au/313, Ba/401

REMARKS

B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060R. Pollock
Cyprus Minerals
C/- Post Office
Wilmot
Tasmania 7310

OF SAMPLES

ANALYSIS — PREPARATION

ANALYSIS — METHOD

WC

perchloric acid

A1

cold acid

CA

atomic absorption

AAS

SC

hydrochloric acid

A2

specific sulphide

SS

x-ray fluorescence

XRF

CU

nitric acid

A3

other mixed acids

Mo

spectrophotometry

SPEC

Ro

aque regia

A4

alkaline attack

AA

colorimetry

COL

SO

nitric-perchloric

A5

volatilization

VO

chromatography

CHR

FU

HF mixture

A6

ignition

IG

titration

TTN

WA

HF under pressure

A7

pressed powder (XRF)

PP

other chemical means

CHEM

II

fusion

A8

glass fusion (XRF)

GF

miscellaneous

MISC

IS

fluorescence

FLUOR

III

inductively coupled plasma

ICP

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009

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.04886

23/11/87

00313

1 OF 3

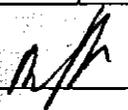
TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba		
1	216499	10	120	160	<0.5	6	<0.005	343		
2	216500	15	45	185	<0.5	4	<0.005	403		
3	216643	55	335	180	0.5	18	<0.005	345		
4	216644	20	220	60	3.0	15	0.005	632		
5	216645	30	435	1900	2.0	28	<0.005	1160		
6	216646	10	20	100	0.5	17	<0.005	474		
7	216647	10	<5	80	<0.5	1	<0.005	621		
8	216648	5	<5	115	<0.5	1	<0.005	1540		
9	216649	20	<5	220	<0.5	1	<0.005	587		
10	216672	5	<5	140	<0.5	1	<0.005	815		
11	216673	10	<5	120	<0.5	2	<0.005	900		
12	216674	10	<5	55	<0.5	1	<0.005	831		
13	216675	10	<5	100	<0.5	2	<0.005	909		
14	216676	5	<5	115	<0.5	2	<0.005	802		
15	216677	20	90	70	1.0	23	<0.005	639		
16	216678	30	770	295	1.5	23	<0.005	797		
17	216698	960	155	250	2.0	47	0.110	905		
18	216699	30	<5	85	<0.5	4	<0.005	163		
19	216700	15	5	140	<0.5	5	<0.005	180		
20	217031	90	275	230	1.0	13	<0.005	1450		
21	217032	75	5	85	<0.5	10	<0.005	1430		
22	217033	105	<5	180	<0.5	16	<0.005	1090		
23	217034	80	510	990	5.0	31	<0.005	1400		
24	217035	20	855	1300	<0.5	25	<0.005	614		
25	217036	20	255	115	<0.5	43	<0.005	1100		

Results in ppm unless otherwise specified.

T = element present; but concentration too low to measure

X = element concentration is below detection limit

- = element not determined

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.04886

23/11/87

00313

2 OF 3

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba		
1	217037	10	215	160	<0.5	8	<0.005	442		
2	217038	40	60	130	<0.5	310	<0.005	879		
3	217039	30	15	160	<0.5	66	<0.005	806		
4	217040	25	290	105	<0.5	26	<0.005	3480		
5	217041	20	5	200	<0.5	10	<0.005	1250		
6	217042	10	<5	150	<0.5	4	<0.005	792		
7	217043	15	<5	135	<0.5	2	<0.005	855		
8	217044	10	160	125	<0.5	17	<0.005	323		
9	217045	5	<5	105	<0.5	1	<0.005	562		
10	217046	10	<5	35	<0.5	1	<0.005	206		
11	217251	20	10	50	<0.5	2	<0.005	1090		
12	217252	110	10	95	<0.5	29	<0.005	218		
13	217253	20	60	390	<0.5	6	0.070	308		
14	217254	80	15	95	<0.5	51	0.010	580		
15	217255	3450	<5	50	<0.5	21	0.005	405		
16	217256	25	<5	85	<0.5	3	<0.005	202		
17	217257	15	<5	100	<0.5	7	<0.005	267		
18	217258	25	<5	75	<0.5	11	<0.005	263		
19	217259	10	<5	40	<0.5	1	<0.005	184		
20	217260	5	<5	50	<0.5	5	<0.005	90		
21	217261	5	<5	35	<0.5	1	<0.005	1220		
22	217262	10	5	15	1.5	4	<0.005	52		
23	217265	10	<5	95	1.0	8	<0.005	189		
24	217266	10	5	165	1.0	20	<0.005	189		
25	217267	60	5	105	1.5	12	0.020	118		

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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ANALYTICAL DATA

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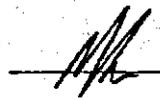
00313

3 OF 3

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba		
1	217268	35	<5	60	2.0	10	<0.005	220		
2	217269	2000	<5	65	1.0	2	<0.005	160		
3	217270	870	<5	40	1.0	3	<0.005	211		
4	217271	55	15	120	1.5	6	0.005	221		
5	217272	20	<5	85	1.5	<1	<0.005	428		
6	217275	15	<5	60	1.5	18	<0.005	1060		
7	217276	30	10	80	1.0	26	<0.005	732		
8	217277	30	885	1000	2.0	66	<0.005	486		
9	217278	10	<5	40	0.5	6	<0.005	213		
10	217279	10	<5	25	0.5	6	<0.005	200		
11	217280	10	<5	15	0.5	<1	<0.005	307		
12	217281	10	<5	25	1.0	5	<0.005	256		
13	217283	135	<5	145	1.5	3	<0.005	497		
14	217284	20	<5	90	1.5	1	<0.005	219		
15	217285	40	<5	70	1.0	11	<0.005	193		
16	217286	15	<5	20	1.0	1	<0.005	133		
17	217288	80	<5	35	<0.5	27	0.025	224		
18	217289	30	70	85	1.0	6	<0.005	375		
19	217290	25	<5	35	1.0	5	<0.005	212		
20	217291	50	445	400	1.0	55	<0.005	482		
21										
22										
23	DETECTION	5	5	5	0.5	1	0.005	10		
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM		
25	METHOD	101	101	101	101	114	313	401		

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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A division of MacDonald Hamilton & Co. Pty. Ltd.

Phone (09) 458 7999

52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

FAX: 004 31 8890

ANALYTICAL REPORT No. 7.5.08.04902

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

B. Roxburgh
 Cyprus Minerals
 P.O. Box 493
 North Sydney
 N.S.W. 2060

ORDER No.	PROJECT
DATE RECEIVED	RESULTS REQUIRED
09/11/87	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
6	23/11/87	1	63

STATE OF SAMPLE	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT							ANALYSIS			
			DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
	Various		RC Prep: 006	101,011	012,013	016					Cu, Pb, Zn, Ag/101, As/114		
	Various		RC								Ba/401, Au/313		
	Various		RC Prep: 006	101,011	012,013	016					Pb, Zn, Ag/104		

RESULTS TO

B. Roxburgh
 Cyprus Minerals
 P.O. Box 493
 North Sydney
 N.S.W. 2060

RESULTS TO

REMARKS

STATE OF SAMPLES	ANALYSIS - PREPARATION	ANALYSIS - METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock RO	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration ITN
water WA	HF under pressure A7	other chemical means CHEM
issue TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		Inductively coupled plasma ICP

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.04902

23/11/87

3 OF 6

TUBE No.	SAMPLE No.	Cu	Zn	Zn	As	Ag	Ag	Ba	Au	Pb
1	217292	10	35	-	150	<0.5	-	210	0.095	30
2	217293	5	85	-	150	<0.5	-	277	0.020	20
3	217294	15	40	-	120	<0.5	-	157	0.105	25
4	217295	30	270	-	28	1.0	-	422	0.005	200
5	217296	15	380	-	15	<0.5	-	413	0.010	10
6	217297	10	190	-	28	<0.5	-	160	<0.005	25
7	217298	5	55	-	7	0.5	-	937	<0.005	<5
8	217299	10	245	-	27	<0.5	-	1130	<0.005	195
9	217300	5	65	-	11	<0.5	-	955	<0.005	5
10	217301	10	370	-	19	<0.5	-	670	<0.005	45
11	217302	15	900	-	1300	<0.5	-	1230	0.030	175
12	217303	5	135	-	740	0.5	-	3720	0.045	120
13	217304	155	-	2.44	120	-	17	682	0.055	-
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	0.01	1	0.5	2	10	0.005	5
24	UNITS	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM
25	METHDD	101	101	104	114	101	104	401	313	101

Results in ppm unless otherwise specified

+ element present but concentration too low to measure

X element concentration is below detection limit

- element not determined

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074

ANALABS

759075

A division of MacDonald Hamilton & Co. Pty. Ltd.

Phone (09) 458 7999

52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

FAX: 004 31 8870

ANALYTICAL REPORT No. 7.5.08.04922

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.

PROJECT

B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060

00315

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No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

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3

01/12/87

1

72

STATE OF SAMPLE

PRE-TREATMENT

ANALYSIS

REFER BELOW

SAMPLE NUMBERS

DRY

CRUSH

SPLIT

PUL-VERISE

SIEVE

OTHER SEE REMARKS

NONE

REFER TO ANALYSIS SECTION

PREPARATION

METHOD

Various

PU

Cu, Pb, Zn, Ag/101, As/114

Various

PU

Sa/401, Au/313

REMARKS

RESULTS TO

B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060

RESULTS TO

STATE OF SAMPLES

ANALYSIS - PREPARATION

ANALYSIS - METHOD

whole core WC
split core SC
cutting CU
rock RO
soil SO
pulp PU
water WA
tissue TI
stream sediment SS
heavy mineral HM

perchloric acid A1
hydrochloric acid A2
nitric acid A3
aqua regia A4
nitric-perchloric A5
HF mixture A6
HF under pressure A7
fusion A8

cold acid CA
specific sulphide SS
other mixed acids MA
alkaline attack AA
volatilization VO
ignition IG
pressed powder (XRF) PP
glass fusion (XRF) GF

CA
SS
MA
AA
VO
IG
PP
GF

atomic absorption AAS
x-ray fluorescence XRF
spectrophotometry SPEC
colorimetry COL
chromatography CHR
titration TIT
other chemical means CHEM
miscellaneous MISC
fluorescence FLUOR
inductively coupled plasma ICP

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ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.04922

01/12/87

00315

1 OF 3

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba
----------	------------	----	----	----	----	----	----	----

22	217319	5	25	80	<0.5	28	<0.005	1120
23	217320	55	10	65	0.5	30	0.020	143
24	217321	5	<5	40	<0.5	3	<0.005	355
25	217322	55	<5	115	0.5	12	0.010	125

Results in ppm unless otherwise specified
 1 element present but concentration too low to measure
 * element concentration is below detection limit
 - element not determined

AUTHORISED OFFICER



073

ANALABS

A Division of Macdonald Hamilton & Co. Pty Ltd.

759077

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

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01/12/87

00315

2 OF 3

TUBE No.	SAMPLE No.		Cu	Pb	Zn	Ag	As	Au	Ba	
1	217323		290	30	85	0.5	20	0.010	76	
2	217324		5	<5	50	0.5	8	<0.005	240	
3	217325		35	40	90	1.0	8	<0.005	333	

ANALABS

759078

Phone (09) 458 7999

A division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

ANALYTICAL REPORT No. 7.5.08.04986

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

R. Pollock
Cyprus Minerals
C/- Post Office
Wilmot
Tasmania 7310

ORDER No.	PROJECT
E00321	ON 3471
DATE RECEIVED	RESULTS REQUIRED
07/12/87	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
7	08/12/87	1	25

STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS				
			DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
Various			RD	Prep: 005, 010, 011, 012, 013, 016							Cu, Pb, Zn, Ag/101, As/114		
Various			RG								Au, AuChk/313, Ba/401		
Various			SS	Prep: 005, 007, 015							Cu, Pb, Zn, Ag/101, As/114		
Various			SS								Au, AuChk/313, Ba/401		
Various			SS								Au/328		

RESULTS TO
B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2050

RESULTS TO
R. Pollock
Cyprus Minerals
C/- Post Office
Wilmot
Tasmania 7310

REMARKS

STATE OF SAMPLES	ANALYSIS	PREPARATION	ANALYSIS	METHOD
whole core	perchloric acid	A1	atomic absorption	AAS
split core	hydrochloric acid	A2	x-ray fluorescence	XRF
cutting	nitric acid	A3	spectrophotometry	SPEC
rock	aqua regia	A4	colorimetry	COL
soil	nitric-perchloric	A5	chromatography	CHR
pulp	HF mixture	A6	titration	TTN
water	HF under pressure	A7	other chemical means	CHEM
tissue	fusion	A8	miscellaneous	MISC
stream sediment			fluorescence	FLUOR
heavy mineral			inductively coupled plasma	ICP

AUTHORISED OFFICER

ANALABS

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.04986

28/12/87

E00321

1 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba	Au	Totwt
1	217451	190	2050	6300	2.0	48	0.020	559	-	-
2	217452	85	85	145	0.5	9	0.005	179	-	-
3	217456	55	80	165	0.5	29	0.005	273	-	-
4	217457	65	25	120	<0.5	8	0.005	262	-	-
5	217471	25	55	50	<0.5	22	0.005	202	-	-
6	217472	20	50	20	3.5	27	0.070	456	-	-
7	217473	<5	10	40	0.5	5	0.005	58	-	-
8	217474	440	180	255	1.0	600	0.145	501	-	-
9	217475	2050	10	75	0.5	13	0.005	89	-	-
10	217476	2400	<5	95	1.0	5	0.005	137	-	-

Results in ppm unless otherwise specified
 * element present but concentration too low to measure
 X element concentration is below detection limit
 - element not determined

AUTHORISED OFFICER



2b Newton Creek Soil - Wacker
Geochemistry

080

ROGER POLTOCK GEOLOGICAL PTY. LTD.

BELL/COONEY

CLIENT CYPRUS MINERALS
PROJECT EL 11/85 VOLANDE
PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
LABORATORY ANALABS
SAMPLE TYPE SOIL Rock chip

COLLECTED BY: POLTOCK
DATE DISPATCHED:
DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Co	Pb	Zn	Ag	As	Au	Ba	
217228	12N	3000E	Soil - 0.2m btm skeletal test	20	25	40	<0.5	13	<0.005	199	
217229		3025E	" " " "	25	25	30	0.5	17	<0.005	211	
217230		3050E	" " " "	25	20	25	<0.5	15	<0.005	240	
217231		3075E	" " " "	30	15	40	<0.5	20	<0.005	290	
217232		3100E	" " " "	15	10	25	<0.5	11	<0.005	185	
	HENRY RIVER 3125E										
217652		3150E	" C 0.5m cream clay	<5	5	15	0.5	1	<0.005	332	
217653		3175E	" C 0.6m " "	5	5	30	0.5	8	<0.005	367	
217654		3200E	" C 0.5m " "	<5	10	10	<0.5	1	<0.005	305	
217655		3225E	" C 0.7m " "	5	<5	10	<0.5	1	<0.005	157	
217656		3250E	" C 0.8m - orange clay	<5	10	15	0.5	10	<0.005	248	
217657		3275E	" " 1.0m cream clay	<5	10	10	1.0	2	<0.005	251	
217658		3300E	" " 0.4m " " + glc	5	10	10	<0.5	1	<0.005	518	
217659		3325E	" " 0.5m " "	5	10	10	<0.5	2	<0.005	368	
217660		3350E	" " 0.6m " "	10	10	10	<0.5	2	<0.005	281	
217661		3375E	" " 0.8m " "	<5	10	5	<0.5	2	<0.005	391	
217662		3400E	" " 0.9m " "	5	5	10	<0.5	2	<0.005	285	
217663		3425E	" " 1.0m orange	10	45	35	<0.5	14	<0.005	404	
217664		3450E	" " 0.8m " clay	5	20	15	<0.5	4	<0.005	649	
217665		3475E	" " 0.5m " "	10	30	20	0.5	10	<0.005	675	
217666		3500E	" " 1.0m eskal clay + glc	<5	10	15	<0.5	4	<0.005	331	

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081

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT ELIENS VOLCANIC
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY ANALABS
 SAMPLE TYPE SOIL/ROCK

COLLECTED BY: BELL/LOWERY
 DATE DISPATCHED:
 DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Cu	Pb	Zn	Ag	As	Au	Ba	
217667	12N	352SE	Soil C 1.0m cream clay	5	20	10	0.5	7	<0.005	522	
217668		3550E	" " 0.5m " "	<5	10	10	0.5	3	<0.005	643	
217669		357SE	" " 0.6m " "	<5	10	15	<0.5	4	<0.005	474	
217670		3600E	" " 0.6m cream/green clay + glc	10	20	30	<0.5	6	<0.005	658	
217671		362SE	" B/c 0.5m " "	<5	10	10	<0.5	4	<0.005	93	
217672		3650E	" C 0.6m cream/orange + glc	<5	15	20	0.5	5	<0.005	759	
217673		367SE	" C 1.0m orange/green clay	5	20	60	1.0	6	<0.005	826	
217674		3700E	" C 0.7m cream/orange "	<5	20	20	0.5	5	<0.005	410	
217675		32SE	" B/c 0.4m " "	<5	15	10	0.5	6	<0.005	394	
217676		3750E	" C 0.8m " " + glacial	5	20	20	<0.5	8	<0.005	536	
217677		377SE	" C 0.5m orange clay + "	10	25	20	1.0	19	<0.005	719	
217678		3800E	" C 1.0m cream/orange + glacial	5	25	15	0.5	7	<0.005	278	
217679		382SE	" " 1.0m " " clay	10	20	10	0.5	6	<0.005	481	
217680		3850E	" B/c 1.0m khaki-grey clay + glc	5	15	5	<0.5	5	<0.005	94	
217681		387SE	" B/c 1.0m cream clay	5	20	10	<0.5	14	<0.005	205	
217682		3900E	" " 0.3m " brn "	20	50	20	1.0	9	<0.005	94	
217683		392SE	" B 0.5m glacial	5	20	5	0.5	5	<0.005	29	25
217684		3950E	" B/c 0.3m khaki ?	10	30	10	<0.5	13	<0.005	76	50
217685		397SE	" C 0.8m " -orange clay	5	30	30	1.0	27	<0.005	366	80
217686		4000E	" B/c 0.6m grey-brn clay	15	40	25	<0.5	17	<0.005	326	20
217687		402SE	" B 0.8m glacial sand & sbbles	5	<5	10	1.0	6	<0.005	98	

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 11/8S YOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALABS
 SAMPLE TYPE SOIL - ROCK

BELL
 COLLECTED BY: COONEY.
 DATE DISPATCHED:
 DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Cu	Pb	Zn	Ag	As	Au	Ba	
217619	14N	2950E	Soil - 1m C khaki	35	110	230	1.5	30	<0.005	457	
217620		2975E	" 0.7m C cream - orange clay	<5	20	15	0.5	1	<0.005	867	
217621		3000E	" 1.0m " grey clay.	5	15	10	0.5	<1	<0.005	648	
217622		3025E	" 0.8m " pale orange	<5	15	15	1.0	1	<0.005	493	
217623		3050E	" 0.7m " cream - orange	5	25	25	1.0	<1	<0.005	493	
217624		3075E	" 0.5m " " clay	5	25	20	0.5	1	<0.005	652	
217625		3100E	" 0.8m " " "	<5	15	15	0.5	<1	<0.005	680	
217626		3125E	" 0.6m " " "	5	10	15	1.0	1	<0.005	639	
217627		3150E	" 0.8m " cream	<5	10	15	0.5	<1	<0.005	723	
217628		3175E	" 0.3m " cream clay + glac'	<5	10	10	0.5	1	<0.005	603	
217629		3200E	" 0.5m " " "	5	10	10	0.5	2	<0.005	249	
217630		3225E	" 0.6m " " "	<5	15	15	0.5	2	<0.005	342	
217631		3250E	" 1.0m " green - orange	10	45	130	0.5	10	<0.005	538	
217632		3275E	" 0.5m B/c cream	5	30	20	0.5	3	<0.005	217	
217633		3300E	" 1.0m C green clay	5	30	50	1.0	<1	<0.005	555	
217634		3325E	" 1.0m B/c cream - choc brn + glac	15	75	15	1.0	2	<0.005	110	
217635		3350E	" 1.0m C " - brn	5	10	15	<0.5	1	<0.005	118	
217636		3375E	" 0.8m B/c " " + glac	<5	10	20	1.0	1	<0.005	626	
217637		3400E	" 1.5m C " " "	<5	5	10	0.5	1	<0.005	198	
217638		3425E	" 0.8m C creamy - yellow clay	<5	<5	10	<0.5	1	<0.005	274	
217639		3450E	" 0.6m B/c " clay + glac'	10	30	15	0.5	7	<0.005	192	

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: N. POLTOCK

PROJECT EL 11/85 VOLANDE

LABORATORY ANA LABS

DATE DISPATCHED:

PROSPECT NEWTON CR - NTH HENTY FAULT SAMPLE TYPE WACKER Rock/soil

DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Cu	Pb	Zn	Ag	As	Au	Ba	
217370	16N	1100E	3.2m - Volc med g'd qtz phytic	10	70	55	<0.5	11	<0.005	608	
217371		112.5E	1.4m " " " phytic	5	95	220	<0.5	13	<0.005	358	
217372		112.5E	3.4m Serpentine / talc	5	45	120	<0.5	11	<0.005	72	
217374		1137.5E	3.6m Glacial - Serpentine	<5	40	175	1.0	19	<0.005	<10	
217375		1150E	2.0m Serpentine	<5	35	40	0.5	220	<0.005	11	
217376		1162.5E	5.8m "	5	35	25	<0.5	27	<0.005	33	
217377		1175E	7.0m "	<5	35	20	<0.5	14	<0.005	43	
217378		1187.5E	7.2m Siltst dk green - cream brw	<5	30	25	<0.5	11	<0.005	41	
217379		1200E	9.0m Serpentine - talc	<5	15	80	<0.5	14	<0.005	25	
217380		1212.5E	6.0m Volc derived glacial	30	20	10	<0.5	18	<0.005	447	
217381		1225E	3.0m Volc? sheared sericitic	<5	10	<5	0.5	6	<0.005	547	
217382		1237.5E	3-4m Siltst pink - green	10	30	45	<0.5	8	<0.005	662	
217383		1250E	2.9m " " "	30	30	40	0.5	7	<0.005	665	
217384		1262.5E	2.2m " " "	<5	25	40	<0.5	5	<0.005	417	
217385		1275E	2.5m Siltst/gneiss, minor qtz veinlets	15	40	70	<0.5	7	<0.005	243	
217386		1287.5E	0.3m " " "	<5	30	55	1.0	6	<0.005	281	
217387		1300E	1.2m " " "	<5	30	40	<0.5	7	<0.005	411	450086
217388		1312.5E	1.0m Glacial	<5	25	35	<0.5	7	<0.005	367	450086
217389		1325E	3.0m Basaltic intrusive?	30	30	40	<0.5	7	<0.005	235	450086
217390		1337.5E	Glacial clay?	60	30	50	<0.5	16	<0.005	311	
217391		1350E	Siltst - green - grey 2.6m	2700	30	90	<0.5	10	<0.005	220	

ROGER POLTOCK GEOLOGICAL PTY. LTD.

COONEY
BELL
H. Pollock

CLIENT CYPRUS MINERALS

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT EL 11/85 YOLANDE

LABORATORY ANALABS

DATE DISPATCHED:

PROSPECT NEWTON CREEK - Mt Henry Fault

SAMPLE TYPE WACKER - SOIL ROCK

DATE RECEIVED:

A 2808

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES									
				Cu	Pb	Zn	Ag	As	Au	Ba			
217392	16N	1350E	Clacids 2.5m	8									
217393		1362.5E	2.0m fragments of basic rock / pink siltst	30	30	50	<0.5	6	<0.005	260			
217394		1375E	1.2m siltst	<5	30	30	<0.5	6	<0.005	340			
217395		1387.5E	1.0m " maron	<5	25	30	<0.5	5	<0.005	359			
217396		1400E	1.2m " gwk maron-green, g/w veins	<5	30	30	<0.5	6	<0.005	290			
N.B. 1200m interval between 1400E (GETTY oil Grid) and 1700E (Mt Lyell Grid).													
217551	16N	1700E	Soil B/c 1.0m khaki-red clay	20	40	35	1.5	6	<0.005	157		22	
217552		1725E	" " 1.0m " -green "	25	40	40	1.0	6	<0.005	206		20	
217553		1750E	" " 1.0m " "	30	40	55	1.5	8	<0.005	174		20	
217554		1775E	" " 0.8m " "	15	35	40	0.5	6	<0.005	133		22	
217555		1800E	" " 1.0m " "	45	35	75	1.0	8	<0.005	294			

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

COONEY
BELLCLIENT CYPRUS MINERALS
PROJECT Ek 11/85 YOLANDE
PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY ANALABS
SAMPLE TYPE SOIL - ROCKCOLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES						
			W	Pb	Zn	Ag	As	Au	Ba
217556	16N 182SE	Soil 0.5m C khaki clay.	35	30	40	1.0	6	<0.005	211
217557		Rock chip	30	30	75	1.5	6	<0.005	528
217558		Soil 1.0m C khaki clay	10	25	20	1.0	5	<0.005	146
217559		" 1.0m C "	10	25	30	0.5	5	<0.005	148
217560		" 1.0m " orange-green	15	30	30	<0.5	9	<0.005	127
217561		" 1.2m " orange	15	30	30	1.0	8	<0.005	106
217562		" 1.3m "	35	35	55	1.0	8	<0.005	145
	Henry River 2000E								
	" " 202SE								
217563		Soil 0.7m C cream-orange	5	25	10	0.5	7	<0.005	142
217564		" 0.6m " grey-yellow	5	15	20	<0.5	7	<0.005	146
217565		" 1.0m " orange clay	25	685	760	1.5	21	<0.005	561
217566		" 0.5m " cream-orange	5	30	15	0.5	12	<0.005	323
217567		" 0.7m " cream-grey - glauca	<5	15	10	<0.5	3	<0.005	234
217568		" 1.0m " " orange	5	30	15	<0.5	23	<0.005	256
217569		" 0.5m " " "	<5	20	15	<0.5	5	<0.005	374
217570		" 0.5m " " "	<5	15	15	<0.5	3	<0.005	463
217571		" 0.8m " cream-yellow	<5	20	15	<0.5	2	<0.005	435
217572		" 0.7m " " - orange	<5	30	15	<0.5	21	<0.005	448
217573		" 0.5m " " "	<5	15	10	<0.5	3	<0.005	423
217574		" 1.0m " " "	<5	25	15	<0.5	4	<0.005	505

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 1185 YOLANDE
 PROSPECT NEWTON CK

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY ANA ABS
 SAMPLE TYPE SOIL - Rock

BELL
 COLLECTED BY: COONEY
 DATE DISPATCHED:
 DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Cu	Pb	Zn	Ag	As	Au	Ba	
217575	16N	2350E	Soil 1.0m C cream-orange	<5	20	20	1.0	<1	<0.005	1130	
217576		237SE	" 0.7m " " clay	<5	10	10	0.5	<1	<0.005	525	
217577		2400E	" 0.8m " cream clay	<5	15	15	1.0	1	<0.005	1020	
217578		242SE	" 1.0m " " -orange	<5	20	15	<0.5	<1	<0.005	754	
217579		2450E	" 0.5m " " "	<5	15	10	0.5	<1	<0.005	571	
217580		247SE	" 1.0m " " - orange	5	15	15	1.0	1	<0.005	763	
217581		2500E	" 0.5m " " "	<5	20	15	1.0	<1	<0.005	670	
217582		252SE	" rock? B	5	20	60	1.0	2	<0.005	1130	
217583		2550E	soil 0.7m C " "	<5	25	30	0.5	2	<0.005	1080	
217584		257SE	" 1.5m " " clay + glauc	10	20	15	0.5	1	<0.005	212	
217585		2600E	" 1.0m " orange - green clay	20	55	105	<0.5	4	<0.005	1290	
217586		262SE	" 1.5m C orange	65	60	135	<0.5	14	<0.005	667	
217587		2650E	" 1.0m C cream-orange + glauc	5	15	10	0.5	3	<0.005	136	
217588		267SE	" 1.0m " orange-green clay	55	155	170	<0.5	3	<0.005	434	
217589		2700E	" 1.0m B/c " - khaki + glauc	10	30	30	0.5	4	<0.005	99	
217590		272SE	" 0.9m C cream-orange - green	5	20	25	0.5	2	<0.005	444	
217591		2750E	" 1.5m B/c khaki clay + glauc	45	65	255	0.5	3	<0.005	130	750099
217592		277SE	" 2.0m " black - white clay	15	50	25	0.5	6	<0.005	212	
217593		2800E	" 2.0m " " " "	5	30	15	<0.5	3	<0.005	482	
217594		282SE	" 1.5m C green clay	15	30	40	0.5	45	<0.005	736	680089
217595		2850E	" 1.5m " cream-green clay/sand	5	20	20	0.5	4	<0.005	461	

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYRUS MINERALS
 PROJECT EL 11/85 YALAUDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALABS
 SAMPLE TYPE SOIL ROCK

COLLECTED BY: COONEY
 BELW
 DATE DISPATCHED:
 DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES							
			Cu	Pb	Zn	Ag	As	Au	Ba	
217418N	18N	1600E Soil- B/c 0.6m khaki	55	45	95	1.5	8	<0.005	156	
217449		1625E " " 0.5m khaki - orange	45	30	50	1.0	7	<0.005	130	
217450		1650E " " 0.5m "	30	40	85	1.0	5	<0.005	215	
217501		1675E " " 0.5m "	15	30	75	0.5	5	<0.005	140	
217502		1700E " C 0.5m orange gk py?	15	25	45	0.5	2	<0.005	154	
217503		1725E " B/c 0.5m khaki - orange	40	25	40	1.0	3	<0.005	92	
217504		1750E " C 0.7m orange	75	40	100	1.0	4	<0.005	166	
217505		1775E " B/c 0.7m cream - yellow	10	15	30	0.5	1	<0.005	90	
217506		1800E " " 0.5m " "	10	10	30	<0.5	2	<0.005	17	
217507		1825E " C 1.0m " " green	5	15	25	0.5	1	<0.005	42	
217508		1850E " B/c 0.7m burnt orange	50	30	75	<0.5	6	<0.005	74	
217509		1875E " " 0.4m orange brn - green	455	40	150	<0.5	7	<0.005	228	
217510		1900E " " 1.0m brn - khaki	220	35	90	<0.5	17	<0.005	297	
	HEAVY RIVER	1925E								
	" "	1950E								
217511		1975E " B/c 1.0m orange - brn	15	100	80	1.5	34	<0.005	400	
217512		2000E " C 0.5m cream - orange	5	50	20	0.5	15	<0.005	389	
217513		2025E " C 1.0m "	5	15	20	1.0	1	<0.005	465	
217514		2050E " B/c 0.8m "	5	5	15	1.5	<1	<0.005	140	
217515		2075E " " 1.0m cream - glaciols	5	10	20	1.0	1	<0.005	593	
217516		2100E " " 0.5m " "	<5	15	20	0.5	1	<0.005	955	

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT ER 11/25 YULANDE
 PROSPECT NENTON CRGER

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY
 SAMPLE TYPE SOIL - ROCK

COLLECTED BY: COCKNEY
 BELL
 DATE DISPATCHED:
 DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Ca	P	Ln	Ag	As	Au	ISA	
217517	12N	212SE	SOIL 0.7m B/c cream grey	5	25	15	<0.5	1	<0.005	615	
217518		2150E	" 0.6m C orange	5	20	10	<0.5	1	<0.005	363	
217519		217SE	" 1.0m C "	5	25	15	<0.5	7	<0.005	581	
217520		2200E	" 0.5m C "	15	45	45	1.0	23	<0.005	772	
217521		2235E	" 0.8m C burnt orange	10	45	60	0.5	10	<0.005	932	
217522		2250E	" 0.5m C "	15	40	40	0.5	6	<0.005	639	
217523		227SE	" 0.5m C "	15	55	50	0.5	8	<0.005	649	
217524		2300E	" 0.4m C orange	10	25	35	<0.5	4	<0.005	633	
217525		232SE	" 0.7m C burnt orange	20	35	40	0.5	8	<0.005	593	
217526		2350E	" 0.6m C " " - green	25	40	40	0.5	9	<0.005	751	
217527		237SE	" 0.6m C " " "	15	40	30	0.5	9	<0.005	731	
217528		2400E	" 0.5m C cream - yellow	10	30	25	<0.5	4	<0.005	717	
217529		2425E	" 1.0m B/c " - gl + glac	5	15	10	<0.5	1	<0.005	682	
217530		2450E	" 1.0m " " - glac pebbles	10	20	10	<0.5	2	<0.005	1170	
217531		247SE	" 0.4m " cream - yellow	5	15	15	<0.5	1	<0.005	669	
217532		2500E	" 0.6m " " " "	5	15	5	<0.5	<1	<0.005	429	
217533		2525E	" 1.0m C cream	<5	10	5	<0.5	<1	<0.005	388	750092
217534		2550E	" 0.4m B/c "	<5	20	10	0.5	1	<0.005	805	
217535		257SE	" 0.5m " cream + glac	<5	20	10	<0.5	<1	<0.005	868	
217536		2600E	" 0.7m C cream	<5	15	10	0.5	<1	<0.005	658	
217537		2625E	" 1.0m C "	<5	15	10	0.5	<1	<0.005	1110	

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT Eh 11/85 YOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALABS
 SAMPLE TYPE Soil Rock

COLLECTED BY: COONEY BELL
 DATE DISPATCHED:
 DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Ca	Pb	Zn	Ag	As	Au	Pg
217538	12N	2650E	Soil - 0.8m b/c orange	5	25	15	40.5	3	<0.005	965
217539		2675E	" 0.2m C " - cream	<5	25	15	0.5	<1	<0.005	1080
217540		2700E	" 0.5m " cream - glaci	5	10	10	40.5	<1	<0.005	498
217541		2725E	" 0.6m b/c cream - khaki	15	40	35	0.5	9	<0.005	671
217542		2750E	" 0.4m " cream - glaci p/b	5	10	10	40.5	<1	<0.005	723
217543		2775E	" 1.3m " cream " "	15	25	40	40.5	6	<0.005	703
217544		2800E	" 0.7m B Glaciab	5	15	5	<0.5	<1	<0.005	101
217545		2825E	" 0.8m " "	10	30	25	<0.5	2	<0.005	578
217546		2850E	" 0.8m C pale green	5	30	40	<0.5	4	<0.005	624
217547		2875E	" 0.8m C " "	10	25	50	<0.5	3	<0.005	595
217548		2900E	" 1.0m C cream green - glaci	15	15	25	<0.5	1	<0.005	712
217549		2925E	" 1.5m b/c cream - green	5	15	10	<0.5	3	<0.005	772
217550		2950E	" 0.5m C cream - glaciab	5	10	5	<0.5	1	<0.005	82

088

ROGER POLTOCK GEOLOGICAL PTY. LTD.

BELL/COONEY.
POLTOCKCLIENT CYPRUS MINERALS
PROJECT ELI/ES YOLANDE
PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY ANALYSIS
SAMPLE TYPE SOIL ROCK CHIPCOLLECTED BY: ~~AA-LAAW~~
DATE DISPATCHED:
DATE RECEIVED:

A 2805

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Cu	Pb	Zn	Ag	As	Au	Ba
217224	20N	1700E	Soil 0.2m dk brw skeletal soil	5	5	15	1.0	1	<0.005	146
217225		1725E	" " " " " "	25	10	30	<0.5	8	<0.005	93
217226		1750E	" " " " " "	10	20	25	<0.5	8	<0.005	102
217227		1775E	" " " " " "	5	10	30	0.5	5	<0.005	116
	HENTY RIVER	1800E								
		1825E								
217421	20N	1850E	Soil B-C 0.5m khaki	15	110	50	<0.5	9	<0.005	808
217422		1875E	" B-C 0.7m grey-cream	10	70	20	0.5	8	<0.005	761
217423		1900E	" C 0.4m yellow-orange	6	60	25	1.0	8	<0.005	655
217424		1925E	Rock chip	10	90	200	1.0	7	<0.005	1030
217425		1950E	Soil 0.5m C cream-yellow	<5	20	20	1.0	2	<0.005	790
217426		1975E	" 0.6m B/C " "	<5	10	15	0.5	1	<0.005	1020
217427		2000E	" 0.4m " " "	5	15	10	<0.5	2	<0.005	589
217428		2025E	" 0.3m " " "	5	35	10	2.0	1	<0.005	1090
217429		2050E	" 0.4m C " "	5	15	10	1.0	2	<0.005	860
217430		2075E	" 0.6m B/C " - pink	10	10	25	0.5	2	<0.005	1350
217431		2100E	" 1.0m C " "	5	10	10	<0.5	1	<0.005	1050
217432		2125E	" 0.4m B/C " "	10	10	10	0.5	1	<0.005	628
217433		2150E	" 1.0m " " "	10	15	10	1.0	1	<0.005	672
217434		2175E	" 1.0m " cream-yellow	20	15	10	1.0	2	<0.005	856
217435		2200E	" 0.7m C black-orange	20	30	40	1.0	11	<0.005	715

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034

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT K11/85 VOLCANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY ANALABS
 SAMPLE TYPE SOIL / Rock

COLLECTED BY: WOONEY BELL
 DATE DISPATCHED:
 DATE RECEIVED:

A 2805

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Cu	Pb	Zn	Ag	As	Au	Ba
217436	20N	222SE	Soil B/c 0.7m black-orange	15	30	30	1.0	11	<0.005	650
217437		2250E	" " " " "	25	60	55	0.5	21	<0.005	728
217438		227SE	" " 1.0m cream-yell	15	25	20	0.5	15	<0.005	543
217439		2300E	" " 0.4m " -orange	20	20	15	0.5	6	<0.005	515
217440		232SE	" B 0.4m grey-glaciols	10	10	15	1.0	2	<0.005	444
217441		2350E	" B 0.5m " "	15	15	30	<0.5	1	<0.005	504
217442		237SE	" B 1.0m " "	25	15	30	<0.5	1	<0.005	400
217443		2400E	" B/c 0.8m cream-orange	15	10	10	<0.5	1	<0.005	41
217444		242SE	" B 1.0m Glaciols	15	10	15	1.0	1	<0.005	30
217445		2450E	" B/c 0.8m " pink/brn	35	15	10	0.5	2	<0.005	22
217446		247SE	" C 1.0m sand cream	5	10	20	<0.5	1	<0.005	94
217447		2500E	" B 0.8m cream-glaciols	10	5	15	<0.5	1	<0.005	147

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035

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 11/85 VOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALABS
 SAMPLE TYPE Soil - Rock CHIP

COLLECTED BY: M. LAAN
 DATE DISPATCHED:
 DATE RECEIVED:

A 28005

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES						
			Cu	Pb	Zn	Ag	As	Au	Ba
217185	22N 137SE	Soil - 0.2m B brown clay	5	5.10	10	<0.5	1	<0.005	20
217186	1400E	" 0.2m B/c choc/pink	65	15	50	<0.5	5	<0.005	220
217187	142SE	" B/c brw shale	75	110.25	110	0.5	8	<0.005	214
217188	1450E	" 0.25m B/c " "	100	20	160	<0.5	7	<0.005	20
217189	147SE	" 0.2m " " "	120	25	95	0.5	11	<0.005	277
217190	1500E	" 0.2m " " "	140	15	95	1.5	5	<0.005	307
	152SE								
	HENTY RIVER 1550E								
	157SE								
217191	1600E	Soil 0.2m B/c purple shale	95	20	55	1.0	17	<0.005	359
217192	162SE	" 0.3m C yel clay - pyrite shale	<5	<5	10	0.5	3	<0.005	324
217193	1650E	" 0.2m C brn clay - green shale	15	25	30	<0.5	14	<0.005	44
217194	167SE	" 0.4m C brn clay, grey green shale	10	45	80	0.5	19	<0.005	389
217195	1700E	" 0.3m B/c creek bed	5	30	20	<0.5	3	<0.005	570
217196	172SE	" 0.7m B Alluvial GRNLS.	5	10	15	1.0	1	<0.005	966
217197	1750E	" 0.25m " " "	<5	<5	10	0.5	<1	0.005	289
217198	177SE	" 0.5m B/c brn	5	10	25	1.5	16	0.01	748
217199	1800E	" 0.25m C green shale	5	5	20	0.5	3	<0.005	291
217200	182SE	" 0.5m C cream clay	5	<5	10	<0.5	18	<0.005	257
217201	1850E	" 0.35m C "	<5	<5	5	0.5	1	<0.005	119
217202	1850E	DUPLICATE.	<5	<5	5	<0.5	<1	<0.005	119

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 11/85 VOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY ANALABS
 SAMPLE TYPE SOIL ROCK CHIP

COLLECTED BY: M. L. AAN.
 DATE DISPATCHED:
 DATE RECEIVED:

A 2805

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				CO	Pb	ZN	Ag	As	Au	Bea
217203	22N	187SE	Soil - 0.6m C green brn	5	35	155	0.5	<1	<0.005	1180
217204		1900E	" 0.7m C limonitic	5	80	100	0.5	1	<0.005	886
217205		192SE	" 0.2m C flav	5	70	120	0.5	3	0.01	1010
217206		1950E	" 0.6m C green clay	45	200	500	1.5	11	<0.005	920
217207		197SE	" 0.3m C yellow clay	5	110	60	0.5	8	<0.005	660
217208		2000K	" 0.4m C " " - greenish	20	35	140	<0.5	6	<0.005	676
217209		202SE	" 0.2m C " "	15	25	150	1.0	8	<0.005	831
217210		2050E	" 0.2m C yellow-green	35	20	230	<0.5	7	<0.005	861
217211		207SE	" 0.4m C green - brn	20	20	60	<0.5	7	<0.005	447
217212		2100E	" 0.3m C yel brn	20	15	85	<0.5	7	<0.005	379
217213		212SE	" 0.5m C yel clay -	5	10	15	0.5	3	<0.005	322
217214		2150E	" 0.6m C green - yellow	35	10	155	<0.5	3	<0.005	697
217215		217SE	" 0.3m C yellow-green	20	<5	130	1.0	1	<0.005	470
217216		2200E	GLACIALS 0.6m B	5	<5	5	1.0	<1	<0.005	120
217217		222SE	Soil 0.6m C cream brn	5	<5	5	<0.5	<1	<0.005	380
217218		2250E	" 0.5m B GLACIALS ?	5	<5	10	0.5	<1	<0.005	551
217219		227SE	" 0.6m C cream	<5	<5	15	0.5	3	<0.005	591
217220		2300K	" 0.4m B/c cream	20	<5	35	0.5	8	<0.005	957
217221		230E	DUPLICATE	40	<5	95	<0.5	5	<0.005	724
217222		232SE	Soil 0.6m C green-tan clay	5	<5	95	<0.5	1	<0.005	453
217223		2350E	" 0.8m A/c brown	10	<5	25	<0.5	1	0.015	442

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 1185 YOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALABS
 SAMPLE TYPE SOIL ROCK

COLLECTED BY: COONEY BELL
 DATE DISPATCHED
 DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Ca	Pb	Zn	Ag	As	Au	Ba	
217606	24N	3000E	Soil 0.5m C cream - orange	10	20	15	0.5	4	<0.005	816	
217607		3020E	" 0.8m C " "	10	15	15	<0.5	3	<0.005	1010	
217608		3040E	" 1.0m " " "	10	35	60	0.5	6	<0.005	745	
217609		3060E	" 0.5m " orange	10	40	65	0.5	6	<0.005	866	
217610		3080E	" 0.5m " cream - orange - green	10	35	95	0.5	2	<0.005	613	
217611		3100E	" 0.8m " orange - green	15	40	110	1.5	1	<0.005	685	
217612		3120E	" 0.7m " cream - grey	10	15	10	<0.5	<1	<0.005	927	
217613		3140E	" 0.6m " " - orange	10	20	15	0.5	1	<0.005	533	
217614		3160E	" 0.8m " " - grey	5	10	10	0.5	<1	<0.005	1020	
217615		3180E	" 0.8m " " - orange	10	15	30	<0.5	1	<0.005	1040	
217616		3200E	" 1.0m " " " "	10	25	65	<0.5	3	<0.005	676	
217617		3220E	" 0.5m " " " - green	<5	15	45	0.5	4	<0.005	690	
217618		3240E	" 0.5m B/c grey - cream	5	15	10	0.5	1	<0.005	680	
217601	24N	2620E	" 0.6m C khaki clay	140	250	820	<0.5	34	<0.005	61	
217602		2640E	" 1.0m C orange	35	80	160	<0.5	34	<0.005	43	
217603		2660E	" 0.6m C khaki clay	40	115	155	<0.5	39	<0.005	39	
217604		2680E	" 0.7m C " "	55	110	95	0.5	67	<0.005	79	
217605		2700E	" 1.0m B/c cream clay + glacial	10	30	30	0.5	4	<0.005	213	

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CIPROS MINERALS
 PROJECT EL 11/85 VOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALYSIS
 SAMPLE TYPE SOIL ROCK CHIP

COLLECTED BY: M. LAAN
 DATE DISPATCHED:
 DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES						
			Ca	Pb	Zn	Ag	As	Au	Ba
217141	Heavy River 26N	1050E Soil 0.6m C green siltst	95	<5	50	<0.5	10	<0.005	321
217142		1075E " 0.5m C brn green "	75	<5	80	<0.5	18	<0.005	83
217143		1100E " 0.2m C brn clay - lim shale	20	15	80	1.5	6	<0.005	75
217144		1150E " 0.4m C yel clay - green shale	70	<5	100	<0.5	4	<0.005	327
217145		1175E " 0.3m C tan brn clay - " "	30	10	35	<0.5	3	0.020	200
217146		1200E " 0.3m C " clay - purple shale	25	5	115	<0.5	4	<0.005	379
217147		1225E " 0.7m B GLACIALS	<5	<5	5	<0.5	1	<0.005	22
217148		1250E " 0.5m C green-purple shale > limonite	40	35	95	<0.5	16	<0.005	285
217149		1275E " 0.3m C wack shale tan - "	10	<5	45	0.5	5	<0.005	353
217150		1300E " 0.4m C green shale - yellow clay	20	10	30	<0.5	5	<0.005	127
217151		1325E " 0.5m C " " " "	10	<5	40	<0.5	3	<0.005	122
217152		1350E Rock chip green shale	45	<5	125	<0.5	4	0.005	171
217153		1375E Soil 0.6m B/C " " - brn clay	65	20	115	<0.5	9	<0.005	208
217154		1400E " 0.4m A/C " " " "	30	20	100	<0.5	9	<0.005	175
217155		1425E " 0.35m C " " yel clay	85	<5	85	<0.5	8	<0.005	261
217156		1450E " 0.25m C tan clay - purple green mudst	10	<5	120	<0.5	3	<0.005	306
217157		1475E " 0.25m C brn purple clay	15	<5	125	<0.5	4	<0.005	321
217158		1500E " 0.3m C purple shale	25	<5	95	<0.5	5	<0.005	199
217159		1525E " 0.6m C yel green clay - green shale	25	<5	75	<0.5	12	<0.005	186
217160		1550E " 0.8m C tan clay - purple shale	10	<5	60	<0.5	3	<0.005	229

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009

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 11/85 YOLANDE
 PROSPECT NEWTON CRACK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALYSIS
 SAMPLE TYPE SOIL ROCK CHIP

COLLECTED BY: M LAAN
 DATE DISPATCHED:
 DATE RECEIVED:

A 28306

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES							
			Cu	Pb	Zn	Ag	As	Au	Ba	
217161	26N	1550E DUPLICATE	5	<5	50	<0.5	3	<0.005	218	
217162		1575E Soil 0.7m C tan clay	20	<5	60	<0.5	4	<0.005	223	
217163		1600E " 0.4m C " - purple shale	15	<5	80	<0.5	4	<0.005	254	
217164		1625E " 0.6m C " "	15	<5	70	<0.5	5	0.015	230	
217165		1650E " 0.5m C khaki clay - green shale	20	<5	70	<0.5	5	<0.005	256	
217166		1675E " 0.5m C cream clay - limonitic	10	<5	20	<0.5	5	<0.005	145	
217167		1700E " 0.6m B/C " "	10	<5	20	<0.5	7	<0.005	33	
217168		1725E " 0.5m C skeletal soil cream-tan	5	<5	35	<0.5	22	<0.005	201	
217169		1750E " 0.4m C fig green shale	15	30	160	0.5	5	<0.005	89	
217170		1775E " 0.8m C vile chloritic?	15	<5	30	<0.5	4	<0.005	77	
217171		1800E " 0.2m C yel clay	20	20	30	<0.5	11	<0.005	49	
217172		1825E " 0.5m C green-cream clay - limonitic	10	60	130	<0.5	39	<0.005	1240	
217173		1850E " 0.25m C cream - orange	5	5	15	<0.5	10	<0.005	764	
217174		1875E " 0.5m C cream	10	5	15	<0.5	6	<0.005	697	
217175		1900E " 0.7m C cream	5	<5	10	<0.5	2	<0.005	603	
217176		1925E " 0.4m C cream-green	5	10	5	<0.5	1	<0.005	781	
217177		1950E " 0.5m C cream	5	5	10	<0.5	1	<0.005	1040	
217178		1975E " 0.4m C cream	5	5	5	<0.5	1	<0.005	592	
217179		2000E " 0.3m C "	5	10	10	<0.5	1	0.005	767	
217180		2025E " 0.2m C "	<5	<5	10	<0.5	1	<0.005	967	
217181		2025E DUPLICATE	5	5	5	<0.5	1	<0.005	829	

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 11/85 YOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANA LABS
 SAMPLE TYPE Soil - Rock chip

COLLECTED BY: BELL/COONEY
 DATE DISPATCHED:
 DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Cu	Pb	Zn	Ag	As	Au	Ba	
217233	28N	1680E	Soil - 0.7m B cream	<5	<5	15	<0.5	4	<0.005	56	
		1660E	GLACIALS NO SAMPLE								
217234		1640E	Soil 0.3m B/c cream-green	10	<5	100	<0.5	1	<0.005	195	
217235		1620E	" 0.6m B/c yellow-khaki	120	5	130	<0.5	1	<0.005	75	
217236		1600E	" 0.9m B/c purple-khaki	25	<5	155	<0.5	2	<0.005	237	
217237		1580E	" 0.5m B/c khaki + pebbles (glac)	25	<5	90	<0.5	1	<0.005	64	
217420		1560E	" 0.7m B/c cream-gray	15	<5	90	1.0	2	<0.005	232	-
217419		1540E	" 0.7m " " - pink	30	<5	120	<0.5	2	<0.005	156	
217418		1520E	" 1.0m " cream-green Rockfrag	15	<5	55	0.5	1	<0.005	194	
217417		1500E	" 0.5m " " "	20	<5	75	<0.5	1	<0.005	265	
217416		1480E	" 0.5m " cream	10	5	15	0.5	2	<0.005	156	
217415		1460E	" 0.3m " " "	15	25	70	0.5	3	<0.005	323	
217414		1440E	" 0.5m " yellow-orange	25	30	85	<0.5	6	<0.005	350	
217413		1420E	" 1.0m " khaki	45	115	120	0.5	16	<0.005	357	
217412		1400E	Rock chip	35	70	195	<0.5	15	<0.005	810	
217411		1380E	" 0.5m " orange	25	105	75	<0.5	25	<0.005	336	
217410		1360E	" 0.2m " " - brn	405	95	765	<0.5	42	<0.005	445	
217409		1340E	" 0.4m " khaki	25	10	110	<0.5	9	<0.005	201	
217408		1320E	" 0.4m " khaki	35	125	140	1.0	13	<0.005	536	
217407		1300E	" 0.4m " yellow + g/b	10	<5	15	<0.5	22	<0.005	308	
217406		1280E	" 0.7m " khaki	25	10	80	<0.5	11	<0.005	521	

759102

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 11/ES YOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALYSIS
 SAMPLE TYPE SOIL ROCK CHIP

COLLECTED BY: COONEY BELL
 DATE DISPATCHED:
 DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Cu	Pb	Zn	Ag	As	Au	Ba	
217405	28N	1260E	Soil - 0.2m B/c khaki	50	15	65	<0.5	13	<0.005	481	
217404		1240E	" 0.5m "	45	30	80	<0.5	28	<0.005	216	
217403		1220E	" 0.3m " - black	130	25	90	<0.5	16	<0.005	417	
		1200E	HENRY R								
217402		1180E	Soil 0.3m " khaki	45	<5	55	<0.5	11	<0.005	297	
217401		1160E	" 1.0m "	60	<5	60	<0.5	14	<0.005	288	
217250		1140E	0.6m B/c khaki	60	<5	90	<0.5	11	<0.005	285	
217249		1120E	1.0m B/c "	45	<5	75	<0.5	10	<0.005	258	
217248		1100E	1.0m " "	60	<5	45	<0.5	12	<0.005	164	
217247		1080E	0.7m " "	35	<5	40	<0.5	13	<0.005	154	
217246		1060E	0.7m " "	65	10	40	<0.5	28	<0.005	146	
217245		1040E	0.5m " rusty - orange	145	5	45	<0.5	16	<0.005	161	
217244		1020E	1.0m B khaki	20	5	85	<0.5	15	<0.005	52	
217243		1000E	1.0m B/c "	20	<5	60	0.5	23	<0.005	298	
217242		980E	0.7m C "	25	<5	65	<0.5	5	<0.005	228	
217241		960E	0.3m B/c yellow - limonitic	<5	<5	15	<0.5	<1	<0.005	239	
217240		940E	0.5m B/c cream - khaki	<5	5	25	<0.5	1	<0.005	169	
217239		920E	0.1m B/c yellow - khaki	5	35	50	<0.5	4	<0.005	364	
217238		900E	0.5m " cream	5	5	30	<0.5	1	<0.005	356	

SECTION 3

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 11/85 YALANDE
 PROSPECT NEWTON CRGEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY ANALYSIS
 SAMPLE TYPE SOIL Rock chip

COLLECTED BY: M LAAN.

DATE DISPATCHED:

DATE RECEIVED:

A 2835

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES							
			Cu	Pb	Zn	Ag	As	Au	Ba	
217108	30N 2750E	Soil - 0.5m C cream	5	<5	5	<0.5	1	<0.005	566	
217109	2725E	" 0.4m C "	<5	<5	10	<0.5	2	<0.005	851	
217110	2700E	" 0.5m C "	<5	<5	10	<0.5	1	<0.005	708	
217111	2675E	" 0.6m B green/bwn	<5	<5	10	<0.5	1	0.010	284	
217112	2650E	" 0.6m B cream/tan	30	55	105	<0.5	16	<0.005	414	
217113	2625E	" 0.2m C yellow clay - grey shale	10	<5	60	<0.5	4	0.005	120	
217114	2600E	" 0.4m C tan clay - "	10	10	80	<0.5	39	0.025	88	
217115	2575E	" 0.3m C cream clay	10	<5	30	<0.5	4	0.010	248	
217116	2550E	" 0.4m B/c tan - green rock	10	<5	40	<0.5	5	<0.005	229	
217117	2525E	" 0.7m C bwn clay - blue/green mat	25	<5	60	<0.5	2	0.005	27	
217118	2500E	" 0.25m C kahki clay	90	5	100	<0.5	10	<0.005	223	
217119	2475E	" 0.2m C tan clay - blue/grey shale	20	<5	65	<0.5	3	<0.005	131	
217120	2450E	" 0.55m C bwn clay - purple shale	5	<5	60	<0.5	2	<0.005	177	
217121	2425E	" 0.5m C " " " "	5	<5	50	<0.5	3	<0.005	326	
217122	2425E	Duplicate	5	<5	25	<0.5	2	<0.005	150	
217123	2400E	Soil 0.3m C purple mudst-shale	5	5	65	<0.5	2	<0.005	155	
217124	2375E	Rock chip purple shale / mudst	15	<5	165	<0.5	2	<0.005	313	
217125	2350E	" " " " "	10	<5	145	<0.5	2	<0.005	360	
217126	2325E	Soil 0.5m C purple mudst + ferrug frags	5	<5	70	<0.5	3	0.005	155	
217127	2300E	" 0.25m C " " "	10	5	110	<0.5	3	<0.005	315	
217128	2275E	" 0.4m C " " "	10	<5	70	<0.5	2	<0.005	203	

450101

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS AUST

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED M. LAAN

PROJECT EL 11/85 YOLANDE

LABORATORY ANALABS

DATE DISPATCHED:

PROSPECT NEWTON CREEK

SAMPLE TYPE Soil Rock chip.

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Cu	Pb	Zn	Ag	As	Au	Ba	
217060	32N	2175E	Soil 0.2m C cream	<5	<5	15	<0.5	1	<0.005	375	
217061		2200E	" 0.2m C tan clayey	5	10	40	<0.5	7	<0.005	386	
217062		2225E	" 0.25m B/c rock chip	25	20	60	<0.5	44	<0.005	541	
217063		2250E	alluvials Herty R w tank 0.6m A	20	10	60	<0.5	14	<0.005	341	
217064		2275E	Soil 0.2m A-C shale scree soil	150	15	105	<0.5	10	<0.005	361	
217065		2300E	Soil 0.25m A-C purple shale	15	<5	70	<0.5	3	<0.005	462	
217071		2325E	Rockchip grey shale hematitic	35	<5	80	<0.5	2	<0.005	699	
217066		2350E	Soil 0.4m C weathered shale	10	<5	50	<0.5	3	<0.005	428	
217070		2375E	Soil 0.2m C " "	10	<5	100	<0.5	2	<0.005	163	
217069		2400E	Rock chip purple shale	10	<5	140	<0.5	2	<0.005	283	
217067		2425E	Soil 0.35m C purple shale i qb chl veins	10	<5	105	<0.5	4	<0.005	185	
217068		2450E	Soil 0.2m B-C " " + clay soil	10	<5	115	<0.5	2	<0.005	231	
217072		2475E	" 0.45m brown clay	10	<5	70	<0.5	3	<0.005	186	
217073		2500E	" purple shale chloritic	20	<5	95	<0.5	3	<0.005	225	
217074		2525E	" 0.2m B/c purple shale	10	5	70	<0.5	4	<0.005	219	
217075		2550E	" 0.2m B/c " "	10	<5	75	<0.5	6	<0.005	234	
217076		2575E	" 0.35m C brn clay	10	<5	45	<0.5	4	<0.005	192	
217077		2600E	" 0.1m " "	70	<5	130	<0.5	4	<0.005	478	

150100

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT Kh 11/85 YOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALABS
 SAMPLE TYPE SOIL / ROCK CHIP

COLLECTED BY: M. LAAN.
 DATE DISPATCHED:
 DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Cu	Pb	Zn	Ag	As	Au	Ba
217078	32	2625E	Soil 0.2m C brn clay	10	5	50	<0.5	3	<0.005	191
217079		2650E	Rock + soil 0.15m C purple shale	10	5	60	<0.5	6	<0.005	217
217080		2675E	Soil 0.6m C cream brn	5	<5	30	<0.5	5	0.010	97
217081		2700E	" 0.3m C cream-green	30	<5	66	<0.5	3	<0.005	466
217082		2700E	DUPLICATE 217081.	10	<5	25	<0.5	7	<0.005	319
217083		2725E	Rock chip grey shale	20	<5	135	<0.5	77	<0.005	63
217084		2750E	Soil 0.2m C tan-green	10	25	80	<0.5	24	<0.005	48
217085		2775E	" 0.6m C cream	5	<5	5	<0.5	8	<0.005	242
217086		2800E	" B/C "	5	<5	15	<0.5	4	<0.005	596
217087		2825E	" 0.6m C "	10	<5	5	<0.5	9	<0.005	335
217088		2850E	" 0.15m C - tan	5	35	30	<0.5	16	<0.005	859
217089		2875E	" 0.3m C "	5	<10	10	<0.5	2	<0.005	269
217090		2900E	Rock chip	<5	<5	45	<0.5	6	0.005	614
217091		2925E	Soil 0.4m C cream-tan	<5	5	10	<0.5	2	<0.005	231
217092		2950E	" 0.35m C cream	<5	<5	10	<0.5	1	<0.005	406
217093		2975E	" 0.2m C cream brn	<5	<5	50	<0.5	2	0.010	163
217094		3000E	" 0.25m C "	<5	<10	10	<0.5	1	<0.005	305
217095		3025E	" 0.5m C "	<5	<5	10	<0.5	1	<0.005	635
217096		3050E	" 0.3m B/C ^{Aluv} white clay ± 9/3 frags	5	<5	10	<0.5	1	<0.005	487
217097		3075E	" 0.35m ^{Aluv} "	<5	<5	20	<0.5	2	<0.005	421
217098		3100E	" 0.4m C cream clay	<5	<5	15	<0.5	1	<0.005	754

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS AUST
 PROJECT EL 11/85 YOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY ANALABS
 SAMPLE TYPE SOIL Rock chip WACKA

COLLECTED BY: M. LAAN

DATE DISPATCHED:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Cu	Pb	Zn	Ag	As	Au	Ba
217099	32N	312SE	Soil 0.5m "C" cream	<5	<5	30	<0.5	1	<0.005	226
217100		3150E	" A-C peak on bedrock no soil	5	<5	30	<0.5	1	<0.005	500
217101		317SE	" 0.7m B/C cream	5	95	95	<0.5	2	0.005	1560
217102		317SE	Duplicate	5	55	85	<0.5	1	<0.005	1390
217103		3200E	Soil 0.5m "B" brn - 9% gravel	5	<5	<5	<0.5	1	<0.005	24
217104		322SE	" 0.6m " " " "	5	<5	<5	<0.5	1	<0.005	56
217105		3250E	" 0.7m " cream - " "	5	<5	<5	<0.5	1	<0.005	168
217106		327SE	" 0.8m " " "	10	50	25	<0.5	6	<0.005	354
217107		3300E	" 0.5m B/C dk brn	10	55	25	<0.5	6	<0.005	119

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ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT EL 11/85 YOLANDE
 PROSPECT NEWTON CREEK

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALABS
 SAMPLE TYPE WALKER

COLLECTED BY: N Poltock
 DATE DISPATCHED:
 DATE RECEIVED:

A 2830

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES								
				W	Pb	Zn	Ag	As	Au	Ba		
217357	32N	3487.5E	1.0m Green - pink felsic volcanic	50	<5	55	<0.5	1	<.005	1240		
		3475E	2.5m Glaciolo no sample									
217358		3462.5E	3.2m Graphitic schist minor pyrite	65	195	550	2.0	140	<.005	878		
217359		3450E	3.0m < chl volc grey green feld st.	15	40	100	<0.5	2	<.005	809		
217360		3437.5E	3.8m	10	25	100	0.5	1	<.005	361		
217361		3425E	4.0m	15	160	85	2.0	3	<.005	739		
217362		3412.5E	4.2m	15	35	35	0.5	8	<.005	205		
217363		3400E	Rock chip - felsic volc	10	<5	30	0.5	<1	<.005	1520		
217364		3387.5E	0.8m Glaciolo	10	<5	50	<0.5	2	<.005	884		
217365		3375E	1.3m Volc grey-green	5	<5	55	<0.5	2	<.005	1240		
217366		3362.5E	2.5m	<5	<5	90	1.0	<1	<.005	1100		
217367		3350E	4.2m Volclastic cream-brn	25	140	170	1.0	4	<.005	689		
217368		3337.5E	5.3m Volc < chl fine pyrite	25	45	140	<0.5	6	<.005	1420		
		3325E	6.8m broken rods no sample									
217369		3312.5E	2.9m	20	15	160	<0.5	3	<.005	798		

759109

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759111

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

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01/12/87

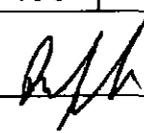
00315

3 OF 3

TUBE No.	SAMPLE No.		Cu	Pb	Zn	Ag	As	Au	Ba	
1	217368		25	45	140	<0.5	6	<0.005	1420	
2	217369		20	15	160	<0.5	3	<0.005	798	
3	217401		60	<5	60	<0.5	14	<0.005	288	
4	217402		45	<5	55	<0.5	11	<0.005	297	
5	217403		130	25	90	<0.5	16	<0.005	417	
6	217404		45	30	80	<0.5	28	<0.005	216	
7	217405		50	15	65	<0.5	13	<0.005	481	
8	217406		25	10	80	<0.5	11	<0.005	521	
9	217407		10	<5	15	<0.5	22	<0.005	308	
10	217408		35	125	140	1.0	13	<0.005	536	
11	217409		25	10	110	<0.5	9	<0.005	201	
12	217410		405	95	765	<0.5	42	<0.005	445	
13	217411		25	105	75	<0.5	25	<0.005	336	
14	217412		35	70	195	<0.5	15	<0.005	810	
15	217413		45	115	120	0.5	16	<0.005	357	
16	217414		25	30	85	<0.5	6	<0.005	350	
17	217415		15	25	70	0.5	3	<0.005	323	
18	217416		10	5	15	0.5	2	<0.005	156	
19	217417		20	<5	75	<0.5	1	<0.005	265	
20	217418		15	<5	55	0.5	1	<0.005	194	
21	217419		30	<5	120	<0.5	2	<0.005	156	
22	217420		15	<5	90	1.0	2	<0.005	232	
23	DETECTION		5	5	5	0.5	1	0.005	10	
24	UNITS		PPM	PPM	PPM	PPM	PPM	PPM	PPM	
25	METHOD		101	101	101	101	114	313	401	

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 -- = element not determined

AUTHORISED OFFICER



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759113

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No

PAGE

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	AuChk	Ba		
		7.5.08.04985				17/12/87	E00320		1 OF 2		
1	217370	10	70	55	<0.5	11	<0.005	-	608		
2	217371	5	95	220	<0.5	13	<0.005	-	358		
3	217372	5	45	120	<0.5	11	<0.005	-	72		
4	217374	<5	40	175	1.0	19	<0.005	-	<10		
5	217375	<5	35	40	0.5	220	<0.005	-	11		
6	217376	5	35	25	<0.5	27	<0.005	-	33		
7	217377	<5	35	20	<0.5	14	<0.005	-	43		
8	217378	<5	30	25	<0.5	11	<0.005	-	41		
9	217379	<5	15	80	<0.5	14	<0.005	-	25		
10	217380	30	20	10	<0.5	18	<0.005	-	447		
11	217381	<5	10	<5	0.5	6	<0.005	-	547		
12	217382	10	30	45	<0.5	8	<0.005	-	662		
13	217383	30	30	40	0.5	7	<0.005	-	665		
14	217384	<5	25	40	<0.5	5	<0.005	-	417		
15	217385	15	40	70	<0.5	7	<0.005	-	243		
16	217386	<5	30	55	1.0	6	<0.005	-	281		
17	217387	<5	30	40	<0.5	7	<0.005	-	411		
18	217388	<5	25	35	<0.5	7	<0.005	<0.005	367		
19	217389	30	30	40	<0.5	7	<0.005	-	235		
20	217390	60	30	50	<0.5	16	<0.005	-	311		
21	217391	2700	30	90	<0.5	10	<0.005	-	220		
22	217393	30	30	50	<0.5	6	<0.005	-	260		
23	217394	<5	30	30	0.5	6	<0.005	-	340		
24	217395	<5	25	30	<0.5	5	<0.005	-	359		
25	217396	<5	30	30	<0.5	6	<0.005	-	290		

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

AUTHORISED OFFICER:

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759114

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

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17/12/87

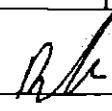
E00320

2 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	AuChk	Ba	
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22	DETECTION	5	5	5	0.5	1	0.005	0.005	10	
23	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
24	METHOD	101	101	101	101	114	313	313	401	
25										

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 — = element not determined

AUTHORISED OFFICER



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ANALABS

759115

Phone (09) 458 7999

A division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

<p style="font-size: small;">Dynamis Mineral 52 Murray Road, Welshpool W.A. 6106 Tel: (09) 458 7999</p>	ORDER No.	PROJECT
	DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No OF SAMPLES
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STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS			
			DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD
		21006	RO									
		21007	RO									

RESULTS TO	<p style="font-size: small;">G. Bushnell Dynamis Mineral 52 Murray Road Welshpool W.A. 6106</p>	REMARKS
RESULTS TO	<p style="font-size: small;">D. MacKinnon Dynamis Mineral 52 Murray Road Welshpool W.A. 6106</p>	

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock Ro	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration TTN
water WA	HF under pressure A7	other chemicals means CHEM
tissue TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		inductively coupled plasma ICP

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759116

ANALYTICAL DATA

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CLIENT ORDER No.

PAGE

7.5.08.04982

17/12/87

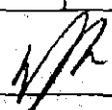
E00318

1 OF 10

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba		
1	217421	15	110	50	<0.5	9	<0.005	808		
2	217422	10	70	20	0.5	8	<0.005	762		
3	217423	10	60	25	1.0	8	<0.005	655		
4	217424	10	90	200	1.0	7	<0.005	1030		
5	217425	<5	20	20	1.0	2	<0.005	790		
6	217426	<5	10	15	0.5	1	<0.005	1020		
7	217427	5	15	10	<0.5	2	<0.005	389		
8	217428	5	35	10	2.0	1	<0.005	1090		
9	217429	5	15	10	1.0	2	<0.005	860		
10	217430	10	10	25	0.5	2	<0.005	1350		
11	217431	5	10	10	<0.5	1	<0.005	1050		
12	217432	10	10	10	0.5	1	<0.005	628		
13	217433	10	15	10	1.0	1	<0.005	672		
14	217434	20	15	10	1.0	2	<0.005	856		
15	217435	20	30	40	1.0	11	<0.005	715		
16	217436	15	30	30	1.0	11	<0.005	650		
17	217437	25	60	55	0.5	21	<0.005	728		
18	217438	15	25	20	0.5	15	<0.005	543		
19	217439	20	20	15	0.5	6	<0.005	515		
20	217440	10	10	15	1.0	2	<0.005	444		
21	217441	15	15	30	<0.5	1	<0.005	504		
22	217442	25	15	30	<0.5	1	<0.005	400		
23	217443	15	10	10	<0.5	1	<0.005	41		
24	217444	15	10	15	1.0	1	<0.005	30		
25	217445	35	15	10	0.5	2	<0.005	22		

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
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759117

ANALYTICAL DATA

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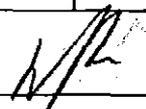
CLIENT ORDER No.

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		7.5.08.04982				17/12/87		E00318		2 OF 10	
TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba			
1	217446	5	10	20	<0.5	1	<0.005	94			
2	217447	10	5	15	<0.5	1	<0.005	147			
3	217448	55	45	95	1.5	8	<0.005	156			
4	217449	45	30	50	1.0	7	<0.005	130			
5	217450	30	40	85	1.0	5	<0.005	215			
6	217501	15	30	75	0.5	5	<0.005	140			
7	217502	15	25	45	0.5	2	<0.005	154			
8	217503	40	25	40	1.0	3	<0.005	92			
9	217504	75	40	100	1.0	4	<0.005	166			
10	217505	10	15	30	0.5	1	<0.005	90			
11	217506	10	10	30	<0.5	2	<0.005	17			
12	217507	5	15	25	0.5	1	<0.005	42			
13	217508	50	30	75	<0.5	6	<0.005	74			
14	217509	455	40	150	<0.5	7	<0.005	228			
15	217510	220	35	90	<0.5	17	<0.005	297			
16	217511	15	100	80	1.5	34	<0.005	400			
17	217512	5	50	20	0.5	15	<0.005	389			
18	217513	5	15	20	1.0	1	<0.005	465			
19	217514	5	5	15	1.5	<1	<0.005	140			
20	217515	5	10	20	1.0	1	<0.005	593			
21	217516	<5	15	20	0.5	1	<0.005	955			
22	217517	5	25	15	<0.5	1	<0.005	615			
23	217518	5	20	10	<0.5	1	<0.005	363			
24	217519	5	25	15	<0.5	7	<0.005	581			
25	217520	15	45	45	1.0	23	<0.005	772			

Results in ppm unless otherwise specified
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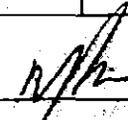


ANALYTICAL DATA

SAMPLE PREFIX		REPORT NUMBER				REPORT DATE		CLIENT ORDER No.		PAGE	
		7.5.08.04982				17/12/87		E00316		3 OF 10	
TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba			
1	217521	10	45	60	0.5	10	<0.005	932			
2	217522	15	40	40	0.5	6	<0.005	639			
3	217523	15	55	50	0.5	8	<0.005	649			
4	217524	10	25	35	<0.5	4	<0.005	633			
5	217525	20	35	40	0.5	8	<0.005	593			
6	217526	25	40	40	0.5	9	<0.005	751			
7	217527	15	40	30	0.5	9	<0.005	731			
8	217528	10	30	25	<0.5	4	<0.005	717			
9	217529	5	15	10	<0.5	1	<0.005	682			
10	217530	10	20	10	<0.5	2	<0.005	1170			
11	217531	5	15	15	<0.5	1	<0.005	669			
12	217532	5	15	5	<0.5	<1	<0.005	429			
13	217533	<5	10	5	<0.5	<1	<0.005	388			
14	217534	<5	20	10	0.5	1	<0.005	805			
15	217535	<5	20	10	<0.5	<1	<0.005	868			
16	217536	<5	15	10	0.5	<1	<0.005	658			
17	217537	<5	15	10	0.5	<1	<0.005	1110			
18	217538	5	25	15	<0.5	3	<0.005	965			
19	217539	<5	25	15	0.5	<1	<0.005	1080			
20	217540	5	10	10	<0.5	<1	<0.005	498			
21	217541	15	40	35	0.5	9	<0.005	671			
22	217542	5	10	10	<0.5	<1	<0.005	723			
23	217543	15	25	40	<0.5	6	<0.005	703			
24	217544	5	15	5	<0.5	<1	<0.005	101			
25	217545	10	30	25	<0.5	2	<0.005	578			

Results in ppm unless otherwise specified
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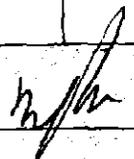
E00318

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TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba		
1	217546	5	30	40	<0.5	4	<0.005	624		
2	217547	10	25	50	<0.5	3	<0.005	595		
3	217548	15	15	25	<0.5	1	<0.005	712		
4	217549	5	15	10	<0.5	3	<0.005	772		
5	217550	5	10	5	<0.5	1	<0.005	82		
6	217551	20	40	35	1.5	6	<0.005	157		
7	217552	25	40	40	1.0	6	<0.005	206		
8	217553	30	40	55	1.5	8	<0.005	174		
9	217554	15	35	40	0.5	6	<0.005	133		
10	217555	45	35	75	1.0	8	<0.005	294		
11	217556	35	30	40	1.0	6	<0.005	211		
12	217557	30	30	75	1.5	6	<0.005	328		
13	217558	10	25	20	1.0	5	<0.005	146		
14	217559	10	25	30	0.5	5	<0.005	148		
15	217560	15	30	30	<0.5	9	<0.005	127		
16	217561	15	30	30	1.0	8	<0.005	106		
17	217562	35	35	55	1.0	8	<0.005	145		
18	217563	5	25	10	0.5	7	<0.005	142		
19	217564	5	15	20	<0.5	7	<0.005	146		
20	217565	25	685	760	1.5	21	<0.005	561		
21	217566	5	30	15	0.5	12	<0.005	323		
22	217567	<5	15	10	<0.5	3	<0.005	234		
23	217568	5	30	15	<0.5	23	<0.005	256		
24	217569	<5	20	15	<0.5	5	<0.005	374		
25	217570	<5	15	15	<0.5	3	<0.005	463		

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759120

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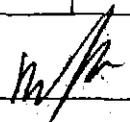
E00318

5 OF 10

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba		
1	217571	<5	20	15	<0.5	2	<0.005	435		
2	217572	<5	30	15	<0.5	21	<0.005	448		
3	217573	<5	15	10	<0.5	3	<0.005	423		
4	217574	<5	25	15	<0.5	4	<0.005	505		
5	217575	<5	20	20	1.0	<1	<0.005	1130		
6	217576	<5	10	10	0.5	<1	<0.005	525		
7	217577	<5	15	15	1.0	1	<0.005	1020		
8	217578	<5	20	15	<0.5	<1	<0.005	754		
9	217579	<5	15	10	0.5	<1	<0.005	571		
10	217580	5	15	15	1.0	1	<0.005	763		
11	217581	<5	20	15	1.0	<1	<0.005	670		
12	217582	5	20	60	1.0	2	<0.005	1130		
13	217583	<5	25	30	0.5	2	<0.005	1080		
14	217584	10	20	15	0.5	1	<0.005	212		
15	217585	20	55	105	<0.5	4	<0.005	1290		
16	217586	65	60	135	<0.5	14	<0.005	667		
17	217587	5	15	10	0.5	3	<0.005	136		
18	217588	55	155	170	<0.5	3	<0.005	434		
19	217589	10	30	30	0.5	4	<0.005	99		
20	217590	5	20	25	0.5	2	<0.005	444		
21	217591	45	65	255	0.5	3	<0.005	130		
22	217592	15	50	25	0.5	6	<0.005	212		
23	217593	5	30	15	<0.5	3	<0.005	482		
24	217594	15	30	40	0.5	45	<0.005	736		
25	217595	5	20	20	0.5	4	<0.005	461		

Results in ppm unless otherwise specified
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759121

ANALYTICAL DATA

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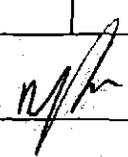
E00318

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TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba		
1	217596	15	25	40	0.5	11	<0.005	680		
2	217597	10	25	15	<0.5	4	<0.005	428		
3	217598	5	10	5	<0.5	2	<0.005	185		
4	217600	150	190	915	<0.5	48	<0.005	189		
5	217601	140	250	820	<0.5	34	<0.005	61		
6	217602	35	80	160	<0.5	34	<0.005	43		
7	217603	40	115	155	<0.5	39	<0.005	39		
8	217604	55	110	95	0.5	67	<0.005	79		
9	217605	10	30	30	0.5	4	<0.005	213		
10	217606	10	20	15	0.5	4	<0.005	816		
11	217607	10	15	15	<0.5	3	<0.005	1010		
12	217608	10	35	60	0.5	6	<0.005	745		
13	217609	10	40	65	0.5	6	<0.005	866		
14	217610	10	35	95	0.5	2	<0.005	613		
15	217611	15	40	110	1.5	1	<0.005	685		
16	217612	10	15	10	<0.5	<1	<0.005	927		
17	217613	10	20	15	0.5	1	<0.005	533		
18	217614	5	10	10	0.5	<1	<0.005	1020		
19	217615	10	15	30	<0.5	1	<0.005	1040		
20	217616	10	25	65	<0.5	3	<0.005	676		
21	217617	<5	15	45	0.5	4	<0.005	690		
22	217618	5	15	10	0.5	1	<0.005	680		
23	217619	35	110	230	1.5	30	<0.005	457		
24	217620	<5	20	15	0.5	1	<0.005	867		
25	217621	5	15	10	0.5	<1	<0.005	648		

Results in ppm unless otherwise specified
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ANALYTICAL DATA

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REPORT NUMBER

REPORT DATE

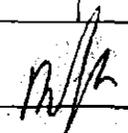
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SAMPLE PREFIX		REPORT NUMBER				REPORT DATE		CLIENT ORDER No.		PAGE	
		7.5.08.04982				17/12/87		E00318		7 OF 10	
TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba			
1	217622	<5	15	15	1.0	1	<0.005	493			
2	217623	5	25	25	1.0	<1	<0.005	493			
3	217624	5	25	20	0.5	1	<0.005	652			
4	217625	<5	15	15	0.5	<1	<0.005	680			
5	217626	5	10	15	1.0	1	<0.005	639			
6	217627	<5	10	15	0.5	<1	<0.005	723			
7	217628	<5	10	10	0.5	1	<0.005	603			
8	217629	5	10	10	0.5	2	<0.005	249			
9	217630	<5	15	15	0.5	2	<0.005	342			
10	217631	10	45	130	0.5	10	<0.005	538			
11	217632	5	30	20	0.5	3	<0.005	217			
12	217633	5	30	50	1.0	<1	<0.005	555			
13	217634	15	75	15	1.0	2	<0.005	110			
14	217635	5	10	15	<0.5	1	<0.005	118			
15	217636	<5	10	20	1.0	1	<0.005	686			
16	217637	<5	5	10	0.5	1	<0.005	198			
17	217638	<5	<5	10	<0.5	1	<0.005	274			
18	217639	10	30	15	0.5	7	<0.005	192			
19	217640	<5	10	15	0.5	1	<0.005	688			
20	217641	15	30	50	0.5	4	<0.005	596			
21	217642	5	5	10	<0.5	1	<0.005	125			
22	217643	5	5	10	<0.5	1	<0.005	93			
23	217644	5	10	20	0.5	2	<0.005	455			
24	217645	<5	5	10	0.5	2	<0.005	145			
25	217646	5	10	20	0.5	2	<0.005	572			

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759123

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ANALYTICAL DATA

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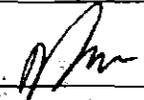
E00318

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TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba		
1	217647	15	20	50	1.0	2	<0.005	574		
2	217648	5	20	20	0.5	3	<0.005	1330		
3	217649	20	40	85	1.0	15	<0.005	1200		
4	217650	10	5	15	0.5	2	<0.005	182		
5	217652	<5	5	15	0.5	1	<0.005	332		
6	217653	5	5	30	0.5	8	<0.005	367		
7	217654	<5	10	10	<0.5	1	<0.005	305		
8	217655	5	<5	10	<0.5	1	<0.005	157		
9	217656	<5	10	15	0.5	10	<0.005	248		
10	217657	<5	10	10	1.0	2	<0.005	251		
11	217658	5	10	10	<0.5	1	<0.005	518		
12	217659	5	10	10	<0.5	2	<0.005	368		
13	217660	10	10	10	<0.5	2	<0.005	281		
14	217661	<5	10	5	<0.5	2	<0.005	391		
15	217662	5	5	10	<0.5	2	<0.005	285		
16	217663	10	45	35	<0.5	14	<0.005	404		
17	217664	5	20	15	<0.5	4	<0.005	649		
18	217665	10	30	20	0.5	10	<0.005	675		
19	217666	<5	10	15	<0.5	4	<0.005	331		
20	217667	5	20	10	0.5	7	<0.005	522		
21	217668	<5	10	10	0.5	3	<0.005	643		
22	217669	<5	10	15	<0.5	4	<0.005	474		
23	217670	10	20	30	<0.5	6	<0.005	658		
24	217671	<5	10	10	<0.5	4	<0.005	93		
25	217672	<5	15	20	0.5	5	<0.005	759		

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759124

ANALYTICAL DATA

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		7.5.08.04982				17/12/87		E00318		9 OF 10	
TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba			
1	217673	5	20	60	1.0	6	<0.005	826			
2	217674	<5	20	20	0.5	5	<0.005	410			
3	217675	<5	15	10	0.5	6	<0.005	394			
4	217676	5	20	20	<0.5	8	<0.005	536			
5	217677	10	25	20	1.0	19	<0.005	719			
6	217678	5	25	15	0.5	7	<0.005	278			
7	217679	10	20	10	0.5	6	<0.005	481			
8	217680	5	15	5	<0.5	5	<0.005	94			
9	217681	5	20	10	<0.5	14	<0.005	205			
10	217682	20	50	20	1.0	9	<0.005	94			
11	217683	5	20	5	0.5	5	<0.005	29			
12	217684	10	30	10	<0.5	13	<0.005	76			
13	217685	5	30	30	1.0	27	<0.005	366			
14	217686	15	40	25	<0.5	17	<0.005	326			
15	217687	5	<5	10	1.0	6	<0.005	98			
16	217688	<5	15	10	<0.5	7	<0.005	232			
17	217689	<5	10	10	1.0	3	<0.005	214			
18	217690	30	40	45	1.0	12	<0.005	327			
19	217691	10	30	25	0.5	13	<0.005	98			
20	217692	5	20	15	0.5	5	<0.005	363			
21	217693	65	50	120	<0.5	14	<0.005	973			
22	217694	5	20	20	1.0	6	<0.005	257			
23	217695	5	10	5	<0.5	5	<0.005	104			
24	217696	30	30	50	0.5	9	<0.005	756			
25	217697	10	30	25	<0.5	11	<0.005	145			

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 -- = element not determined

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

759125

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

SAMPLE PREFIX		REPORT NUMBER				REPORT DATE	CLIENT ORDER No.			PAGE	
		7.5.08.04982				17/12/87	E00318			10 OF 10	
TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba			
1	217698	5	15	10	<0.5	7	0.005	106			
2	217699	5	10	10	<0.5	10	0.005	57			
3	217700	5	10	15	<0.5	7	0.005	72			
4	217702	5	30	20	<0.5	9	0.005	84			
5											
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20											
21											
22											
23	DETECTION	5	5	5	0.5	1	0.005	10			
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM			
25	METHOD	101	101	101	101	114	313	401			

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
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 - = element not determined

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759126

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

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7.5.08.04922

01/12/87

00315

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TUBE No.	SAMPLE No.		Cu	Pb	Zn	Ag	As	Au	Ba	
1	217233		<5	<5	15	<0.5	4	<0.005	56	
2	217234		10	<5	100	<0.5	1	<0.005	195	
3	217235		120	5	130	<0.5	1	<0.005	75	
4	217236		25	<5	155	<0.5	2	<0.005	237	
5	217237		25	<5	90	<0.5	1	<0.005	54	
6	217238		5	5	30	<0.5	1	<0.005	356	
7	217239		5	35	50	<0.5	4	<0.005	364	
8	217240		<5	5	25	<0.5	1	<0.005	169	
9	217241		<5	<5	15	<0.5	<1	<0.005	239	
10	217242		25	<5	65	<0.5	5	<0.005	226	
11	217243		20	<5	60	0.5	23	<0.005	298	
12	217244		20	5	85	<0.5	15	<0.005	52	
13	217245		145	5	45	<0.5	16	<0.005	161	
14	217246		65	10	40	<0.5	28	<0.005	146	
15	217247		35	<5	40	<0.5	13	<0.005	154	
16	217248		60	<5	45	<0.5	12	<0.005	164	
17	217249		45	<5	75	<0.5	10	<0.005	258	
18	217250		60	<5	90	<0.5	11	<0.005	285	

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ANALYTICAL DATA

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01/12/87

00315

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TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba
----------	------------	----	----	----	----	----	----	----

9	217351	10	15	30	1.5	3	<0.005	378
10	217352	5	<5	20	<0.5	7	<0.005	139
11	217353	5	<5	45	0.5	9	<0.005	211
12	217354	5	<5	30	<0.5	9	<0.005	393
13	217355	25	<5	20	<0.5	1	<0.005	390
14	217356	50	15	60	<0.5	27	<0.005	280
15	217357	50	<5	55	<0.5	1	<0.005	1240
16	217358	65	195	550	2.0	140	<0.005	878
17	217359	15	40	100	<0.5	2	<0.005	809
18	217360	10	25	100	0.5	1	<0.005	361
19	217361	15	160	85	2.0	3	<0.005	739
20	217362	15	35	35	0.5	8	<0.005	205
21	217363	10	<5	30	0.5	<1	<0.005	1520
22	217364	10	<5	50	<0.5	2	<0.005	884
23	217365	5	<5	55	<0.5	2	<0.005	1280
24	217366	<5	<5	90	1.0	<1	<0.005	1100
25	217367	25	140	170	1.0	4	<0.005	689

Results in ppm, unless otherwise specified.
 13: element present; but concentration too low to measure.
 <: element concentration is below detection limit.
 -: element not determined.

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ANALABS

759128

Phone (09) 458 7999

A Division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

FAX: 004 31 8290

ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.

PROJECT

DATE RECEIVED

RESULTS REQUIRED

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

STATE OF SAMPLE	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS				
			DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
		17101194	50								Cu, Pb, Zn, Cd, Ni		
		17101195	50								As/314		
		17101196	50								As/315		
		17101197	50								Ba/401		
		17101198	50								Au, Hg/313		

RESULTS

TO

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RESULTS

TO

...

REMARKS

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock Ro	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration TTN
water WA	HF under pressure A7	other chemicals means CHEM
tissue TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		Inductively coupled plasma ICP

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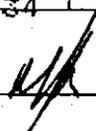
759129

ANALYTICAL DATA

SAMPLE PREFIX		REPORT NUMBER				REPORT DATE		CLIENT ORDER No.		PAGE	
		7.5.08.04860				11/11/87		3462		1 OF 6	
TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	AuChk	Ba		
1	217051	10	35	75	<0.5	1	<0.005	-	1500		
2	217052	5	25	100	<0.5	2	<0.005	-	1350		
3	217053	5	<5	30	<0.5	1	<0.005	-	801		
4	217054	5	<5	10	<0.5	1	<0.005	-	92		
5	217055	5	<5	15	<0.5	1	<0.005	-	120		
6	217056	5	20	125	<0.5	1	<0.005	-	1640		
7	217057	5	<5	20	<0.5	2	<0.005	-	1240		
8	217058	10	<5	80	<0.5	1	<0.005	<0.005	1490		
9	217059	5	<5	20	<0.5	1	<0.005	<0.005	491		
10	217060	<5	<5	15	<0.5	1	<0.005	-	375		
11	217061	5	10	40	<0.5	7	<0.005	-	386		
12	217062	25	20	60	<0.5	44	<0.005	-	541		
13	217063	20	10	60	<0.5	14	<0.005	-	341		
14	217064	150	15	105	<0.5	10	<0.005	-	361		
15	217065	15	<5	70	<0.5	3	<0.005	-	462		
16	217066	10	<5	50	<0.5	3	<0.005	-	428		
17	217067	10	<5	105	<0.5	4	<0.005	-	185		
18	217068	10	<5	115	<0.5	2	<0.005	-	231		
19	217069	10	<5	140	<0.5	2	<0.005	<0.005	283		
20	217070	10	<5	100	<0.5	2	<0.005	-	163		
21	217071	35	<5	80	<0.5	2	<0.005	-	699		
22	217072	10	<5	70	<0.5	3	<0.005	-	186		
23	217073	20	<5	95	<0.5	3	<0.005	-	225		
24	217074	10	5	70	<0.5	4	<0.005	-	219		
25	217075	10	<5	75	<0.5	6	<0.005	-	234		

Results in ppm unless otherwise specified
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ANALYTICAL DATA

SAMPLE PREFIX

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11/11/87

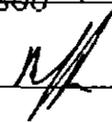
3462

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TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	AuChk	Ba
1	217076	10	<5	45	<0.5	4	<0.005	-	192
2	217077	70	<5	130	<0.5	4	<0.005	-	478
3	217078	10	5	50	<0.5	3	<0.005	-	191
4	217079	10	5	60	<0.5	6	<0.005	-	217
5	217080	5	<5	30	<0.5	5	0.010	-	97
6	217081	30	<5	65	<0.5	3	<0.005	-	466
7	217082	10	<5	25	<0.5	7	<0.005	-	319
8	217083	20	<5	135	<0.5	77	<0.005	-	63
9	217084	10	25	80	<0.5	24	<0.005	<0.005	48
10	217085	5	<5	5	<0.5	8	<0.005	-	242
11	217086	5	<5	15	<0.5	4	<0.005	-	596
12	217087	10	<5	5	<0.5	9	<0.005	-	335
13	217088	5	35	30	<0.5	16	<0.005	<0.005	859
14	217089	5	<5	10	<0.5	2	<0.005	-	269
15	217090	<5	<5	45	<0.5	6	0.005	-	614
16	217091	<5	5	10	<0.5	2	<0.005	-	231
17	217092	<5	<5	10	<0.5	1	<0.005	-	406
18	217093	<5	<5	50	<0.5	2	0.010	-	163
19	217094	<5	<5	10	<0.5	1	<0.005	<0.005	305
20	217095	<5	<5	10	<0.5	1	<0.005	-	635
21	217096	5	<5	10	<0.5	1	<0.005	-	487
22	217097	<5	<5	20	<0.5	2	<0.005	-	421
23	217098	<5	<5	15	<0.5	1	<0.005	-	754
24	217099	<5	<5	30	<0.5	1	<0.005	-	726
25	217100	5	<5	30	<0.5	1	<0.005	-	500

Results in ppm unless otherwise specified
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759131

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TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	AuChk	Ba
1	217101	5	95	95	<0.5	2	0.005	-	1560
2	217102	5	55	85	<0.5	1	0.005	-	1390
3	217103	5	<5	<5	<0.5	1	0.005	-	24
4	217104	5	<5	<5	<0.5	1	0.005	-	56
5	217105	5	<5	<5	<0.5	1	0.005	-	168
6	217106	10	50	25	<0.5	6	0.005	-	354
7	217107	10	55	25	<0.5	6	0.005	-	119
8	217108	5	<5	5	<0.5	1	0.005	0.005	566
9	217109	<5	<5	10	<0.5	2	0.005	-	851
10	217110	<5	<5	10	<0.5	1	0.005	0.005	708
11	217111	<5	<5	10	<0.5	1	0.010	-	284
12	217112	30	55	105	<0.5	16	0.005	-	414
13	217113	10	<5	60	<0.5	4	0.005	-	120
14	217114	10	10	80	<0.5	39	0.025	-	88
15	217115	10	<5	30	<0.5	4	0.010	-	248
16	217116	10	<5	40	<0.5	5	0.005	-	229
17	217117	25	<5	60	<0.5	2	0.005	-	27
18	217118	90	5	100	<0.5	10	0.005	-	223
19	217119	20	<5	65	<0.5	3	0.005	0.005	131
20	217120	5	<5	60	<0.5	2	0.005	-	177
21	217121	5	<5	50	<0.5	3	0.005	-	326
22	217122	5	<5	25	<0.5	2	0.005	-	150
23	217123	5	5	65	<0.5	2	0.005	-	155
24	217124	15	<5	165	<0.5	2	0.005	-	313
25	217125	10	<5	145	<0.5	2	0.005	-	360

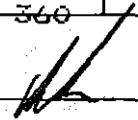
Results in ppm unless otherwise specified

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ANALYTICAL DATA

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TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	AuChk	Ba
1	217126	5	<5	70	<0.5	3	0.005	-	155
2	217127	10	5	110	<0.5	3	0.005	-	315
3	217128	10	<5	70	<0.5	2	0.005	0.005	203
4	217129	25	5	70	<0.5	10	0.005	-	200
5	217130	20	<5	45	<0.5	3	0.005	-	157
6	217131	10	<5	25	<0.5	3	0.005	-	255
7	217132	10	<5	35	<0.5	3	0.005	-	144
8	217133	10	20	70	<0.5	6	0.005	-	46
9	217134	45	20	95	<0.5	31	0.005	-	119
10	217135	40	20	105	<0.5	10	0.005	0.005	224
11	217136	40	5	215	<0.5	24	0.005	-	67
12	217137	5	<5	45	<0.5	2	0.005	0.005	731
13	217138	5	<5	45	<0.5	2	0.005	-	735
14	217139	<5	<5	25	<0.5	1	0.005	-	371
15	217140	10	<5	60	<0.5	1	0.005	-	626
16	217141	95	<5	50	<0.5	10	0.005	-	321
17	217142	75	<5	80	<0.5	18	0.005	-	83
18	217143	20	15	80	1.5	6	0.005	-	75
19	217144	70	<5	100	<0.5	4	0.005	-	327
20	217145	30	10	35	<0.5	3	0.020	-	200
21	217146	25	5	115	<0.5	4	0.005	-	379
22	217147	<5	<5	5	<0.5	1	0.005	0.005	22
23	217148	40	35	95	<0.5	16	0.005	-	285
24	217149	10	<5	45	0.5	5	0.005	-	353
25	217150	20	10	30	<0.5	5	0.005	-	127

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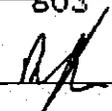
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TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	AuChk	Ba	
1	217151	10	<5	40	<0.5	3	<0.005		122	
2	217152	45	<5	125	<0.5	4	0.005		171	
3	217153	65	20	115	<0.5	8	<0.005		208	
4	217154	30	20	100	<0.5	9	<0.005		175	
5	217155	85	<5	85	<0.5	8	<0.005		261	
6	217156	10	<5	120	<0.5	3	<0.005		306	
7	217157	15	<5	125	<0.5	4	<0.005	<0.005	321	
8	217158	25	<5	95	<0.5	5	<0.005		199	
9	217159	25	<5	75	<0.5	12	<0.005		186	
10	217160	10	<5	60	<0.5	3	<0.005		229	
11	217161	5	<5	50	<0.5	3	<0.005		210	
12	217162	20	<5	60	<0.5	4	<0.005		223	
13	217163	15	<5	80	<0.5	4	<0.005		254	
14	217164	15	<5	70	<0.5	5	0.015		230	
15	217165	20	<5	70	<0.5	5	<0.005		256	
16	217166	10	<5	20	<0.5	5	<0.005	<0.005	145	
17	217167	10	<5	20	<0.5	7	<0.005	<0.005	33	
18	217168	5	<5	35	<0.5	22	<0.005		201	
19	217169	15	30	160	0.5	5	<0.005		89	
20	217170	15	<5	30	<0.5	4	<0.005		77	
21	217171	20	20	30	<0.5	11	<0.005		49	
22	217172	10	60	130	<0.5	39	<0.005		1240	
23	217173	5	5	15	<0.5	10	<0.005		764	
24	217174	10	5	15	<0.5	6	<0.005		697	
25	217175	5	<5	10	<0.5	2	<0.005		603	

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

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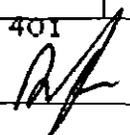
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TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	AuChk	Ba	OF
		7.5.08.04860				11/11/97		3462		6
		8								
1	217176	5	10	5	<0.5	1	0.005	-	781	
2	217177	5	5	10	<0.5	1	0.005	-	1040	
3	217178	5	5	5	<0.5	1	0.005	-	592	
4	217179	5	10	10	<0.5	1	0.005	-	767	
5	217180	5	5	10	<0.5	1	0.005	-	967	
6	217181	5	5	5	<0.5	1	0.005	-	829	
7	217182	10	20	10	<0.5	1	0.005	-	1190	
8	217183	5	10	5	<0.5	1	0.005	-	810	
9	217184	10	20	90	<0.5	1	0.005	-	331	
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	0.5	1	0.005	0.005	10	
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
25	METHOD	101	101	101	101	114	313	313	401	

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

AUTHORISED OFFICER



134

ANALABS

759135

Phone (09) 458 7999

A division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

FAX: 004 31 8890

ANALYTICAL REPORT No.

759135 04907

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.

PROJECT

ANALABS
52 Murray Road
Welshpool, W.A. 6106
Phone (09) 458 7999
FAX: 004 31 8890

DATE RECEIVED	RESULTS REQUIRED

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

STATE OF SAMPLE

PRE-TREATMENT

ANALYSIS

REFER BELOW

SAMPLE NUMBERS

DRY

CRUSH

SPLIT

PUL-VERSE

SIEVE

OTHER SEE REMARKS

NONE

REFER TO ANALYSIS SECTION

PREPARATION

METHOD

01001

DRY CRUSH SPLIT PUL-VERSE SIEVE OTHER SEE REMARKS NONE

Ca, Pb, Zn, Ag, 10, 10, 10, 10

01002

DRY CRUSH SPLIT PUL-VERSE SIEVE OTHER SEE REMARKS NONE

Se, As, Ag, 10, 10, 10

01003

DRY CRUSH SPLIT PUL-VERSE SIEVE OTHER SEE REMARKS NONE

Pb, Zn, Ag, 10, 10, 10

RESULTS

TO

ANALABS
52 Murray Road
Welshpool, W.A. 6106
Phone (09) 458 7999
FAX: 004 31 8890

RESULTS

TO

REMARKS

STATE OF SAMPLES

ANALYSIS — PREPARATION

ANALYSIS — METHOD

whole core WC
split core SC
cutting CU
rock Ro
soil SO
pulp PU
water WA
tissue TI
stream sediment SS
heavy mineral HM

perchloric acid A1
hydrochloric acid A2
nitric acid A3
aqua regia A4
nitric-perchloric A5
HF mixture A6
HF under pressure A7
fusion A8

cold acid CA
specific sulphide SS
other mixed acids Ma
alkaline attack AA
volatilization VO
ignition IG
pressed powder (XRF) PP
glass fusion (XRF) GF

atomic absorption AAS
x-ray fluorescence XRF
spectrophotometry SPEC
colorimetry COL
chromatography CHR
titration TTN
other chemicals means CHEM
miscellaneous MISC
fluorescence FLUOR
inductively coupled plasma ICP

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

759136

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

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CLIENT ORDER No.

PAGE

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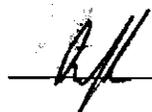
23/11/87

1 OF 6

TUBE No.	SAMPLE No.	Cu	Zn	Zn	As	Ag	Ag	Ba	Au	Pb
1	217185	5	10	-	1	<0.5	-	20	<0.005	5
2	217186	65	50	-	5	<0.5	-	220	<0.005	15
3	217187	75	110	-	8	0.5	-	214	<0.005	25
4	217188	100	160	-	7	<0.5	-	231	<0.005	20
5	217189	120	95	-	11	0.5	-	277	<0.005	25
6	217190	140	95	-	5	1.5	-	307	<0.005	15
7	217191	95	55	-	17	1.0	-	359	<0.005	20
8	217192	<5	10	-	3	0.5	-	324	<0.005	<5
9	217193	15	30	-	14	<0.5	-	44	<0.005	25
10	217194	10	80	-	19	0.5	-	389	<0.005	45
11	217195	5	20	-	3	<0.5	-	570	<0.005	30
12	217196	5	15	-	1	1.0	-	966	<0.005	10
13	217197	<5	10	-	<1	0.5	-	289	0.005	<5
14	217198	5	25	-	16	1.5	-	748	0.010	10
15	217199	5	20	-	3	0.5	-	291	<0.005	5
16	217200	5	10	-	18	<0.5	-	257	<0.005	<5
17	217201	<5	5	-	4	0.5	-	119	<0.005	<5
18	217202	<5	5	-	<1	<0.5	-	119	<0.005	<5
19	217203	5	155	-	<1	0.5	-	1180	<0.005	35
20	217204	5	100	-	1	0.5	-	886	<0.005	80
21	217205	5	120	-	3	0.5	-	1010	0.010	70
22	217206	45	500	-	11	1.5	-	920	<0.005	200
23	217207	5	60	-	8	0.5	-	660	<0.005	110
24	217208	20	140	-	6	<0.5	-	676	<0.005	35
25	217209	15	150	-	8	1.0	-	831	<0.005	25

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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A Division of Macdonald Hamilton & Co. Pty. Ltd.

759137

ANALYTICAL DATA

SAMPLE PREFIX

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TUBE No.	SAMPLE No.	Cu	Zn	Zn	As	Ag	Ag	Ba	Au	Pb
1	217210	35	230	-	7	<0.5	-	861	<0.005	20
2	217211	20	60	-	7	<0.5	-	447	<0.005	20
3	217212	20	85	-	7	<0.5	-	379	<0.005	15
4	217213	5	15	-	3	0.5	-	322	<0.005	10
5	217214	35	155	-	3	<0.5	-	697	<0.005	10
6	217215	20	130	-	1	1.0	+	470	<0.005	<5
7	217216	5	5	-	<1	1.0	-	120	<0.005	<5
8	217217	5	5	-	<1	<0.5	-	380	<0.005	<5
9	217218	5	10	-	<1	0.5	-	551	<0.005	<5
10	217219	<5	15	-	3	0.5	-	591	<0.005	<5
11	217220	20	35	-	8	0.5	-	957	<0.005	<5
12	217221	40	95	-	5	<0.5	-	724	<0.005	<5
13	217222	5	95	-	1	<0.5	-	453	<0.005	<5
14	217223	10	25	-	1	<0.5	-	442	0.015	<5
15	217224	5	15	-	1	1.0	-	146	<0.005	5
16	217225	25	30	-	8	<0.5	-	93	<0.005	10
17	217226	10	25	-	8	<0.5	-	102	<0.005	20
18	217227	5	30	-	5	0.5	-	116	<0.005	10
19	217228	20	40	-	13	<0.5	-	199	<0.005	25
20	217229	25	30	-	17	0.5	-	211	<0.005	25
21	217230	25	25	-	15	<0.5	-	240	<0.005	20
22	217231	30	40	-	20	<0.5	-	290	<0.005	15
23	217232	15	25	-	11	<0.5	-	185	<0.005	10
24	217273	30	1850	-	51	1.0	-	676	<0.005	560
25	217274	5	220	-	12	<0.5	-	663	<0.005	20

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure

X = element concentration is below detection limit

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TUBE No.	SAMPLE No.	Cu	Zn	Zn	As	Ag	Ag	Ba	Au	Pb
1	217292	10	35	-	150	<0.5	-	210	0.095	30
2	217293	5	85	-	150	<0.5	-	277	0.020	20
3	217294	15	40	-	120	<0.5	-	157	0.105	25
4	217295	30	270	-	28	1.0	-	422	0.005	200
5	217296	15	380	-	15	<0.5	-	413	0.010	10
6	217297	10	190	-	28	<0.5	-	160	0.005	25
7	217298	5	55	-	7	0.5	-	937	<0.005	<5
8	217299	10	245	-	27	<0.5	-	1130	<0.005	195
9	217300	5	65	-	11	<0.5	-	955	<0.005	5
10	217301	10	370	-	19	<0.5	-	670	<0.005	45
11	217302	15	900	-	1300	<0.5	-	1230	0.030	175
12	217303	5	135	-	740	0.5	-	3720	0.045	120
13	217304	155	-	2.44	120	-	17	682	0.055	-
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	0.01	1	0.5	2	10	0.005	5
24	UNITS	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM
25	METHOD	101	101	104	114	101	104	401	313	101

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
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 - = element not determined

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759139

ANALYTICAL DATA

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TUBE No.	SAMPLE No.	Pb								
1	217185	-								
2	217186	-								
3	217187	-								
4	217188	-								
5	217189	-								
6	217190	-								
7	217191	-								
8	217192	-								
9	217193	-								
10	217194	-								
11	217195	-								
12	217196	-								
13	217197	-								
14	217198	-								
15	217199	-								
16	217200	-								
17	217201	-								
18	217202	-								
19	217203	-								
20	217204	-								
21	217205	-								
22	217206	-								
23	217207	-								
24	217208	-								
25	217209	-								

Results in ppm unless otherwise specified
T = element present; but concentration too low to measure
X = element concentration is below detection limit
-- = element not determined

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100

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759140

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

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TUBE No.	SAMPLE No.	Pb								
1	217210	-								
2	217211	-								
3	217212	-								
4	217213	-								
5	217214	-								
6	217215	-								
7	217216	-								
8	217217	-								
9	217218	-								
10	217219	-								
11	217220	-								
12	217221	-								
13	217222	-								
14	217223	-								
15	217224	-								
16	217225	-								
17	217226	-								
18	217227	-								
19	217228	-								
20	217229	-								
21	217230	-								
22	217231	-								
23	217232	-								
24	217273	-								
25	217274	-								

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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759141

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

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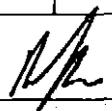
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TUBE No.	SAMPLE No.	Fb							
1	217292	--							
2	217293	--							
3	217294	--							
4	217295	--							
5	217296	--							
6	217297	--							
7	217298	--							
8	217299	--							
9	217300	--							
10	217301	--							
11	217302	--							
12	217303	--							
13	217304	1.87							
14									
15									
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	0.01							
24	UNITS	%							
25	METHOD	104							

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 -- = element not determined

AUTHORISED OFFICER



2c Newton Creek Platinoid -
Soil, Wacker, Rock Geochemistry

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS
 PROJECT E211/85 NEWTON CK
 PROSPECT

SAMPLE RECORD AND ANALYTICAL DATA SHEET
 LABORATORY ANALYTICAL SERVICES
 SAMPLE TYPE Rock Soil WATER

COLLECTED BY: Pollock
 DATE DISPATCHED:
 DATE RECEIVED:

A 28005

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				AV	PH	PL	RV	RH	IR	OS	
216459	14N	147 E	Carbonate altered serpentinite	8	1.5	1.5	6.5	0.5	1.0	4	
216511	28N	1020 E	Pyroxenite coarse, magnetite biotite veins	4	0.5	1.5	7.5	0.5	2.0	2	
216512	28N	1020 E	Silicified ultramafic, chromite grains	4	1.5	1.5	9.0	1.0	4.0	4	
216554	14N	470 E	Tuffaceous sed. grey green	2	<0.5	1.0	2.5	<0.5	1.0	<2	
216555	14N	460 E	Sheared, silicified siltst, FAULT ZONE	40	4.0	3.0	3.5	0.5	1.0	2	
216556	14N	4450 E	Talcose serpentinite	6	1.5	1.0	5.0	0.5	1.0	<2	
216557	14N	440 E	Glacials	6	0.5	2.0	3.5	<0.5	1.5	<2	
216558	14N	430 E	Sheared siltstone ± qb veinslets	4	0.5	1.0	2.5	<0.5	<0.5	<2	
216559	14N	400 E	Siltstone - tuffaceous sed.	2	0.5	3.5	2.5	<0.5	<0.5	<2	
216560	14N	390 E	" " " chloritic	6	<0.5	0.5	2.5	<0.5	<0.5	<2	
216561	14N	380 E	Siltstone	<2	<0.5	2.0	2.5	<0.5	0.5	<2	
216562	14N	350 E	INSUFFICIENT SAMPLE								
216563	14N	330 E	Gossan + ultramafic	4	2.0	<0.5	14	<0.5	6.0	8	
216564	14N	320 E	Serpentinized gabbro	6	1.5	4.5	4.0	0.5	2.0	4	
216565	14N	310 E	hematitic, carbonate altered ultramafic	4	2.0	2.0	5.5	0.5	2.0	2	
216566	14N	300 E	" ultramafic	4	2.0	1.0	8.5	1.0	4.5	6	
216567	14N	290 E	Ultramafic carbonate alt + qb	4	1.0	2.0	6.0	<0.5	1.5	2	
216568	14N	280 E	Glacials	2	1.0	3.5	2.5	<0.5	0.5	2	
216569	14N	270 E	Talcose serpentinite	4	2.0	3.0	5.0	<0.5	1.5	2	
216570	14N	264 E	Clay	10	<0.5	2.5	2.5	<0.5	<0.5	<2	
216571	14N	250 E	Ultramafic	<2	1.0	1.5	3.0	<0.5	1.0	2	

459143

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT *240* CYPRUS MINERALS

PROJECT E11/85

PROSPECT Newton CR

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY Analytical Services

SAMPLE TYPE WATER / SOIL

COLLECTED BY: Pollock

DATE DISPATCHED:

DATE RECEIVED:

A 28305

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Au	Pt	Pd	Ru	Rh	Ir	Os
216572	14N	240E	Ultramafic	2	9.0	4.5	5.0	2.0	1.5	4
216573	14N	230	Serpentine	<2	2.5	4.0	5.5	0.5	2.0	2
216574	14N	220E	" limonitic	4	7.0	6.0	2.5	1.0	1.0	2
216575	14N	210E	Qtz veined weathered mafic	2	2.0	3.0	3.5	0.5	1.0	<2
216576	14N	200E	Carbonate altered serpentinite	<2	2.5	2.5	3.0	0.5	1.0	<2
216577	14N	190E	Qtz veined limonitic mafic	<2	1.0	2.5	3.5	<0.5	0.5	<2
216578	14N	190E	limonite	<2	1.5	1.0	3.5	1.0	1.0	<2
216579	14N	180E	Carbonate altered serpentinite	<2	3.0	2.0	6.0	1.0	4.0	4
216580	14N	170E	Ultramafic	<2	5.5	5.5	4.5	1.0	<0.5	<2
216581	14N	160E	"	<2	2.5	2.0	4.0	1.0	1.5	2
216582	14N	140E	" carbonate altered.	<2	1.0	2.0	2.5	<0.5	0.5	<2
216583	14N	130E	Foliated and silicified sand or serp?	<2	1.0	1.5	2.0	<0.5	<0.5	<2
216606	18N	210E	Chloritized felsic volcanic	<2	1.0	3.5	2.0	<0.5	<0.5	<2
216607	18N	220E	limonite after chlorite or serp?	<2	5.0	5.0	9.5	1.5	5.0	4
216608	18N	230E	Sericitized volc?	<2	3.5	3.0	6.5	1.0	2.5	4
216609	18N	240E	Glacial	<2	1.5	3.0	2.5	<0.5	0.5	<2

759144



Reference Number 35872

2 DEC., 1987

Order Number E 00314

Cyprus Minerals Australia Company

P.O.Box 493

NORTH SYDNEY NSW 2060

Analysis of Mineral Samples

Analysed By :
ANALYTICAL SERVICES (WA) PTY LTD
19 Augusta St
WILLETTON WA 6155
Telephone 354 1888
Telex AA 94767
Facsimile 457 2569

Authorised By : T.K.Chan



REFERENCE NUMBER 35872

Order No E 00314

Page 1

SAMPLE NUMBER	Au ppb	Pt ppb	Pd ppb	Ru ppb	Rh ppb	Ir ppb	Os ppb
---------------	--------	--------	--------	--------	--------	--------	--------

216459	8	1.5	1.5	6.5	0.5	1.0	4
216511	4	0.5	1.5	7.5	0.5	2.0	2
216512	4	1.5	1.5	9.0	1.0	4.0	4
216554	2	<0.5	1.0	2.5	<0.5	1.0	< 2
216555	40	4.0	3.0	3.5	0.5	1.0	2
216556	6	1.5	1.0	5.0	0.5	1.0	< 2
216557	6	0.5	2.0	3.5	<0.5	1.5	< 2
216558	4	0.5	1.0	2.5	<0.5	<0.5	< 2
216559	2	0.5	3.5	2.5	<0.5	<0.5	< 2
216560	6	<0.5	0.5	2.5	<0.5	<0.5	< 2

216561	< 2	<0.5	2.0	2.5	<0.5	0.5	< 2
216562	I.S.						
216563	4	2.0	<0.5	14	<0.5	6.0	8
216564	6	1.5	4.5	4.0	0.5	2.0	4
216565	4	2.0	2.0	5.5	0.5	2.0	2
216566	4	2.0	1.0	8.5	1.0	4.5	6
216567	4	1.0	2.0	6.0	<0.5	1.5	2
216568	2	1.0	3.5	2.5	<0.5	0.5	2
216569	4	2.0	3.0	5.0	<0.5	1.5	2
216570	10	<0.5	2.5	2.5	<0.5	<0.5	< 2

216571	< 2	1.0	1.5	3.0	<0.5	1.0	2
216572	2	9.0	4.5	5.0	2.0	1.5	4
216573	< 2	2.5	4.0	5.5	0.5	2.0	2
216574	4	7.0	6.0	2.5	1.0	1.0	2
216575	2	2.0	3.0	3.5	0.5	1.0	< 2
216576	< 2	2.5	2.5	3.0	0.5	1.0	< 2
216577	< 2	1.0	2.5	3.5	<0.5	0.5	< 2
216578	< 2	1.5	1.0	3.5	1.0	1.0	< 2
216579	< 2	3.0	2.0	6.0	1.0	4.0	4
216580	< 2	5.5	5.5	4.5	1.0	<0.5	< 2

216581	< 2	2.5	2.0	4.0	1.0	1.5	2
216582	< 2	1.0	2.0	2.5	<0.5	0.5	< 2
216583	< 2	1.0	1.5	2.0	<0.5	<0.5	< 2
216606	< 2	1.0	3.5	2.0	<0.5	<0.5	< 2
216607	< 2	5.0	5.0	9.5	1.5	5.0	4
216608	< 2	3.5	3.0	6.5	1.0	2.5	4
216609	< 2	1.5	3.0	2.5	<0.5	0.5	< 2



REFERENCE NUMBER 35872

Order No E 00314

PAGE 2

Sample Preparation

No sample preparation was required on these samples.

Sample Analysis

Au Pt Pd Ru Rh Ir Os

have been determined by Fire Assay of the sample (in NEW pots) using Nickel Sulphide as the collection media. The Platinoids have been recovered from the Nickel Sulphide and analysed by ICP-Mass Spectrometry.

I.S. MEANS THERE WAS INSUFFICIENT SAMPLE FOR THAT PARTICULAR DETERMINATION

Sample Storage

Sample pulps and residues will be stored free of charge for

ONE MONTH after reporting.

Samples are then Palletised, and a fee of \$1.00 per day per Pallet required is levied.

2d Newton Creek - Stream Geochemistry

759152

ANALABS

Phone (09) 458 7999

A division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106
FAX: 09 458 8870

Telex AA92560

ANALYTICAL REPORT No. 7.5.08.04986

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

R. Pollock
Cyprus Minerals
P.O. Post Office
Wilmot
Tasmania 7310

ORDER No. 100331 PROJECT DN 5471

DATE RECEIVED 07/12/87 RESULTS REQUIRED ASAP

No. OF PAGES OF RESULTS: 2 DATE REPORTED: 28/12/87 No. OF COPIES: 1 TOTAL No. OF SAMPLES: 25

STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						OTHER SEE REMARKS	NONE	ANALYSIS		
			DRY	CRUSH	SPLIT	PULVERISE	SIEVE	REFER TO ANALYSIS SECTION			PREPARATION	METHOD	
Various			RD	Prep: 005, 010, 011, 012, 013, 016						Cu, Pb, Zn, Ag/101, As/114			
Various			RD							Au, AuChk/313, Ba/401			
Various			SS	Prep: 005, 007, 015						Cu, Pb, Zn, Ag/101, As/114			
Various			SS							Au, AuChk/313, Ba/401			
Various			SS							Au/328			

RESULTS TO
B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060

RESULTS TO
R. Pollock
Cyprus Minerals
P.O. Post Office
Wilmot
Tasmania 7310

REMARKS

STATE OF SAMPLES	ANALYSIS	PREPARATION	ANALYSIS	METHOD			
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorption	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	MA	spectrophotometry	SPEC
rock	RO	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemical means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

AUTHORISED OFFICER

102

ANALABS

759153

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.04986

28/12/87

E00321

1 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba	Au	TotWt
11	217453	20	40	75	<0.5	8	<0.005	266	-	-
12	217458	15	10	40	1.0	5	<0.005	303	-	-
13	217461	5	40	60	0.5	24	<0.005	220	-	-
14	217463	35	160	95	0.5	160	<0.005	592	-	-
15	217465	10	55	50	<0.5	43	<0.005	339	-	-
16	217468	15	65	65	0.5	40	<0.005	371	-	-
17	217047	<5	<5	35	0.5	7	<0.005	232	-	-
18	217048	15	20	75	0.5	8	<0.005	353	-	-
19	217049	20	55	50	<0.5	9	<0.005	537	-	-
20	217050	20	40	110	<0.5	11	<0.005	439	-	-
21	216650	-	-	-	-	-	-	-	0.11	4.5
22	217455	-	-	-	-	-	-	-	0.21	4.6
23	217460	-	-	-	-	-	-	-	0.41	2.7
24	217467	-	-	-	-	-	-	-	0.20	4.7
25	217469	-	-	-	-	-	-	-	0.58	3.6

Results in ppm unless otherwise specified.
 - element present, but concentration too low to measure.
 X element concentration is below detection limit.
 - element not determined.

AUTHORISED OFFICER

103

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759154

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.04986

28/12/87

E00321

2 OF 2

TUBE No.	SAMPLE No.	Cu	Pb	Zn	Ag	As	Au	Ba	Au	TotWt
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22	DETECTION	5	5	5	0.5	1	0.005	10	0.05	0.1
23	UNITS	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPB	KG
24	METHOD	101	101	101	101	114	313	401	328	199
25										

Results in ppm unless otherwise specified.
 * element present but concentration too low to measure.
 X element concentration is below detection limit.
 - element not determined.

AUTHORISED OFFICER

2e Howard's Road - Rock Geochemistry
 8.2 kilometer peg.

155

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS MINERALS AUST

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: R. Pollock

PROJECT EL 11/85 YOLANDE

LABORATORY ANALABS COSEE

DATE DISPATCHED:

PROSPECT NEWTON CREEK HOWARD'S ROAD

SAMPLE TYPE Rock Chip

DATE RECEIVED:

A 2805

SAMPLE NUMBER	LOCATION	8-2 km	DESCRIPTION	ANALYSES								
				Cu	Pb	Zn	Ag	As	Au	Ba		
217305	5354 SQM/37930 E	8-2 km	Volc - cryt lithic < 25 mm S/P									
217306			"									
217307			"									
217308	SPLIT OF PULPS BULKED	8-2 km	"	90	60	720	1.0	57	<0.005			
217309			"									
217310			"									
217311			"									
217312			Shear zone with qb dm veins	8-2 km	"	100	225	160	<0.5	56	<0.005	
217313	"											
217314	Volcanic	8-2 km	"									
217315			"									
217316			"									
217317			"									
217318												

759156

ANALABS

759157

A division of MacDonal Hamilton & Co. Pty. Ltd.

Phone (09) 458 7999

52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

FAX: 004 31 8890

ANALYTICAL REPORT No. 7.5.08.04922

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060

ORDER No.	PROJECT
60818	EL11785 VOL
DATE RECEIVED	RESULTS REQUIRED
13/11/87	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
3	01/12/87	1	72

STATE OF SAMPLES REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS				
		DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
Various		PU								Cu, Pb, Zn, Ag/101, As/114		
Various		PU								Ba/401, Ag/313		

RESULTS TO
B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060

RESULTS TO

REMARKS

STATE OF SAMPLES	ANALYSIS - PREPARATION	ANALYSIS - METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock RO	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration ITN
water WA	HF under pressure A7	other chemicals means CHEM
tissue TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		inductively coupled plasma ICP
	cold acid CA	
	specific sulphide SS	
	other mixed acids MA	
	alkaline attack AA	
	volatilization VO	
	ignition IG	
	pressed powder (XRF) PP	
	glass fusion (XRF) GE	

AUTHORISED OFFICER



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ANALABS

759158

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.04922

01/12/87

00315

1 OF 3

TUBE No.	SAMPLE No.		Cu	Pb	Zn	Ag	As	Au	Ba	
----------	------------	--	----	----	----	----	----	----	----	--

19	217305-311		90	60	720	1.0	57	<0.005	1320	
20	217312-313		100	225	160	<0.5	56	<0.005	802	
21	217314-318		65	120	245	<0.5	30	<0.005	1140	

2f Henty River - Stream Geochemistry

109

ROGER POLTOCK GEOLOGICAL PTY. LTD.

CLIENT CYPRUS GOLD AUST CORP
 PROJECT ELI/25 YOLANDE
 PROSPECT 5th Henry River SEQUENCE

SAMPLE RECORD AND ANALYTICAL DATA SHEET

LABORATORY ANALABS
 SAMPLE TYPE STREAM SED / PAN CONS

COLLECTED BY: POLTOCK SUPREE
 DATE DISPATCHED:
 DATE RECEIVED:

A 28306

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES							
			Cu	Pb	Zn	As	Au	Ba		
217477		-8off	45	<5	145	3	<0.005	159		
217500	Dito 217477	Pan con minor Cr, black sand.	N/A							
217478		-8off	10	<5	130	2	<0.005	195		
217499	Dito 217478	Pan con minor Cr, black sand, few hematite grains	N/A							
217479		-8off	20	<5	95	4	<0.005	183		
217498	Dito 217479	Pan con minor Cr, black sand, few hematite frags.	N/A							
217480		-8off	<5	<5	105	5	<0.005	175		
217497	Dito 217480	Pan con minor Cr - black sand	N/A							
217481		-8off	<5	<5	100	6	<0.005	149		
217496	Dito 217481	Pan con minor Cr - black sand	N/A							
217482		-8off	10	35	130	6	<0.005	156		
217495	Dito 217482	Pan con minor Cr - black sand	N/A							
21777		Pan con	N/A							
217718	Dito 21777	-8off	33	32	224	7	<0.008			
217719		Pan con	N/A							
217720	Dito 217719	-8off	28	28	133	8	<0.008			
293569		Pan con	N/A							
293570	Dito 293569	-8off	35	20	255	9	0.025			
293571		Pan con	N/A							
293572	Dito 293571	-8off	20	25	115	4	0.015			

739160

Phone (09) 458 7999

A division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.

PROJECT

DATE RECEIVED

RESULTS REQUIRED

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

STATE OF SAMPLE	REFER BELOW	PRE-TREATMENT							ANALYSIS			
		SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS

TO

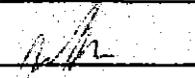
RESULTS

TO

REMARKS

STATE OF SAMPLES		ANALYSIS — PREPARATION					ANALYSIS — METHOD	
whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorption	AAS	
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF	
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC	
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL	
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR	
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN	
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemical means	CHEM	
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC	
stream sediment	SS					fluorescence	FLUOR	
heavy mineral	HM					inductively coupled plasma	ICP	

AUTHORISED OFFICER _____



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ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

759163

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.05289

14/04/88

E00333

1 OF 1

TUBE No.	SAMPLE No	Cu	Pb	Zn	As	Au	Ba			
1	217477	45	<5	145	3	<0.005	159			
2	217478	10	<5	130	2	<0.005	195			
3	217479	20	<5	95	4	<0.005	183			
4	217480	<5	<5	105	5	<0.005	175			
5	217481	<5	<5	100	6	<0.005	149			
6	217482	10	35	130	6	<0.005	156			
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	5	5	1	0.005	10			
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM			
25	METHOD	101	101	101	114	313	401			

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure

X = element concentration is below detection limit

- = element not determined

AUTHORISED
OFFICER

ANALABS

759164

A Division of MacDonnell Hamilton Pty. Ltd.
32 Murray Road, Weisnpool, W.A. 6100
FAX: 004 31 8890

Telex AA72560

ANALYTICAL REPORT No. 7.5.08.05366

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA.

ORDER No.

PROJECT

E03476

DN 5774

DATE RECEIVED

REPORT REQUIRED

22/04/88

ASAP

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

2

22/04/88

1

35

REFER BELOW	STATE OF SAMPLES	SAMPLE NUMBERS	PRE-TREATMENT							ANALYSIS			
			DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
		217721/50,293568	DC	Prep: 006,010,011,012,013,016							Au,AuChk/309		
		217714,217716,217718,217720	SS	Prep: 005,016,016							Cu,Pb,Zn,102,As,114		
		217714,217716,217718,217720	SS								Au,AuChk/309		

REMARKS

RESULTS

TO

B. Roxburgh
Cyprus Gold Aust. Co.,
P.O. Box 493
North Sydney
N.S.W. 2060

RESULTS

TO

C. Torrey
Cyprus Gold Aust. Co.,
3 Glenlea Drive
Maroochydore
Queensland 4558

STATE OF SAMPLES	ANALYSIS - PREPARATION	ANALYSIS - METHOD
whole core	perchloric acid	atomic absorption
split core	hydrochloric acid	ray fluorescence
cuttings	nitric acid	spectrophotometry
rock	aqua regia	colorimetry
soil	nitric-perchloric	chromatography
slur	H ₂ O ₂ mixture	infrared
water	HE Under pressure	other chemical means
sludge	fusion	miscellaneous
stream sediment		fluorescence
heavy mineral		inductively coupled plasma

AUTHORISED OFFICER

104

759165

ANALABS

A Division of Macdonald Hamilton & Co. Pty Ltd.

ANALYTICAL DATA

SAMPLE PREFIX REPORT NUMBER REPORT DATE CLIENT ORDER No. PAGE

7.5.08.05366

28/04/88

E03476

2 OF 2

BE	SAMPLE No.	Cu	Pb	Zn	As	Au	AuChk		
1		-	-	-					
2		-	-	-					
3		-	-	-					
4		-	-	-					
D		-	-	-					
6		-	-	-					
7									
8									
9	217718	33	32	224	7	<0.008	-		
10	217720	28	28	133	8	<0.008	-		
11									
12									
13									
15									
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	1	1	1	1	0.008	0.008		
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM		
25	METHOD	102	102	102	104	309	309		

Results in ppm unless otherwise specified.
 X - element present but concentration too low to measure.
 - element concentration below detection limit.
 ND - element not determined.

AUTHORISED OFFICER

Phone (09) 456 7599

A division of M. Donald Hamilton & Co. Pty. Ltd.
52 Murray Road, West Hill, W.A. 6106

Telex AA 5157

ANALYTICAL REPORT No.

7-5-88, 05401

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.

PROJ No.

C. Torrey
Cyrus Gold Aust. Co.,
3 Ellenlea Drive
Harbourside
Queensland 4550

E62479

DN 3781

DATE RECEIVED

RECEIVED BY

03/05/88

ADAF

NO. OF ANALYSES

DATE

NO. OF COPIES

TOTAL NO. OF SAMPLES

1

17/05/88

1

1

PRE-TREATMENT

ANALYSIS

293576/34/2

B5 Prep: 005,013,016

Cu, Pb, Zn/101, As/114

293576/34/1

B5 Prep: 005,013,018

Ag, Au, Cd, Cr/309, As/114

RESULTS

C. Torrey
Cyrus Gold Aust. Co.,
3 Ellenlea Drive
Harbourside
Queensland 4550

REMARKS

RESULTS

R. Pollock
Cyrus Gold Aust. Co.,
C/- Post Office
Walton
Tasmania 7310

TYPE OF SAMPLE

ANALYSIS - PREPARATION

ANALYSIS - METHOD

agate
slag
rotting
rock
soil
soil
water
sludge
stream sediment
heavy mineral

WC
SC
CU
Fe
SO
PO
WA
H
SS
HM

perchloric acid
hydrochloric acid
nitric acid
aqua regia
nitric-perchloric
HF mixture
HF under pressure
fusion

A1
A2
A3
A4
A5
A6
A7
A8

cold acid
specific sulphide
other mixed acids
alkaline attack
volatilization
ignition
pressed powder (XRF)
glass fusion (XRF)

CA
SS
MA
AA
VO
IG
PP
GF

atomic absorption
x-ray fluorescence
spectrophotometry
colorimetry
chromatography
titration
other chemical means
miscellaneous
fluorescence
inductively coupled plasma

AA
XRF
SP
CO
CH
IT
OC
MS
FL
ICP

AUTHORISED OFFICER

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER NO.

PAGE

7.5.08.05401

17/05/88

E03479

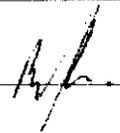
1

1

SAMPLE NO.	Cu	Pb	Zn	As	Au	
293570	35	80	255	9	0.025	
293572	20	25	115	4	0.015	
293574	35	65	180	4	0.008	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23	DETECTION	5	5	5	1	0.008
24	UNITS	PPM	PPM	PPM	PPM	PPM
25	METHOD	101	101	101	114	309

Results in ppm unless otherwise specified
 T = element present, but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

AUTHORIZED OFFICER



2g Lynchford - Stream Geochemistry

ANALYTICAL REPORT No.

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

ORDER No.

PROJECT

DATE RECEIVED

RESULTS REQUIRED

No. OF PAGES OF RESULTS

DATE REPORTED

No. OF COPIES

TOTAL No. OF SAMPLES

STATE OF SAMPLES

PRE-TREATMENT

ANALYSIS

REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD

RESULTS

TO

RESULTS

TO

REMARKS

STATE OF SAMPLES

ANALYSIS — PREPARATION

ANALYSIS — METHOD

whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorption	AAS
split core	SC	hydrochloric acid	A2	specific sulphide	SS	x-ray fluorescence	XRF
cutting	CU	nitric acid	A3	other mixed acids	Ma	spectrophotometry	SPEC
rock	Ro	aqua regia	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric-perchloric	A5	volatilization	VO	chromatography	CHR
pulp	PU	HF mixture	A6	ignition	IG	titration	TTN
water	WA	HF under pressure	A7	pressed powder (XRF)	PP	other chemicals means	CHEM
tissue	TI	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
stream sediment	SS					fluorescence	FLUOR
heavy mineral	HM					inductively coupled plasma	ICP

AUTHORISED OFFICER

ANALABS

A Division of Macdonald Hamilton & Co. Pty Ltd.

759171

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.05516

20/06/88

E00334

1 OF 1

TUBE No.	SAMPLE No.	Cu	Pb	Zn	As	Au			
1	217345	235	280	210	17	0.025			
2	217347	90	80	45	39	0.010			
3	217349	70	90	50	130	0.010			
4	217483	35	35	25	17	0.005			
5	217485	165	140	140	25	0.025			
6	217487	120	115	70	27	0.010			
7	217489	125	95	45	84	0.010			
8	217491	210	135	140	28	0.020			
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	5	5	5	1	0.005			
24	UNITS	PPM	PPM	PPM	PPM	PPM			
25	METHOD	101	101	101	114	313			

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

AUTHORISED OFFICER



ANALABS

A Division of MacDonalld Hamilton & Co. Pty. Ltd

Phone (09) 458 7999

52 Murray Road, Welshpool, W.A. 6106
FAX: 004 31 8890

Telex AA92560

ANALYTICAL REPORT No. 7.5.08.05366

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

B. Roxburgh
Cyprus Gold Aust. Co.,
P.O. Box 493
North Sydney
N.S.W. 2060

ORDER No.	PROJECT
E03476	DN 5779
DATE RECEIVED	RESULTS REQUIRED
22/04/88	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
2	28/04/88	1	35

STATE OF SAMPLES	REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT						ANALYSIS				
			DRY	CRUSH	SPLIT	PULVERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD	
		217721/50, 293568	DC	Prep: 006, 010, 011, 012, 013, 016							Au, AuChk/309		
		217714, 217716, 217718, 217720	SS	Prep: 005, 013, 016							Cu, Pb, Zn, 102, As/114		
		217714, 217716, 217718, 217720	SS								Au, AuChk/309		

RESULTS

TO

B. Roxburgh
Cyprus Gold Aust. Co.,
P.O. Box 493
North Sydney
N.S.W. 2060

RESULTS

TO

C. Torrey
Cyprus Gold Aust. Co.,
3 Glenlea Drive
Maroochydore
Queensland 4558

REMARKS

STATE OF SAMPLES	ANALYSIS	PREPARATION	ANALYSIS	METHOD			
Whole core	WC	perchloric acid	A1	cold acid	CA	atomic absorption	AAS
Split core	SC	hydrochloric acid	A2	specific sulphide	SS	ray fluorescence	XRF
cuttings	CU	nitric acid	A3	in the mixed acids	MO	spectrophotometry	SPEC
rock	RO	cyanide	A4	alkaline attack	AA	colorimetry	COL
soil	SO	nitric perchloric	A5	oxidation	VO	gravimetry	GRV
tailings	TD	HF/methane	A6	lanthanides	IG	titration	TITN
water	WA	HF/methane	A7	pressed powder (XRF)	PP	other chemical means	CHEM
sludge	SL	fusion	A8	glass fusion (XRF)	GF	miscellaneous	MISC
slimes	SS					fluorescence	FLUO
slimes (dried)	SSD					inductively coupled plasma	ICP

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ANALABS

A Division of Macdonald Hamilton & Co. Pty. Ltd.

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

7.5.08.05366

28/04/88

E03476

2 OF 2

SR	SAMPLE	Cu	Pb	Zn	As	Au	AuChk		
3									
4									
5									
6									
7	217714	71	51	81	20	<0.008			
8	217716	72	43	88	10	<0.008			
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23	DETECTION	1	1	1	1	0.008	0.008		
24	UNITS	PPM	PPM	PPM	PPM	PPM	PPM		
25	METHOD	102	102	102	114	309	309		

Results in ppm unless otherwise specified.
 If element present but concentration too low to measure
 element concentration is below detection limit.
 element not determined.

AUTHORISED OFFICER

2h Woody Hill (Macquarie)
Rock Geochemistry

ANALABS

759176

Phone (09) 458 7999

A division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106

Telex AA92560

FAX: 004 31 8890

ANALYTICAL REPORT No. 7.5.08.04902

THIS REPORT MUST BE READ IN CONJUNCTION WITH THE ACCOMPANYING ANALYTICAL DATA

B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060

ORDER No.	PROJECT
	DESP 3466
DATE RECEIVED	RESULTS REQUIRED
09/11/87	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
6	27/11/87	1	6

STATE OF SAMPLE	PRE-TREATMENT								ANALYSIS			
	REFER BELOW	SAMPLE NUMBERS	DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHOD
various			RC Prep: 006		101,011,012,013,016					Cu,Pb,Zn,Ag/101,As/114		
various			RC							Pb,Ag,As/313		
various			RC Prep: 006		101,011,012,013,016					Pb,Zn,Ag/104		

RESULTS TO

B. Roxburgh
Cyprus Minerals
P.O. Box 493
North Sydney
N.S.W. 2060

RESULTS TO

REMARKS

STATE OF SAMPLES	ANALYSIS — PREPARATION	ANALYSIS — METHOD
whole core WC	perchloric acid A1	atomic absorption AAS
split core SC	hydrochloric acid A2	x-ray fluorescence XRF
cutting CU	nitric acid A3	spectrophotometry SPEC
rock RO	aqua regia A4	colorimetry COL
soil SO	nitric-perchloric A5	chromatography CHR
pulp PU	HF mixture A6	titration ITN
water WA	HF under pressure A7	other chemical means CHEM
tissue TI	fusion A8	miscellaneous MISC
stream sediment SS		fluorescence FLUOR
heavy mineral HM		inductively coupled plasma ICP

AUTHORISED OFFICER 

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

		7.5.08.04902				23/11/87				3 OF 6	
TUBE No.	SAMPLE No.	Cu	Zn	Zn	As	Ag	Ag	Ba	Au	Pb	
1	217292	10	35	-	150	<0.5	-	210	0.095	30	
2	217293	5	85	-	150	<0.5	-	277	0.020	20	
3	217294	15	40	-	120	<0.5	-	157	0.105	25	

22										
23	DETECTION	5	5	0.01	1	0.5	2	10	0.005	5
24	UNITS	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM
25	METHOD	101	101	104	114	101	104	401	313	101

Results in ppm unless otherwise specified.
 * element present; but concentration too low to measure
 * element concentration is below detection limit
 * element not determined

AUTHORISED OFFICER



7532

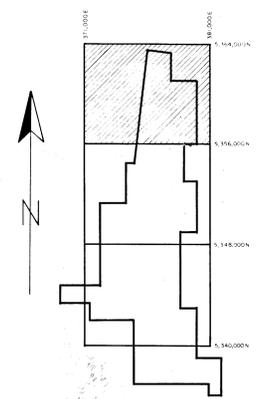
Renison Goldfields
Henty Fault Prospect

LEGEND

- QUATERNARY**
- 1 Glacial Deposits
- CAMBRIAN - MT. READ VOLCANICS**
- 2 **TYNDALL GROUP**
Rhyolitic quartz-feldspar phytic tuffs and lavas
- HENTY RIVER SEQUENCE**
- 3a Silstone - greywacke, pink-green
 - 3b Turfaceous siltstone - greywacke, 4 ditrital magnetite
 - 3c Quartz grit, micaceous quartzose greywacke, black shale & minor carbonates
 - 3d Andesitic lavas, feldspar porphyritic
 - 3e Chert, chert pebble conglomerate, siltstone-greywacke
- CENTRAL VOLCANIC SEQUENCE**
- 4a Felsic pyroclastics, med-coarse grained, feldspar phytic, West of Henty Fault
 - 4b Felsic pyroclastics, med-coarse grained, feldspar phytic, East of Henty Fault
 - 4c Feldspar crystal lithic tuffs with agglomerate lenses (1,4)
 - 4d Vitric tuff, black shales
 - 4e Dacitic volcanics, feldspar phytic, chloritic ground mass
 - 4f Andesite volcanics, feldspar-hornblende phytic
- WHITE SPUR FORMATION**
- 5 Silstone, quartz-feldspar phytic tuffs
- CAMBRIAN BASICS-ULTRABASICS**
- 6 Basalt-microgabbro
Fine grained volcanics-intrusives
 - 7 Ultramafics
Serpentinized-dolomitized-silicified

5 cm

- Geological Contact
 - Alteration Boundary
 - Fault
 - Stream sediment and pan concentrate samples
- ALTERATION**
- Pyrite, sericite, ± quartz, calcite veining, minor galena-sphalerite
- GEOLOGY SOURCE:** K.D. Corbett, Geological Survey of Tasmania with modifications by R. Pollock
- Rock Chip**
- Grid Line
 - Stream sediment - pan concentrate - bulk load
 - Bedrock sampling with auger or "Wacko"
- For all other rock chip samples collected on grid lines refer to 1:5000 Sections.
- Old Mt. Lyell East and West Tyndall Grids
- S 67728 = Stream Sediment Sample
 - P 67729 = Panned Concentrate Sample
 - R 67730 = Rock Chip Sample
- 23710-23719 G.D. Fisher
- BASEMAP PREPARED BY E.L. ADDITIONS BY CYPBUS & TDGS 1988



CYPBUS 759178

PROJECT: YOLANDE JV EL 11/85 TAS

**NEWTON CREEK
NORTH SHEET**

**INTERPRETIVE GEOLOGY
AND
SAMPLE LOCATIONS**

Scale: 1:10 000	Survey: 1.MAT	Revised: May 1988
Reference:	Date: May, 1988	Ref No:
Drawn: R Pollock	Checked:	AO-519-0005

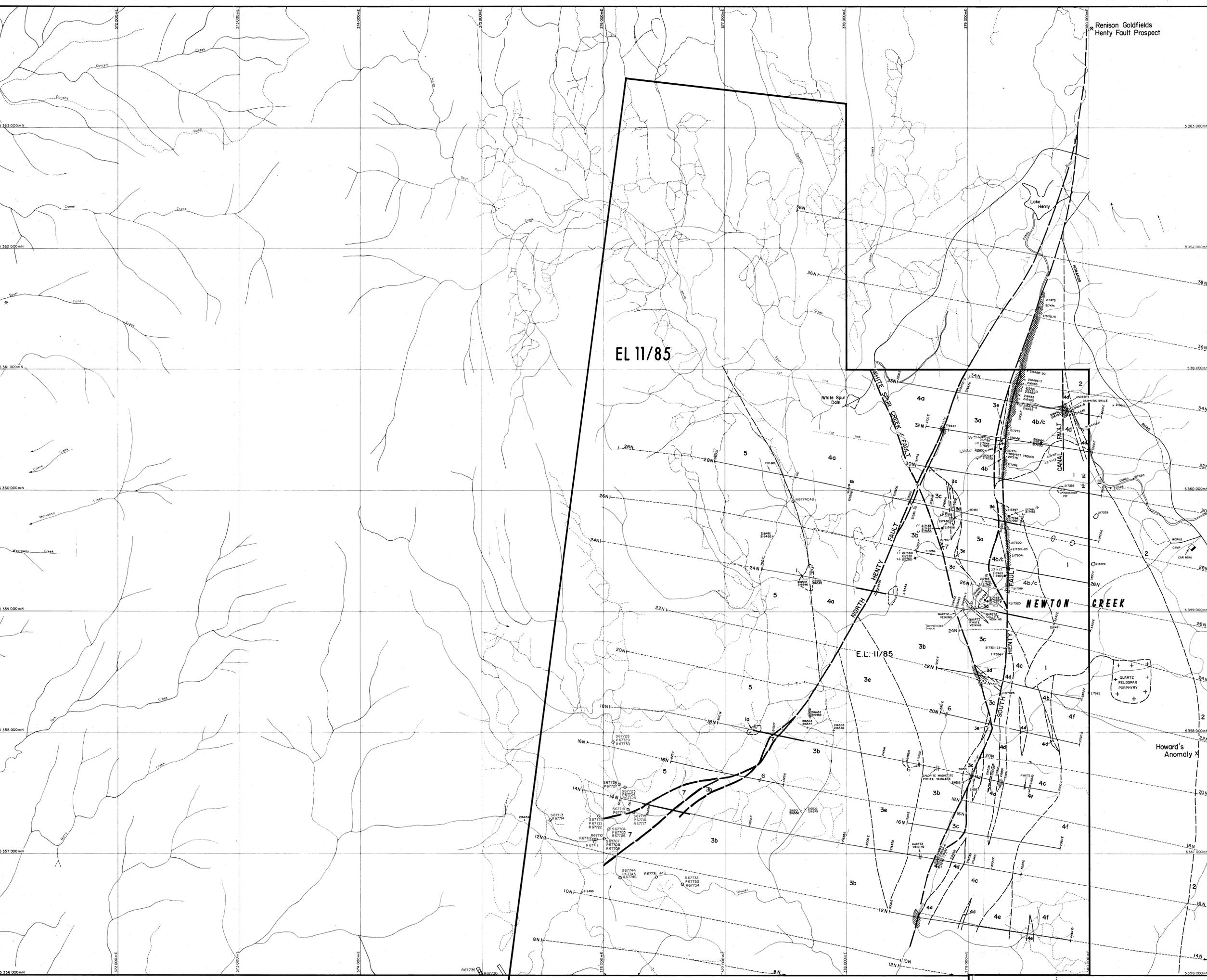
REPORT 594 7532 ENCLOSURE 1

88-2837

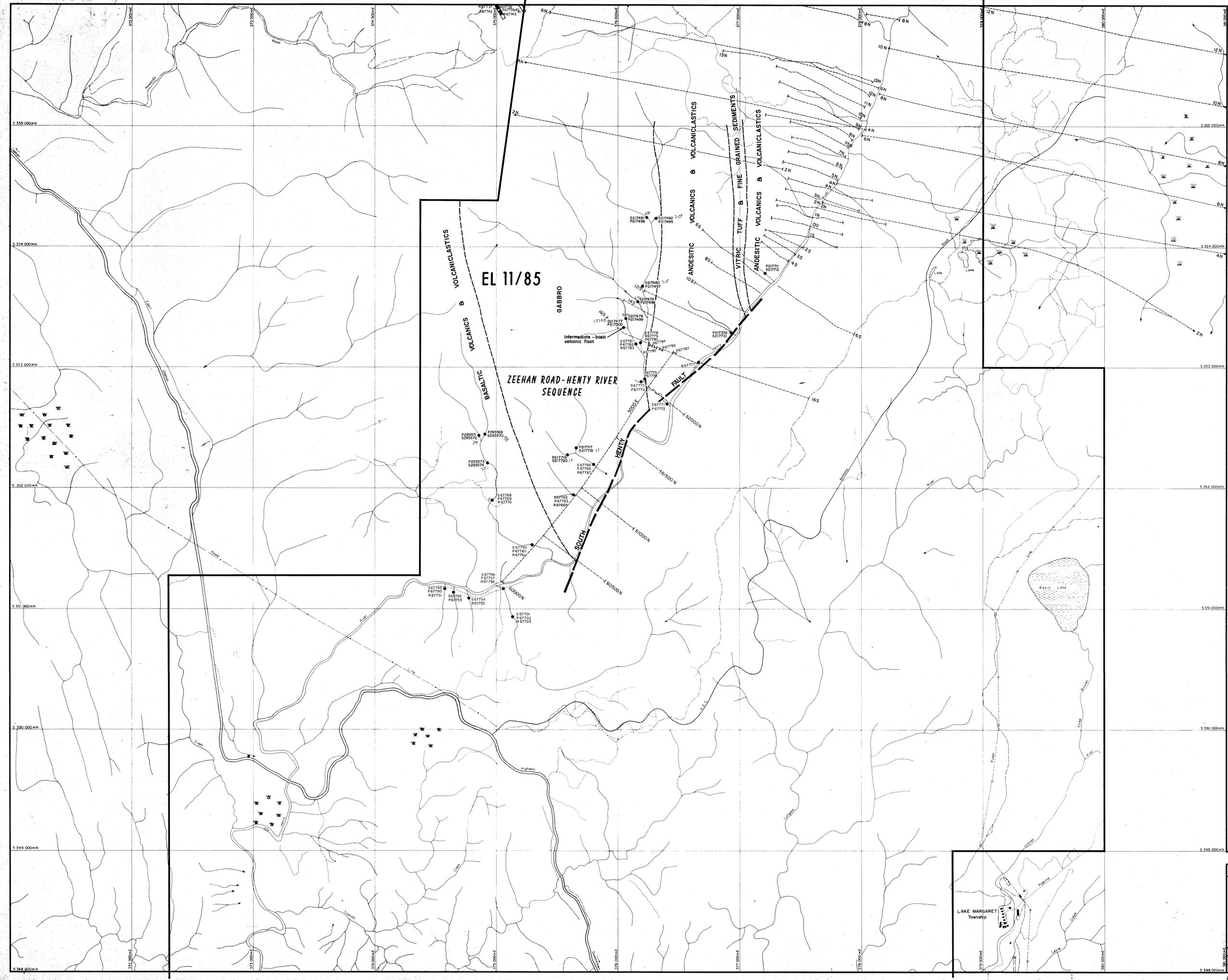
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EL 11/85

Howard's Anomaly



7533



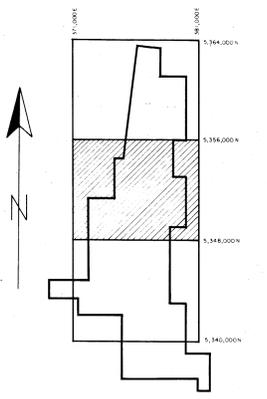
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BASEMAP PREPARED BY E.Z. ADDITIONS BY CYPBUS AND TGD'S 1988

- S 67765 = Stream Sediment Sample
- P 67766 = Placed Concentrate Sample
- R 67767 = Rock Chip Sample

23785-35 G15 Plate No



CYPBUS 759179

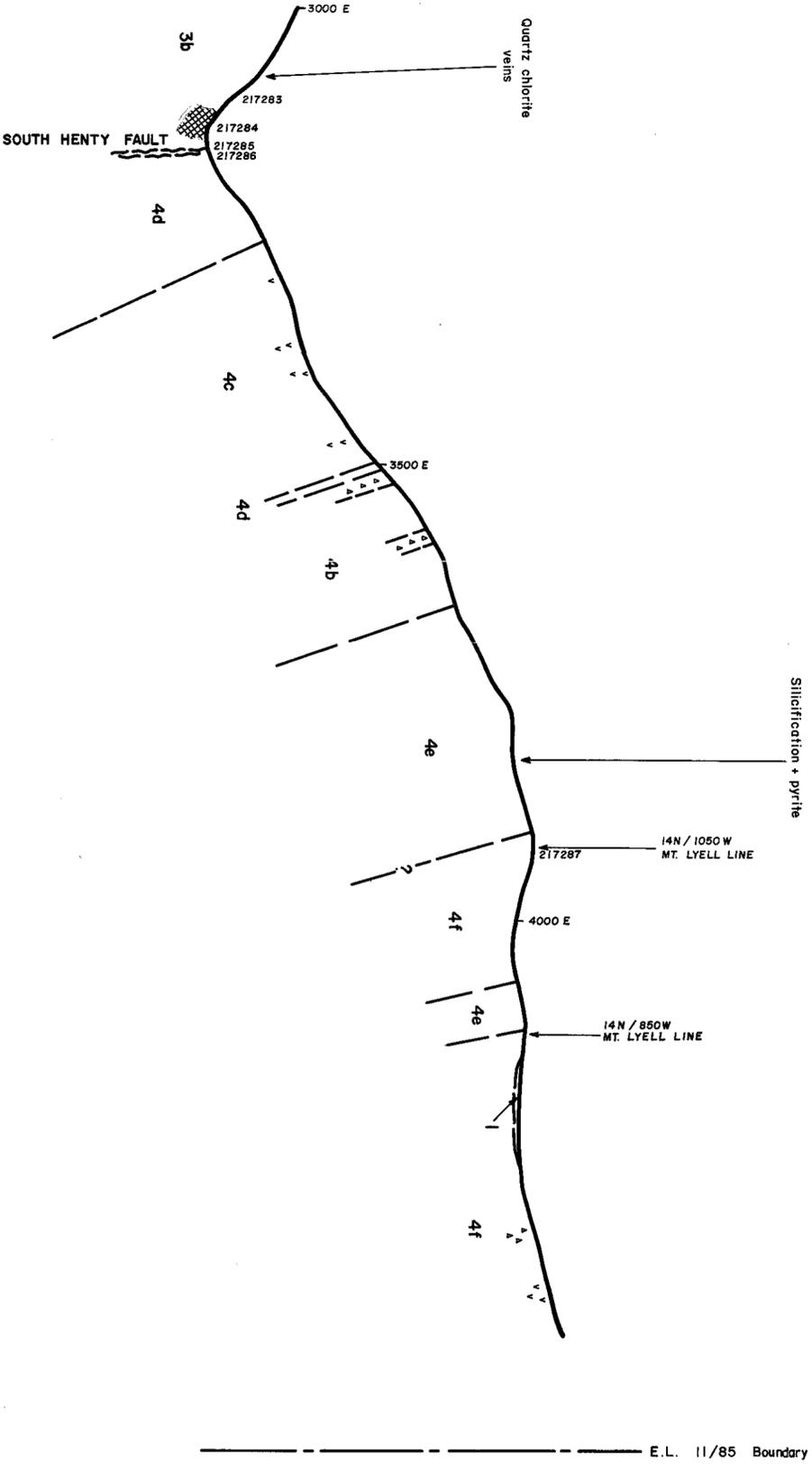
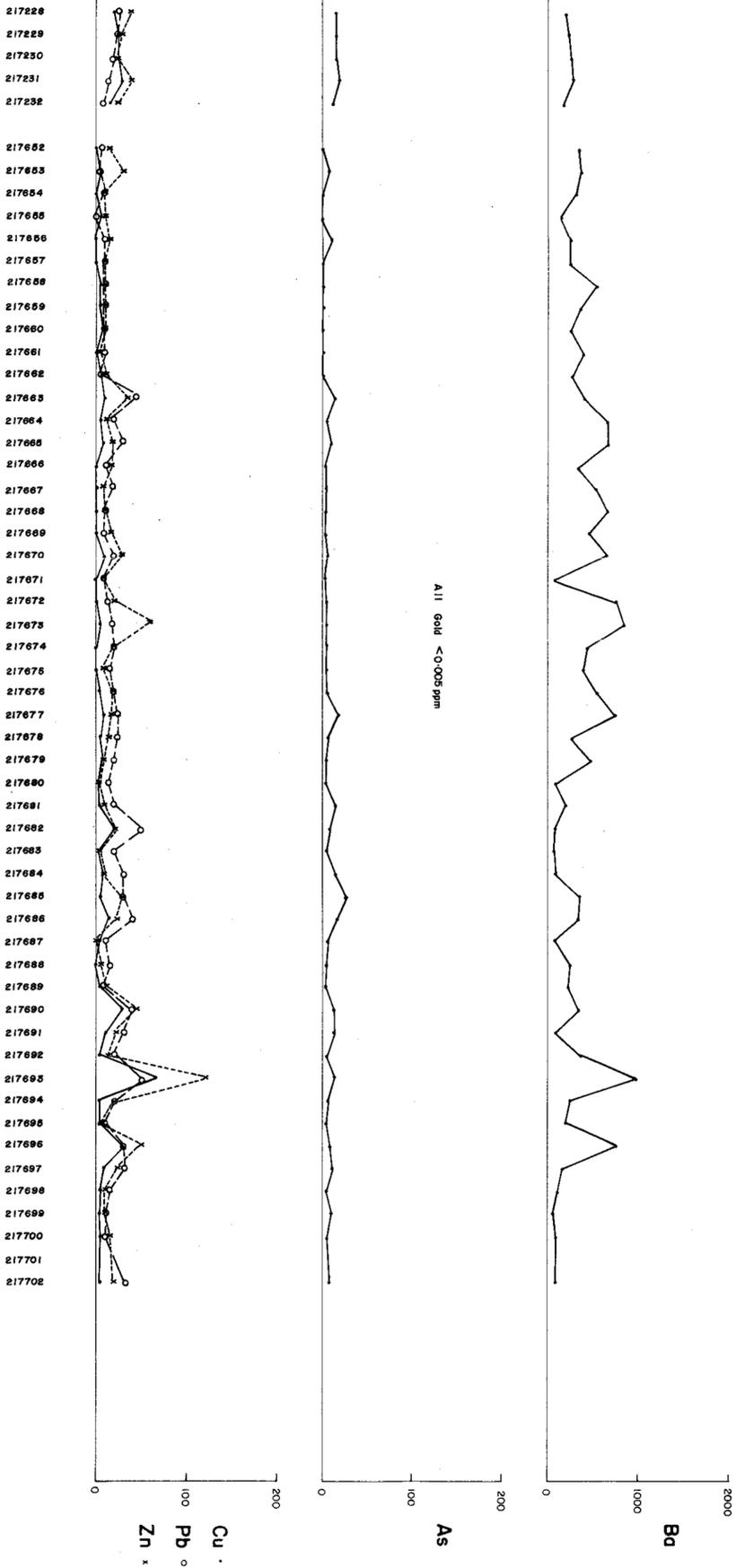
PROJECT: YOLANDE JV E.L. 11/85 TAS

NEWTON CREEK SOUTH SHEET

INTERPRETIVE GEOLOGY AND SAMPLE LOCATIONS

Scale: 1:10,000	Survey: 1 MAT	Revised:
Reference:	Date: May, 1988	Ref. No.
Drawn: R. Patlock	Checked:	

REPORT 594 7533 ENCLOSURE 2



ROCK CHIP GEOCHEMISTRY

	Cu	Pb	Zn	Ag	As	Au	Bz
217283	195	<5	145	1-5	3	<0.005	497
217284	20	<5	90	1-5	1	<0.005	219
217285	40	<5	70	1-0	11	<0.005	193
217286	15	<5	20	1-0	1	<0.005	133
217287	NA						

759180

88-2837

CYPRUS MINERALS AUST. CO.

YOLANDE J.V. E.L. 11/85

NEWTON CREEK

INTERPRETIVE GEOLOGICAL SECTION

8 SOIL/ROCK GEOCHEMISTRY

LINE 12 N

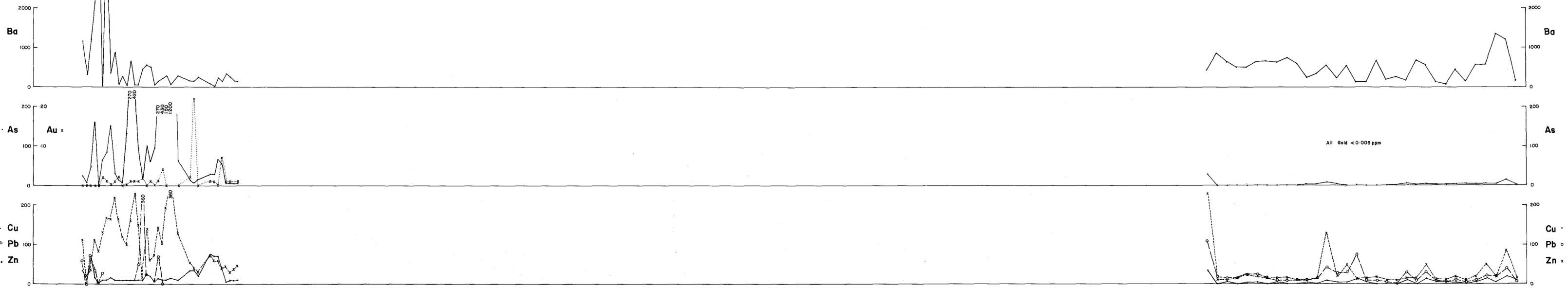
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FIG.

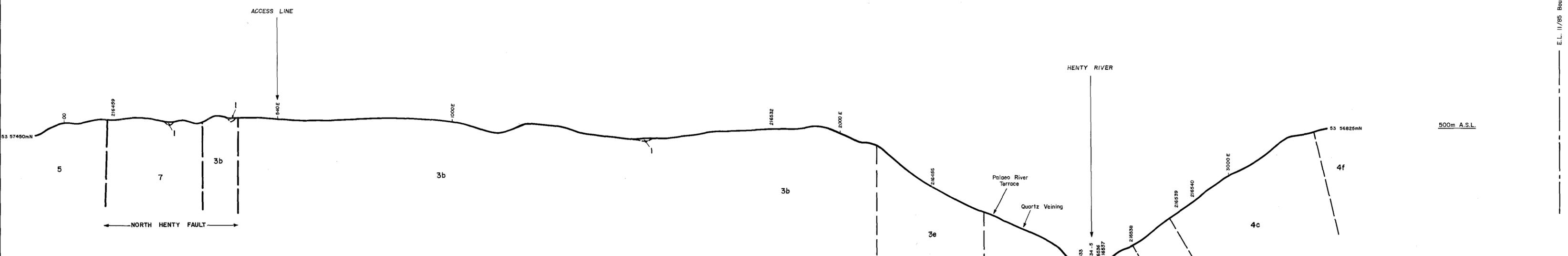
SCALE: 1:5000



NOTE:
Refer to 1:10,000 Geological Interpretation Plan for Legend.



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ROCK CHIP GEOCHEMISTRY

	Cu	Pb	Zn	Ag	As	Au	Ba	Ni	Cr
216459	<5	<5	85	<0.5	1	<0.005	4310	820	1050
216532	15	<5	55	<0.5	12	0.01	199	80	50
216455	10	<5	<5	<0.5	2	<0.005	22	10	10
216535	10	70	105	<0.5	2	<0.005	369	20	20
216534	40	<5	30	<0.5	3	0.02	88	10	10
216535	10	<5	20	<0.5	7	0.01	118	10	10
216536	5	<5	25	<0.5	5	<0.005	121	10	5
216537	5	<5	25	<0.5	3	0.01	135	10	10
216538	20	<5	100	<0.5	6	<0.005	647	5	<5
216539	NA								
216540	10	<5	50	<0.5	7	<0.005	702	15	25

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'WACKA' Bedrock Samples

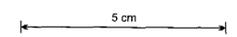
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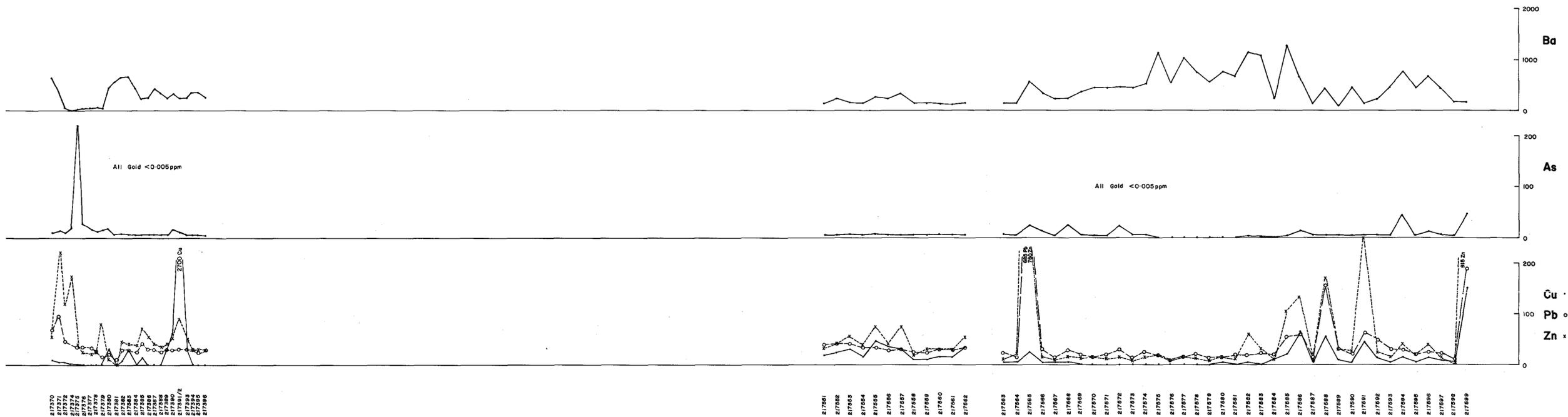
CYPRUS MINERALS AUST. CO.
YOLANDE J.V. E.L. 11/85
NEWTON CREEK
INTERPRETIVE GEOLOGICAL SECTION
& SOIL/ROCK GEOCHEMISTRY
LINE 14 N

SCALE: 1:5000
50 0 100 200
METRES

FIG. 4

NOTE:
Refer to 1:10,000 Geological Interpretation Plan for Legend.

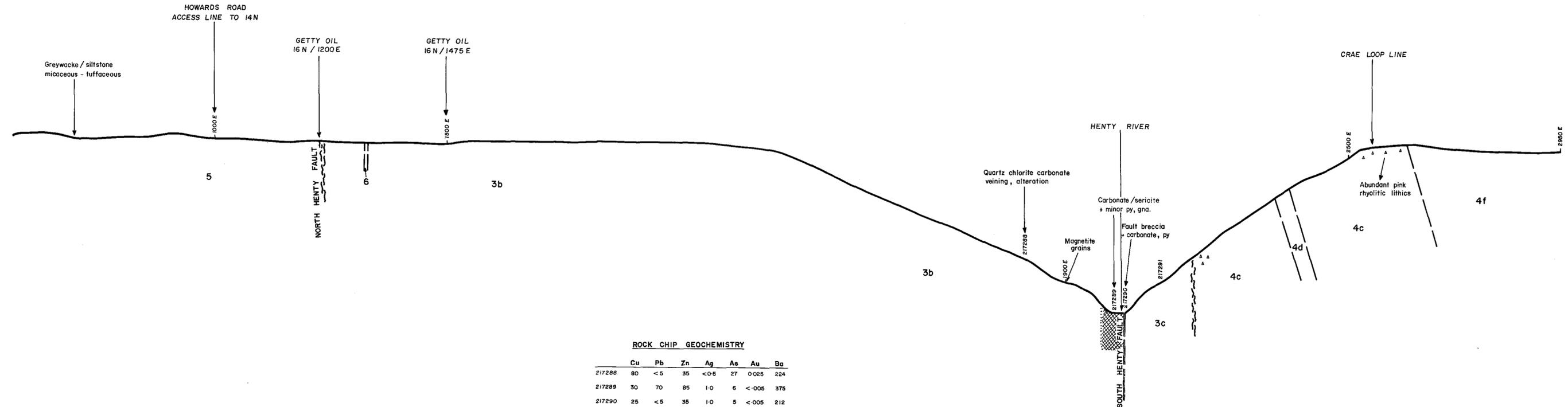




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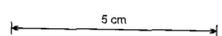
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ROCK CHIP GEOCHEMISTRY

	Cu	Pb	Zn	Ag	As	Au	Ba
217288	80	<5	35	<0.5	27	0.025	224
217289	30	70	85	1.0	6	<0.005	375
217290	25	<5	35	1.0	5	<0.005	212
217291	50	445	400	1.0	55	<0.005	482

NOTE:
Refer to 1:10,000 Geological Interpretation Plan for Legend.



500m A.S.L.

759182

88-2837

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NEWTON CREEK

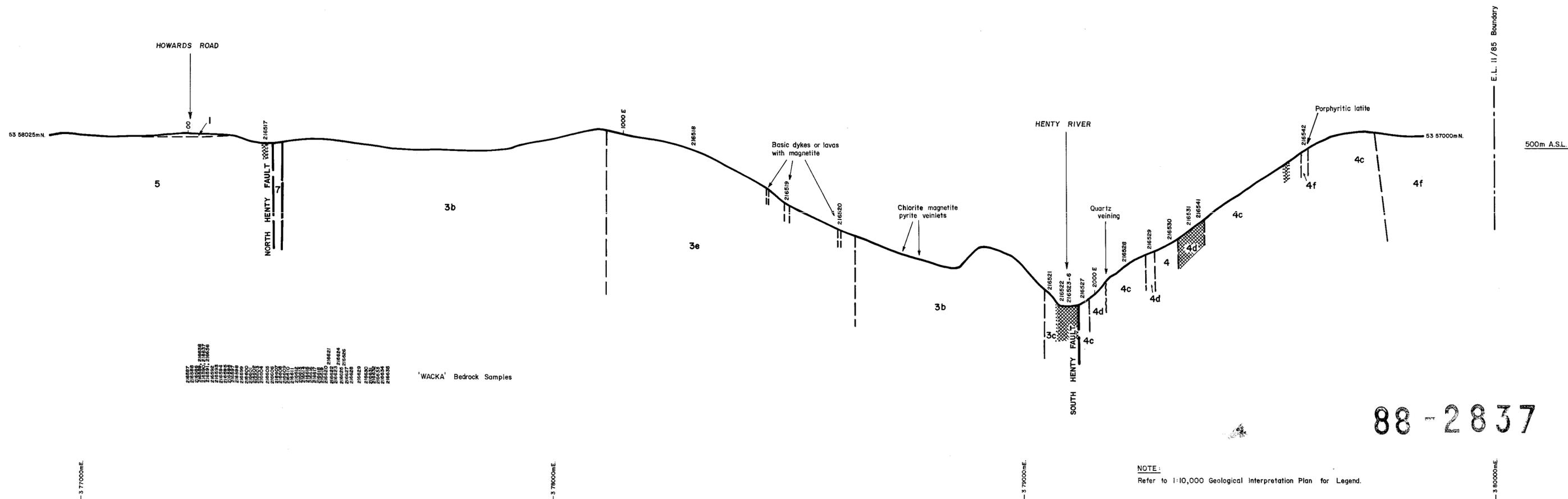
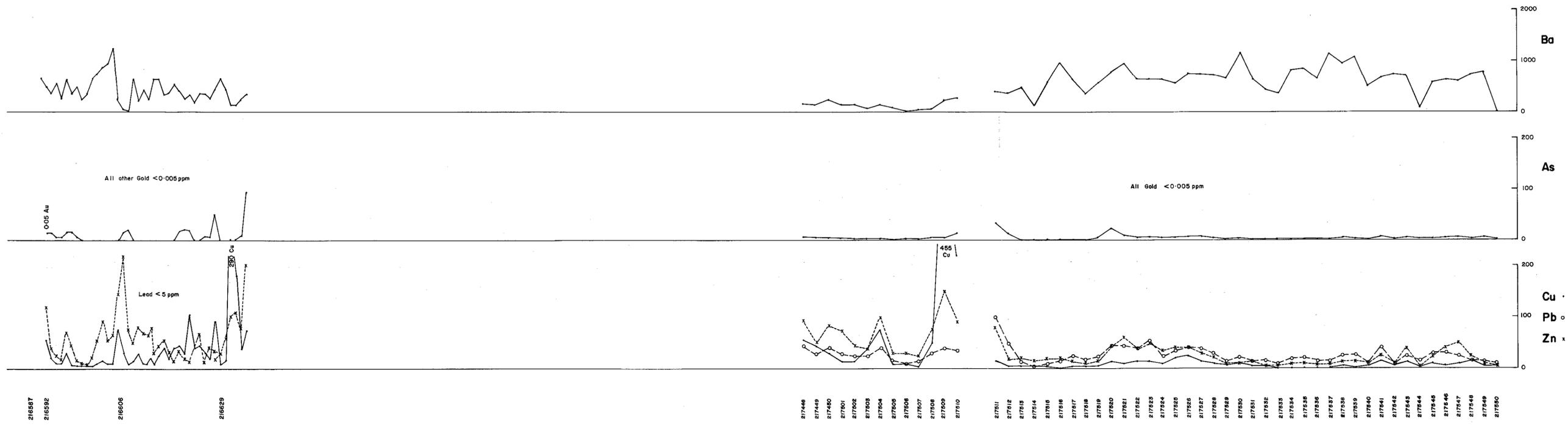
INTERPRETIVE GEOLOGICAL SECTION
& SOIL/ROCK GEOCHEMISTRY
LINE 16 N

SCALE: 1:5000

50 0 100 200
METRES

FIG.

DRAWN BY: R. Pritch
DRAFTSMAN: T.G.D.S.
DATE: April 1988
REVISIONS:
FILE No.



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'WACKA' Bedrock Samples

ROCK CHIP GEOCHEMISTRY

	Cu	Pb	Zn	Ag	As	Au	Ba
216517	20	<5	15	<0.5	6	<.005	583
216518	NA						
216519	215	<5	80	<0.5	1	<.005	595
216520	NA						
216521	20	<5	20	<0.5	18	<.005	268
216522	20	280	850	<0.5	33	<.005	249
216523	5	<5	90	0.5	9	<.005	415
216524	30	175	25	0.5	63	0.10	208
216525	10	25	50	<0.5	7	<.005	71
216526	15	<5	65	<0.5	11	<.005	70
216527	5	<5	70	<0.5	6	<.005	387
216528	NA						
216529	NA						
216530	10	<5	65	<0.5	11	<.005	1300
216531	40	<5	65	<0.5	10	0.02	781
216541	5	<5	30	<0.5	10	0.02	688
216542	NA						

759183

88-2837

NOTE:
Refer to 1:10,000 Geological Interpretation Plan for Legend.

CYPRUS MINERALS AUST. CO.

YOLANDE J.V. E.L. 11/85
NEWTON CREEK

INTERPRETIVE GEOLOGICAL SECTION
& SOIL/ROCK GEOCHEMISTRY

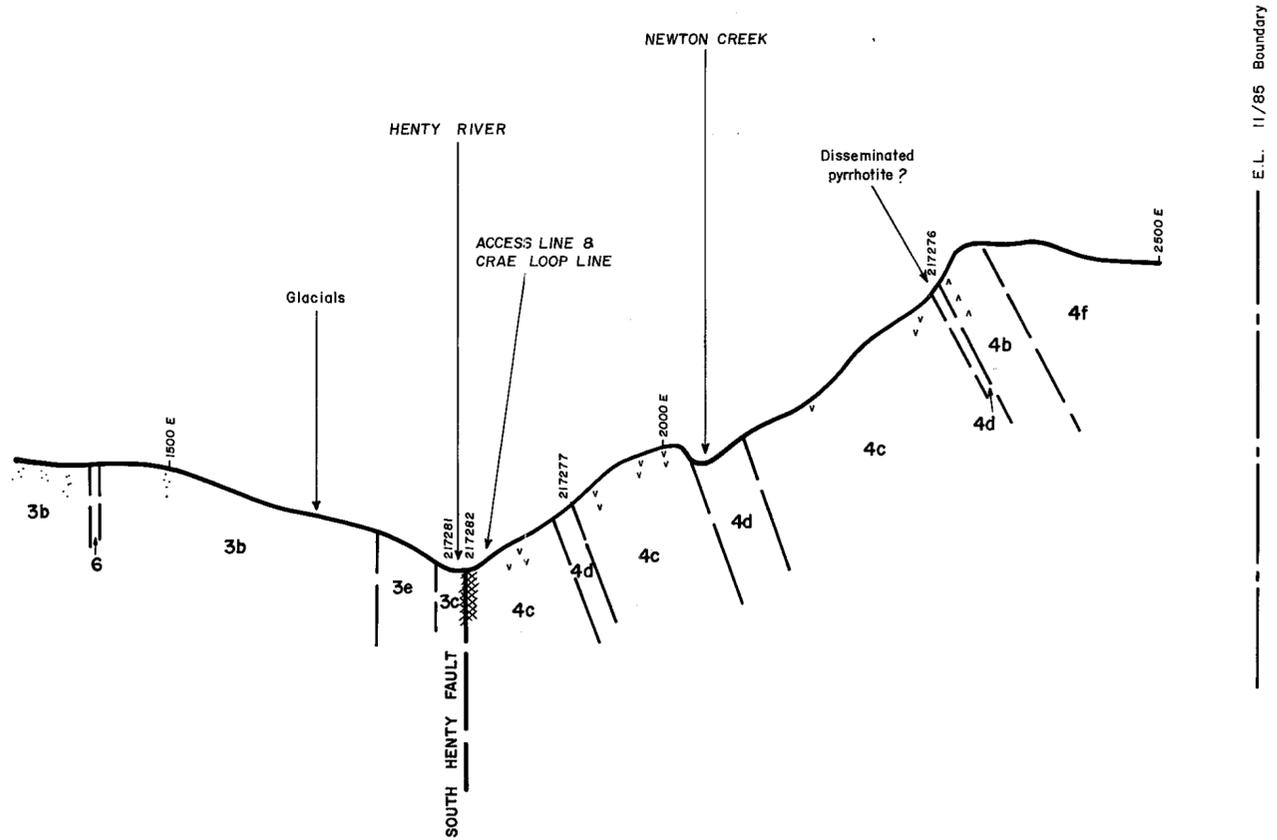
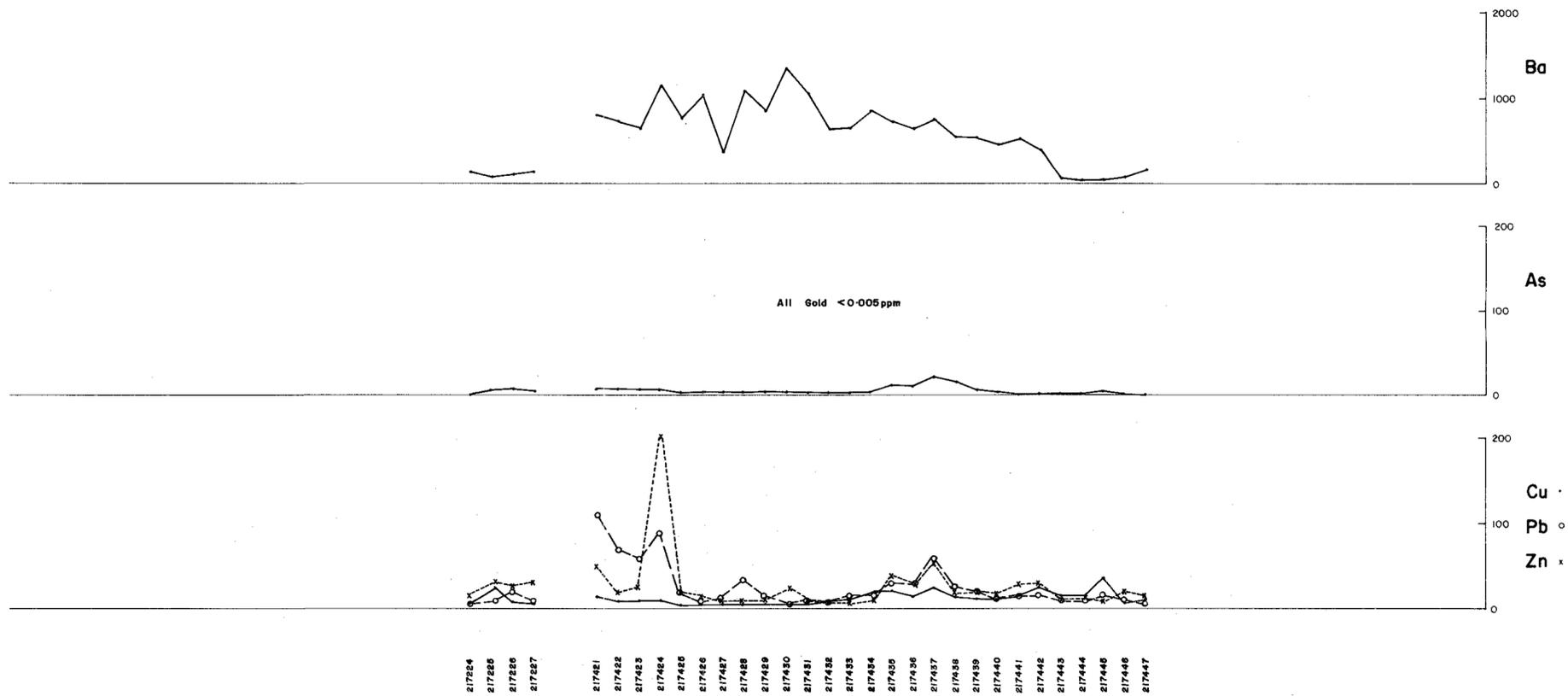
LINE 18N

SCALE: 1:5000

50 0 100 200 METRES

FIG.

DRAWN BY: R. Pollock
DRAFTSMAN: T.G.D.S.
DATE: April 1988
REVISIONS:
FILE No.



ROCK CHIP GEOCHEMISTRY

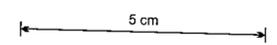
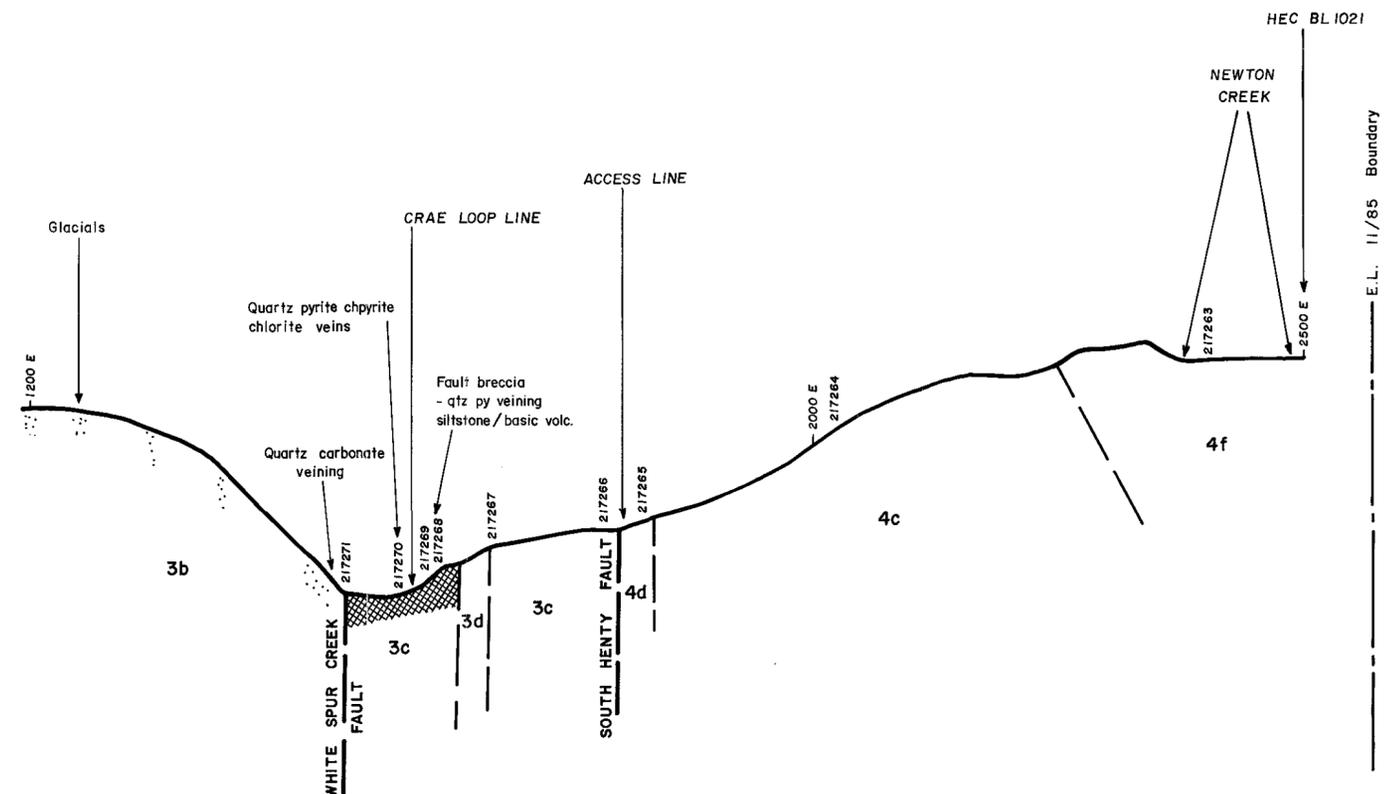
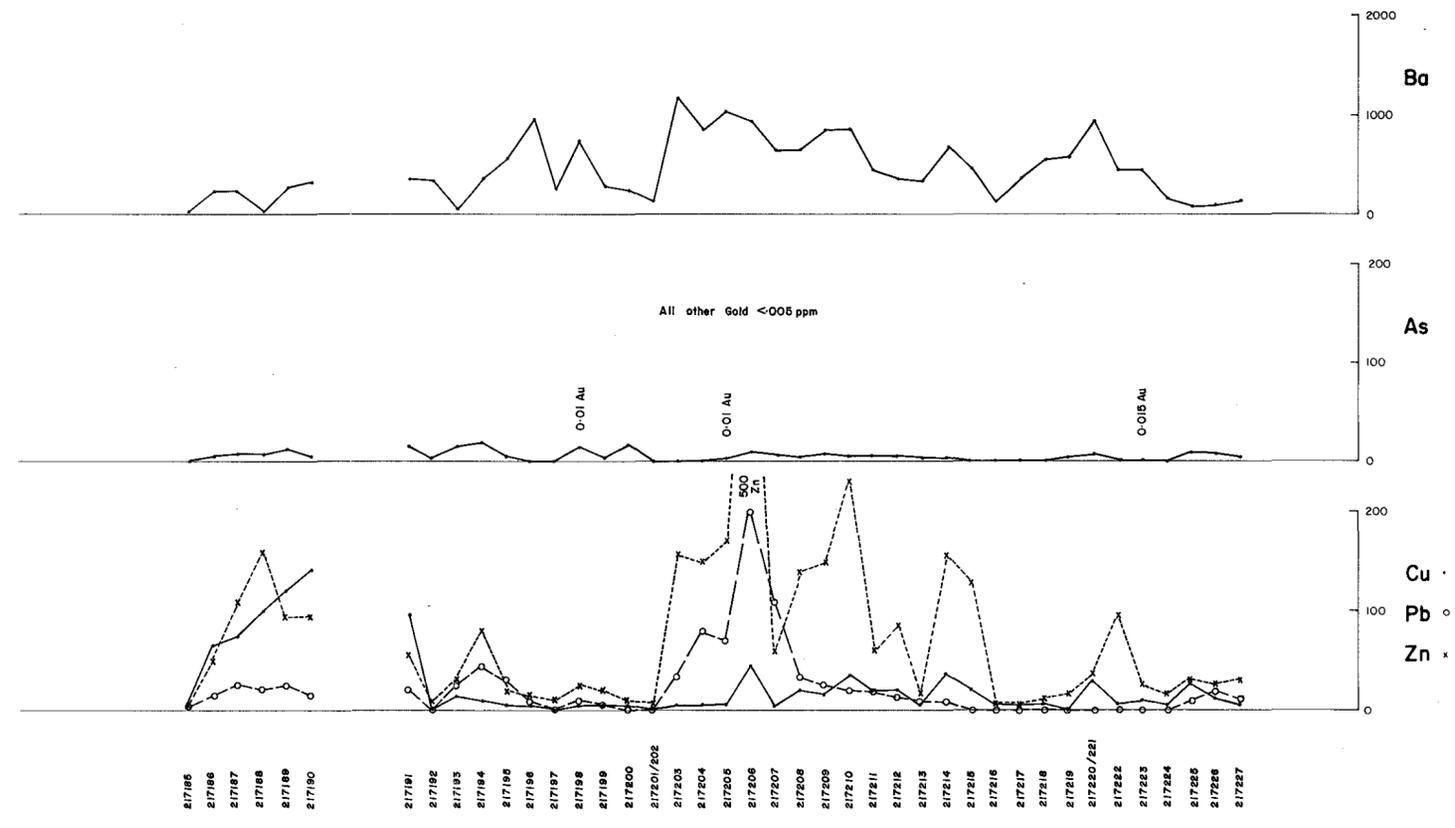
	Cu	Pb	Zn	Ag	As	Au	Ba
217276	30	10	80	1.0	26	<.005	732
217277	30	885	1000	2.0	66	<.005	486
217281	10	<.5	25	1.0	5	<.005	256
217282	NA						

759184
88-2837

NOTE:
 Refer to 1:10,000 Geological Interpretation Plan for Legend.

CYPRUS MINERALS AUST. CO.	
YOLANDE J.V. E.L. 11/85 NEWTON CREEK	
DRAWN BY: R. Pollock	DRAFTSMAN: T.G.D.S.
DATE: April 1988	REVISIONS:
FILE No.	FIG.

SCALE: 1:5000



ROCK CHIP GEOCHEMISTRY

	Cu	Pb	Zn	Ag	As	Au	Ba
217263	NA						
217264	NA						
217265	10	<5	95	1.0	8	<.005	189
217266	10	5	165	1.0	20	<.005	189
217267	60	5	105	1.5	12	0.02	118
217268	35	<5	60	2.0	10	<.005	220
217269	2000	<5	65	1.0	2	<.005	160
217270	870	<5	40	1.0	3	<.005	211
217271	55	15	120	1.5	6	<.005	221

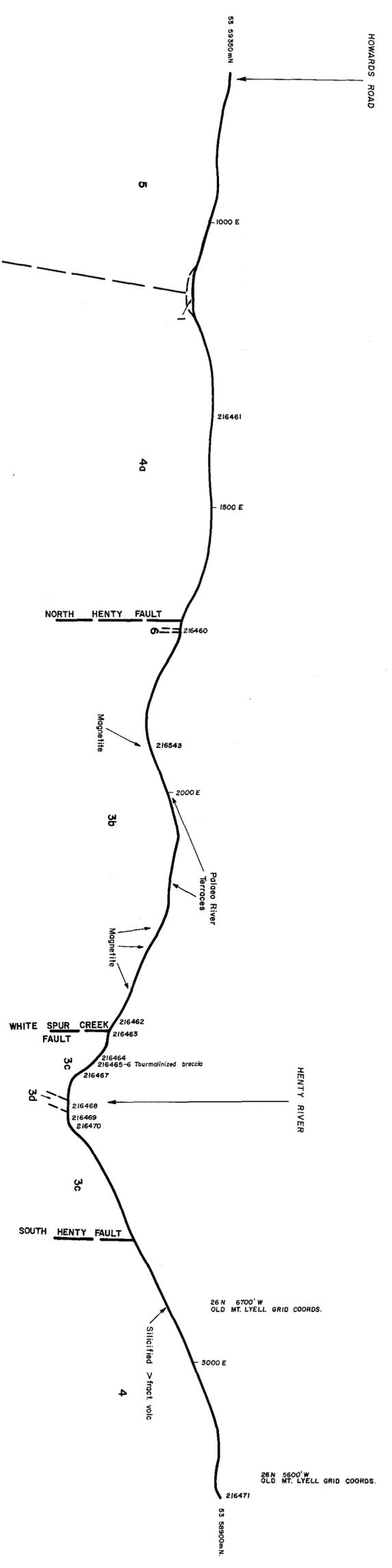
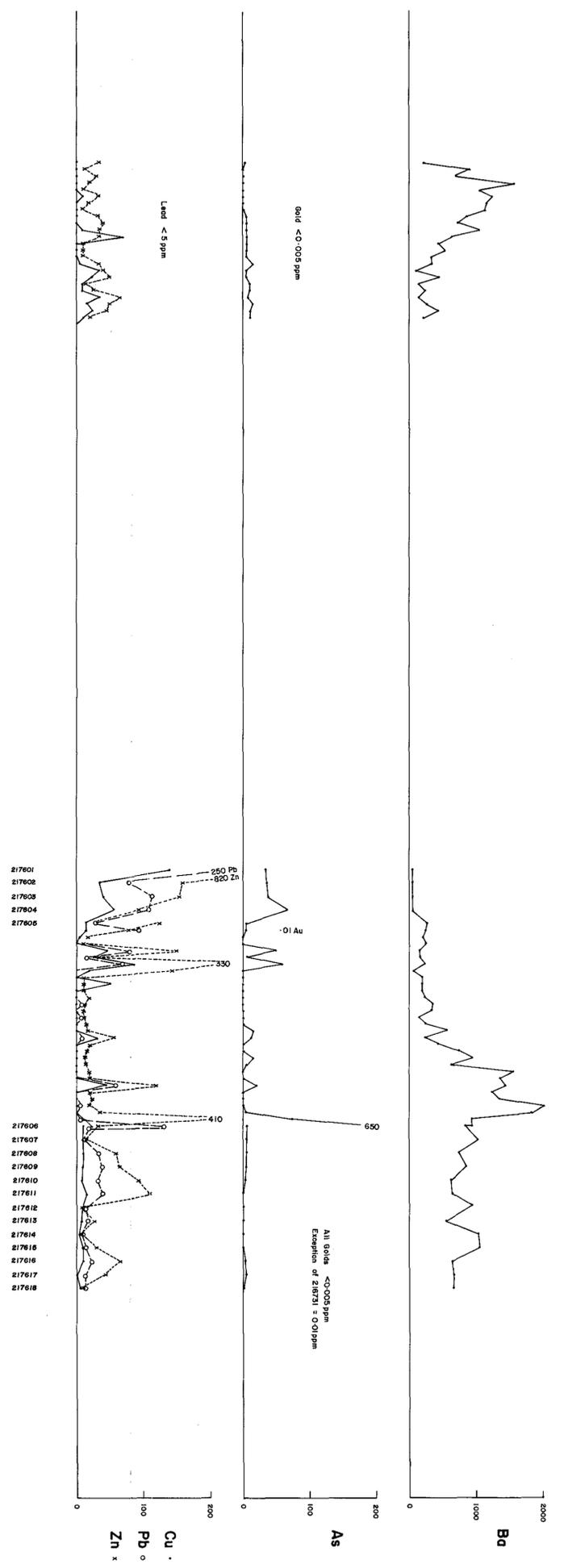
759185

88-2837

CYPRUS MINERALS AUST. CO.	
YOLANDE J.V. E.L. 11/85 NEWTON CREEK	
INTERPRETIVE GEOLOGICAL SECTION & SOIL/ROCK GEOCHEMISTRY LINE 22 N	
SCALE: 1:5000	FIG.

DRAWN BY: R Pollock
DRAFTSMAN: T.G.D.S.
DATE: April 1988
REVISIONS:
FILE No.:

NOTE:
Refer to 1:10,000 Geological Interpretation Plan for Legend.



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AUGER B/C Horizon Samples

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'WACKA' Bedrock Samples

NOTE:
Refer to 1:10,000 Geological Interpretation Plan for Legend.

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ROCK CHIP GEOCHEMISTRY

	Cu	Pb	Zn	Ag	As	Au	Bi
216460	135	<5	75	<0.5	2	<0.05	180
216461	10	<5	40	<0.5	66	<0.05	631
216462	25	<5	80	<0.5	3	<0.05	285
216463	10	<5	10	<0.5	3	<0.05	277
216464	70	5	70	<0.5	33	<0.05	142
216465	85	<5	80	<0.5	81	<0.05	183
216466	35	<5	10	<0.5	64	<0.05	130
216467	5	<5	20	<0.5	13	<0.05	598
216468	NA						
216469	65	25	220	<0.5	12	<0.05	300
216470	150	70	200	<0.5	720	<0.05	155
216471	NA						
216443	60	<5	115	<0.5	2	0.01	168

50m

CYPRUS MINERALS AUST. CO.

YOLANDE JV E.L. 11/85
NEWTON CREEK

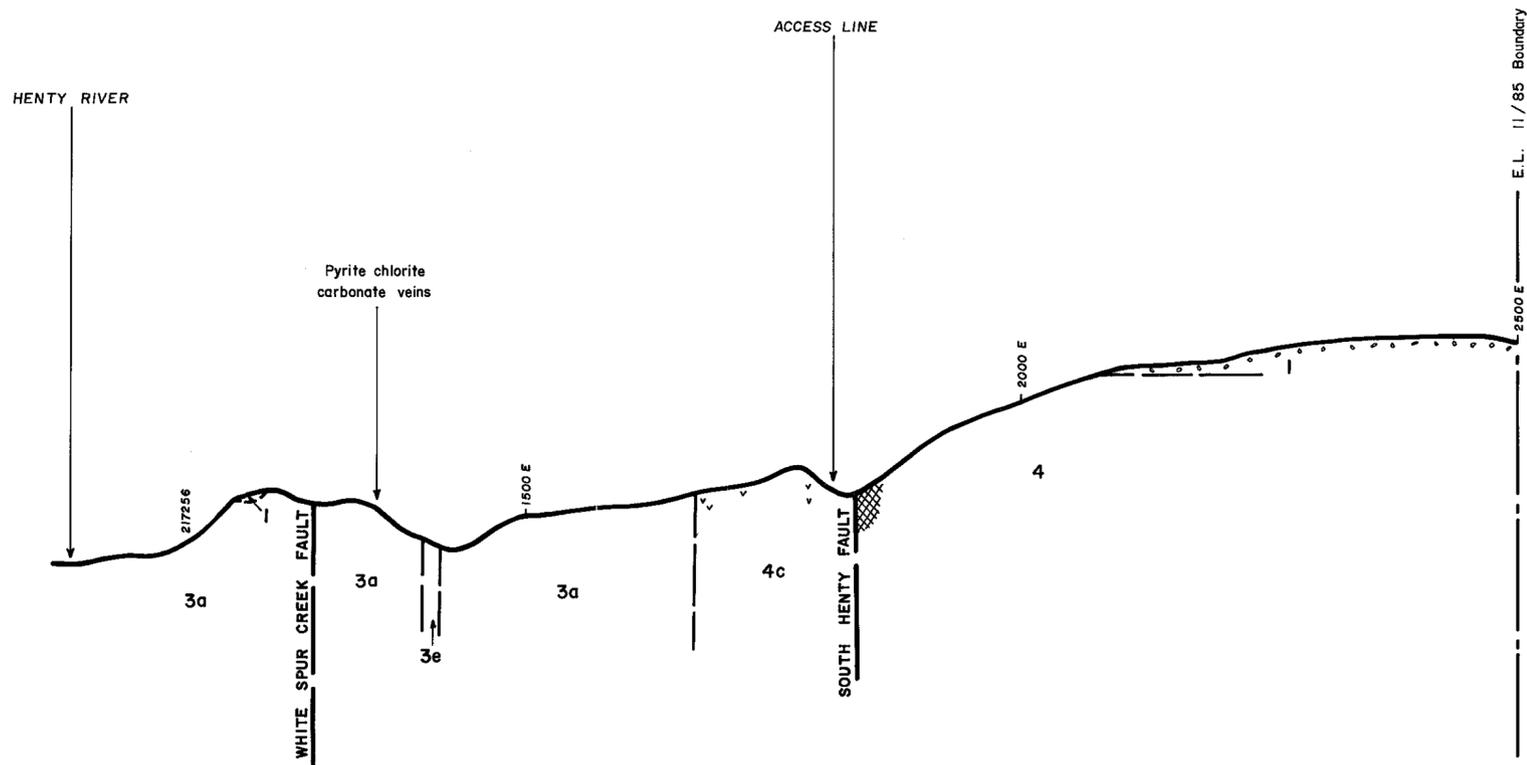
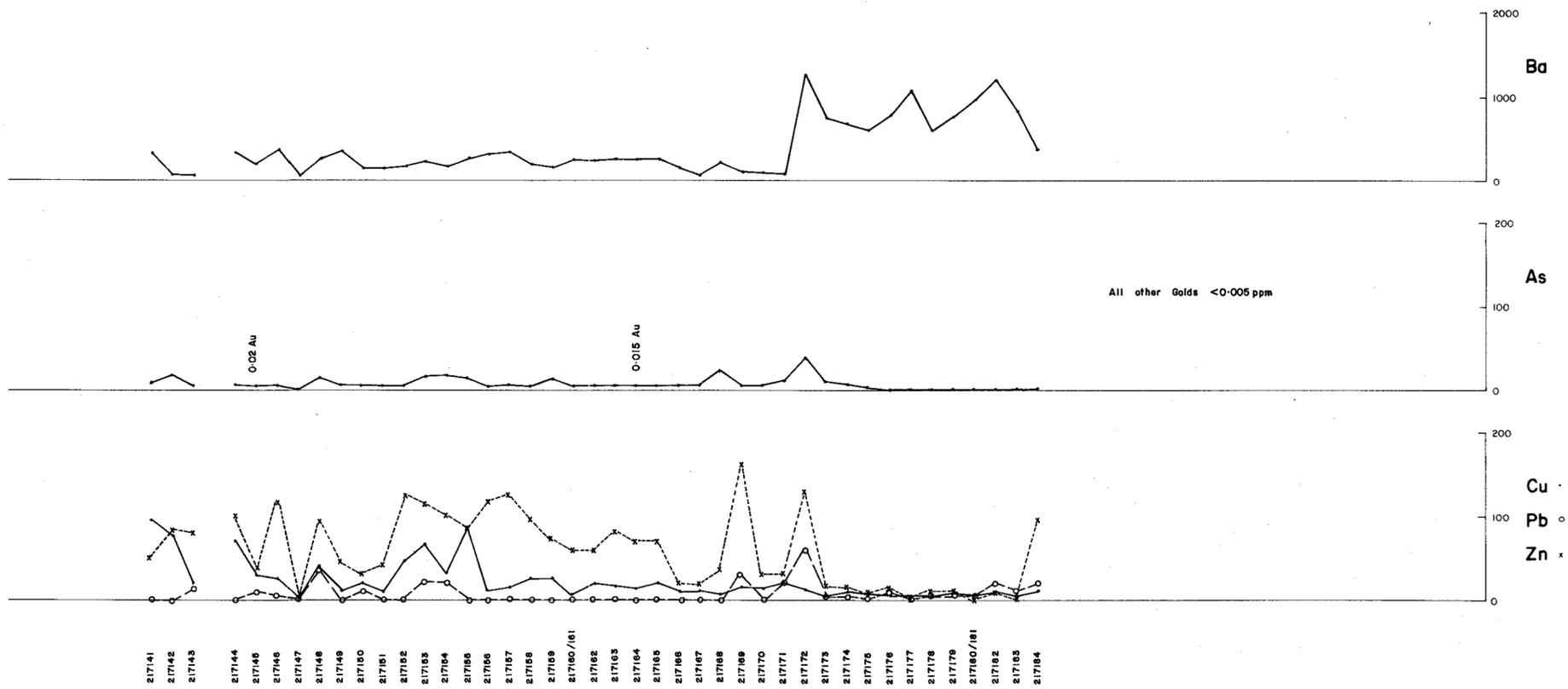
INTERPRETIVE GEOLOGICAL SECTION
& SOIL/ROCK GEOCHEMISTRY
LINE 24 N

SCALE: 1:5000

DATE: April 1988

FILE NO.

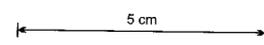
FIG.



ROCK CHIP GEOCHEMISTRY

	Cu	Pb	Zn	Ag	As	Au	Ba
217256	25	<5	85	0.5	3	0.005	202

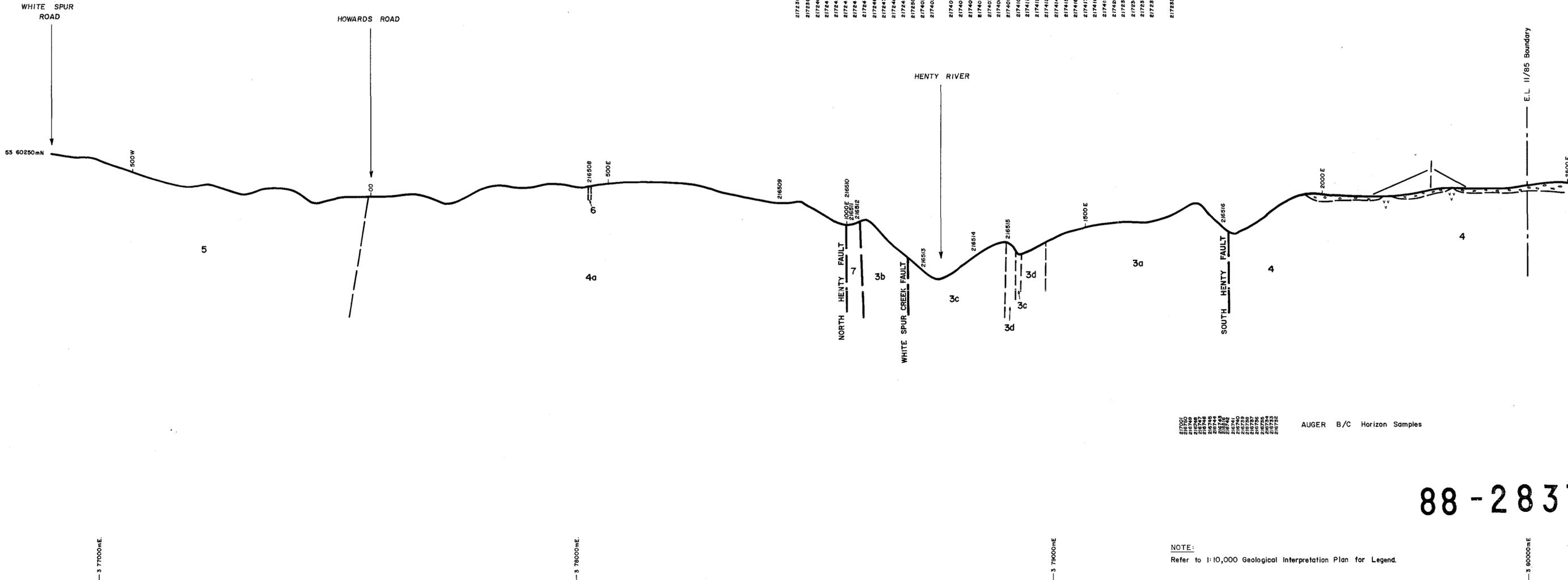
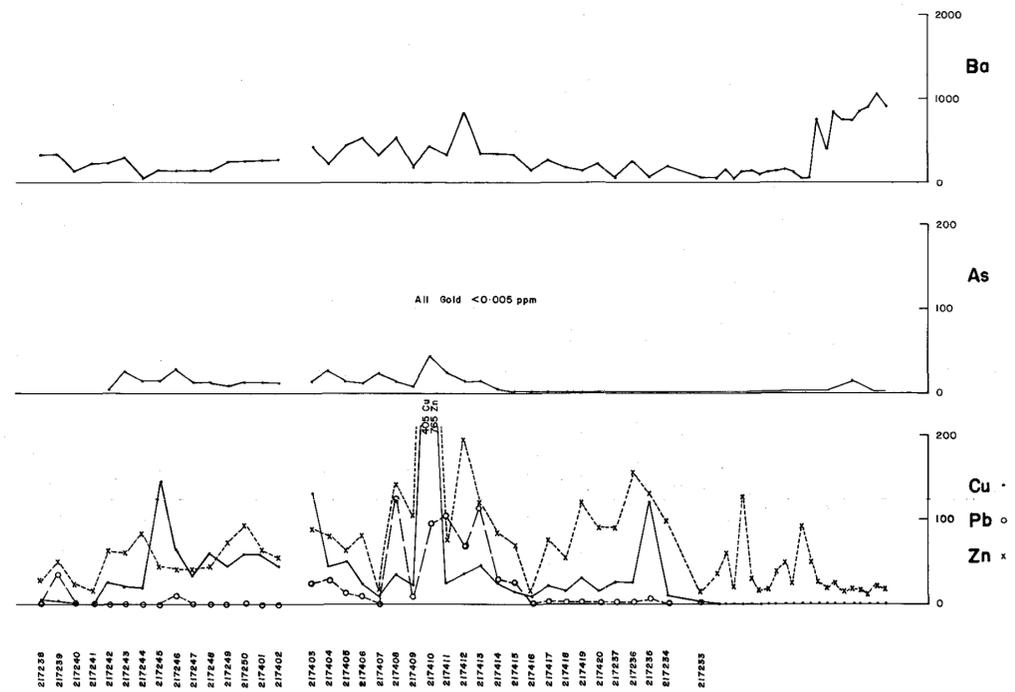
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NOTE:
Refer to 1:10,000 Geological Interpretation Plan for Legend.

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DATE: April 1988	REVISIONS:
INTERPRETIVE GEOLOGICAL SECTION & SOIL/ROCK GEOCHEMISTRY LINE 26 N	
SCALE: 1:5000	FILE No.
	FIG.



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AUGER B/C Horizon Samples

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500m A.S.L. 5 cm

ROCK CHIP GEOCHEMISTRY

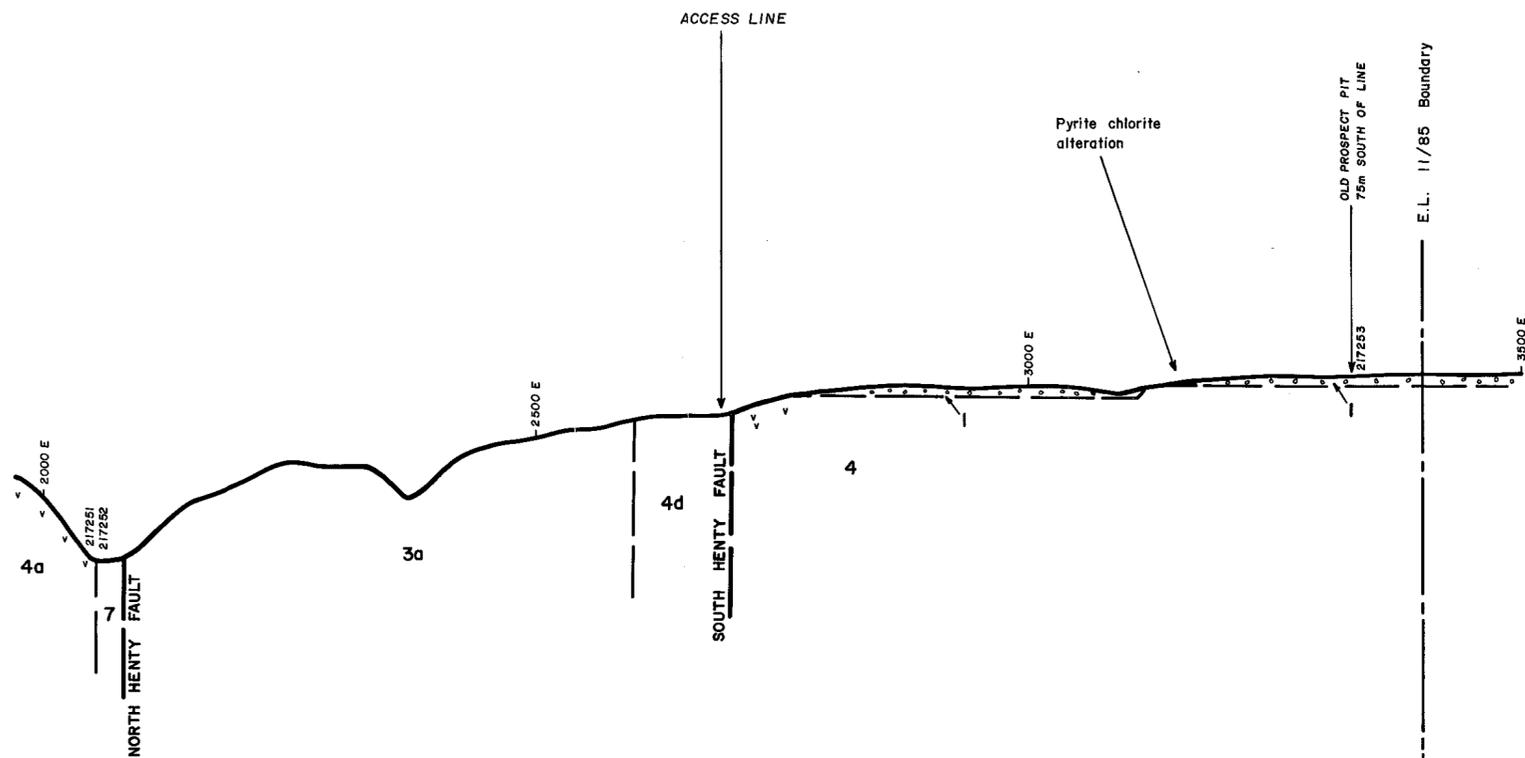
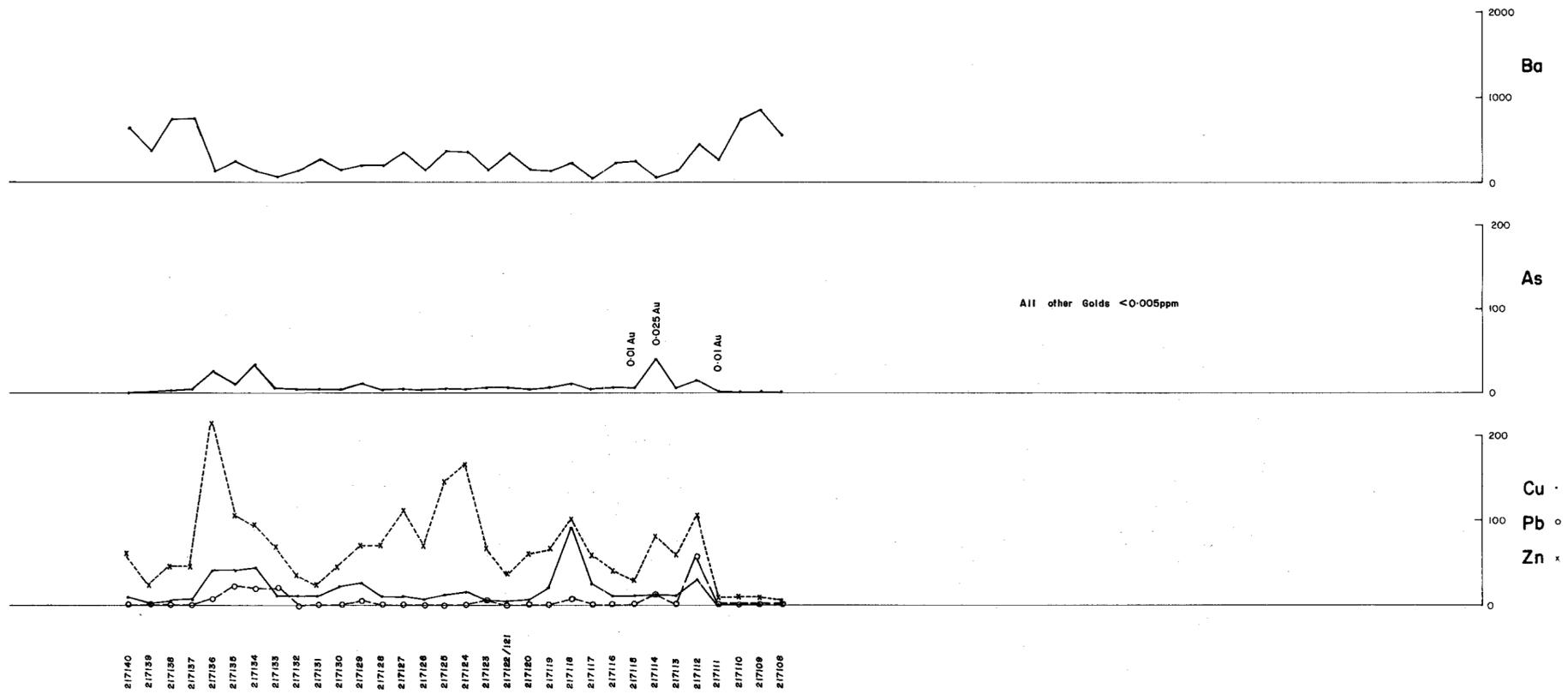
	Cu	Pb	Zn	Ag	As	Au	Ba
216508	NA						
216509	NA						
216510	20	<5	75	<0.5	14	<0.05	338
216511	5	<5	10	<0.5	16	<0.05	10
216512	10	<5	90	<0.5	300	<0.05	16
216513	40	<5	55	<0.5	6	<0.05	142
216514	15	<5	55	<0.5	14	<0.05	262
216515	330	<5	95	<0.5	15	<0.05	321
216516	5	<5	25	<0.5	3	<0.05	113

88-2837

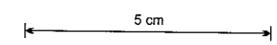
NOTE:
Refer to 1:10,000 Geological Interpretation Plan for Legend.

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INTERPRETIVE GEOLOGICAL SECTION & SOIL/ROCK GEOCHEMISTRY	
LINE 28N	
SCALE: 1:5000	FIG.

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DRAFTSMAN: T.G.D.S.
DATE: April 1988
REVISIONS:
FILE No.



759189



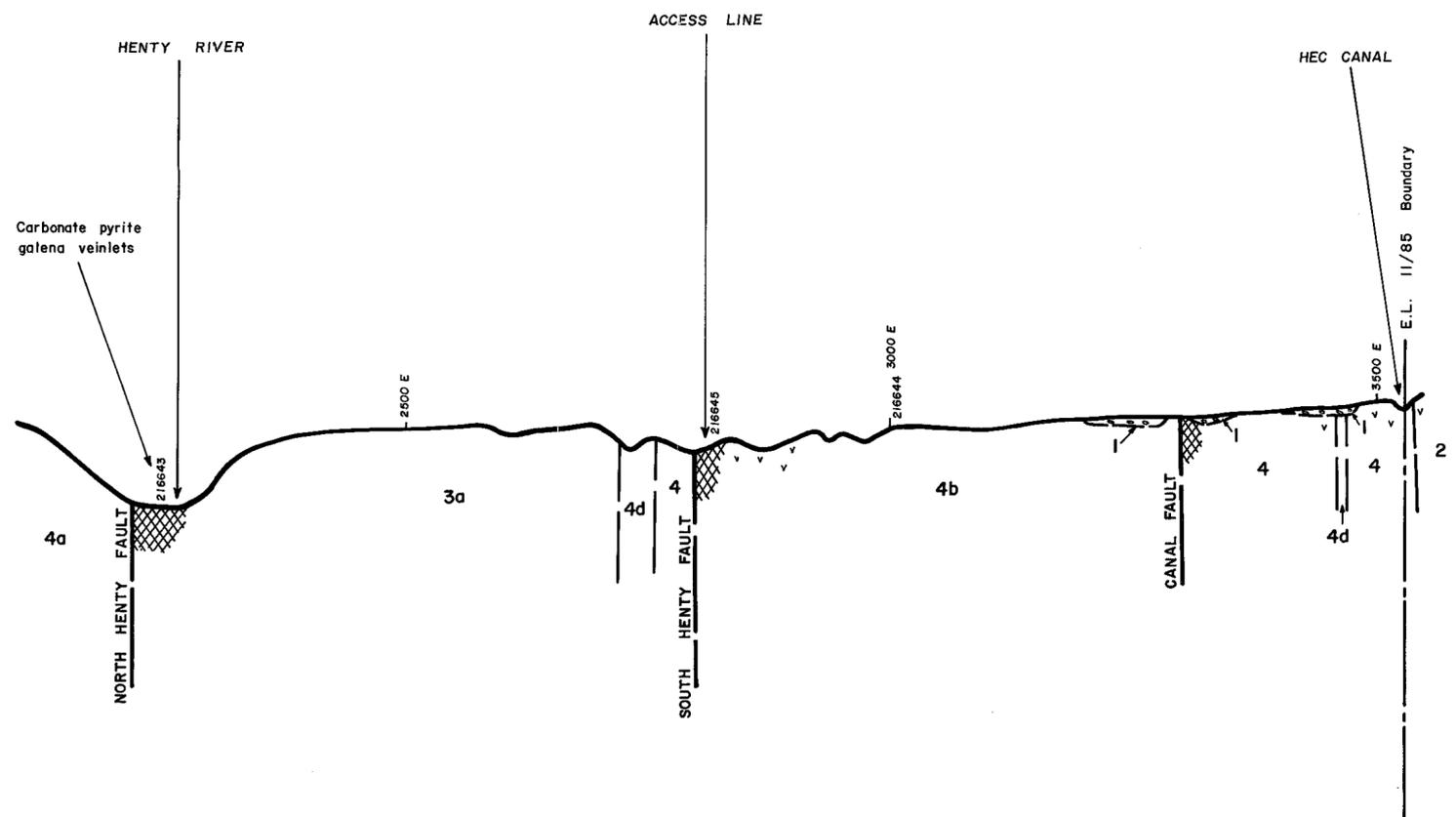
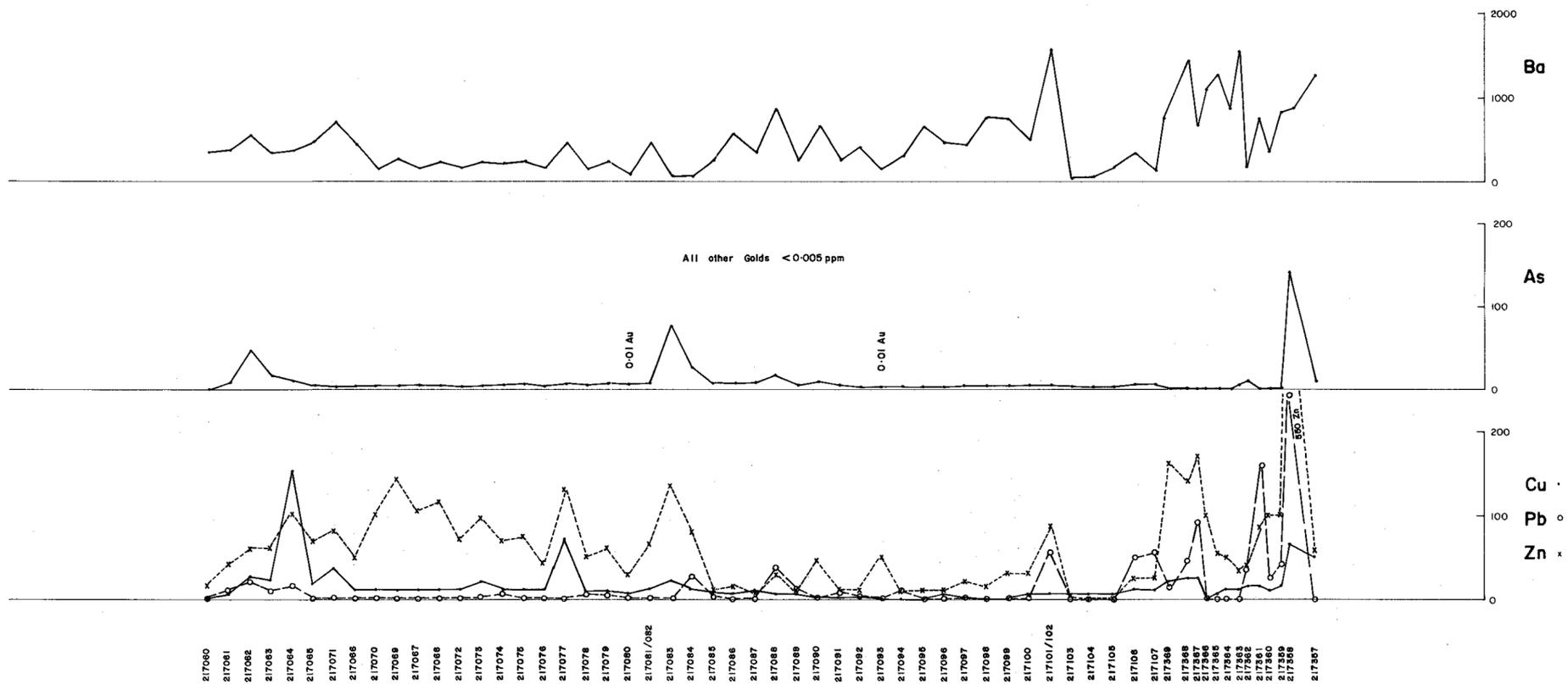
ROCK CHIP GEOCHEMISTRY

	Cu	Pb	Zn	Ag	As	Au	Ba
217251	20	10	50	<0.5	2	<0.05	1090
217252	110	10	95	<0.5	29	<0.05	218
217253	20	60	390	<0.5	6	0.07	308

88-2837

NOTE:
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INTERPRETIVE GEOLOGICAL SECTION & SOIL/ROCK GEOCHEMISTRY LINE 30 N	
SCALE: 1:5000	FILE No.
50 0 100 200 METRES	FIG.



759190

5 cm

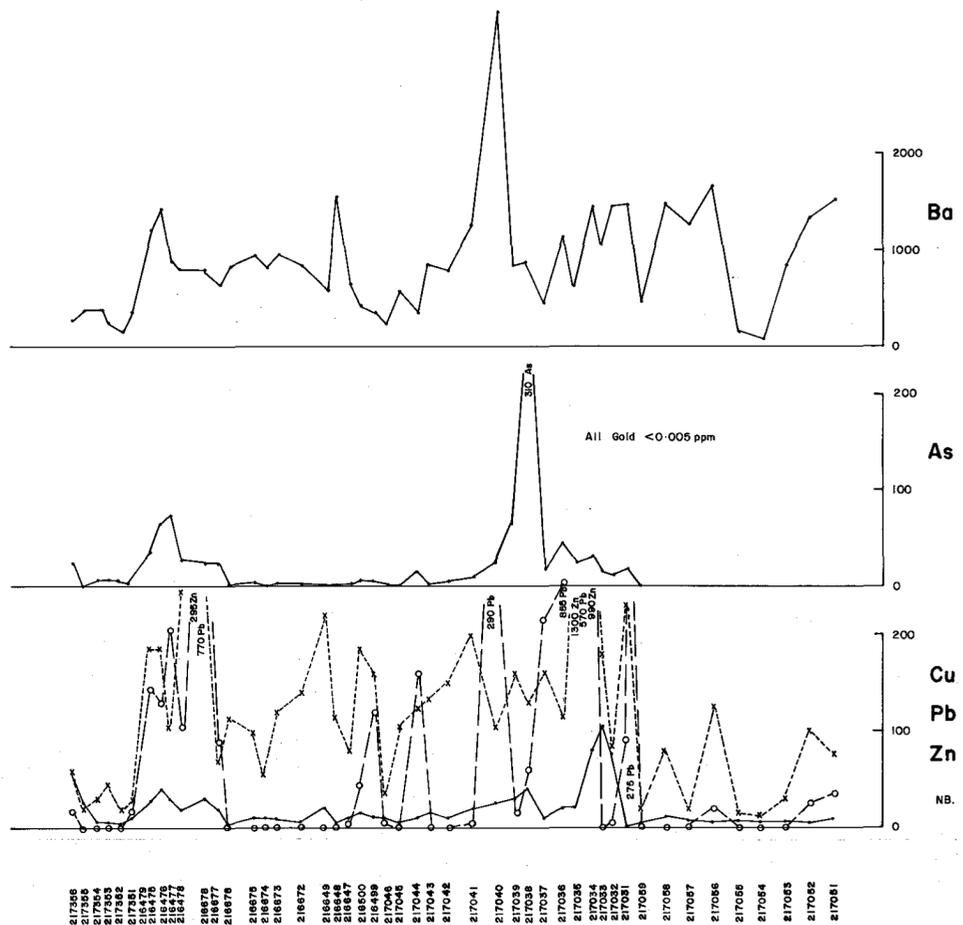
ROCK CHIP GEOCHEMISTRY

	Cu	Pb	Zn	Ag	As	Au	Ba
216643	55	335	180	0.5	18	<.005	345
216644	20	220	60	3.0	15	<.005	632
216645	30	435	1900	2.0	28	<.005	1160

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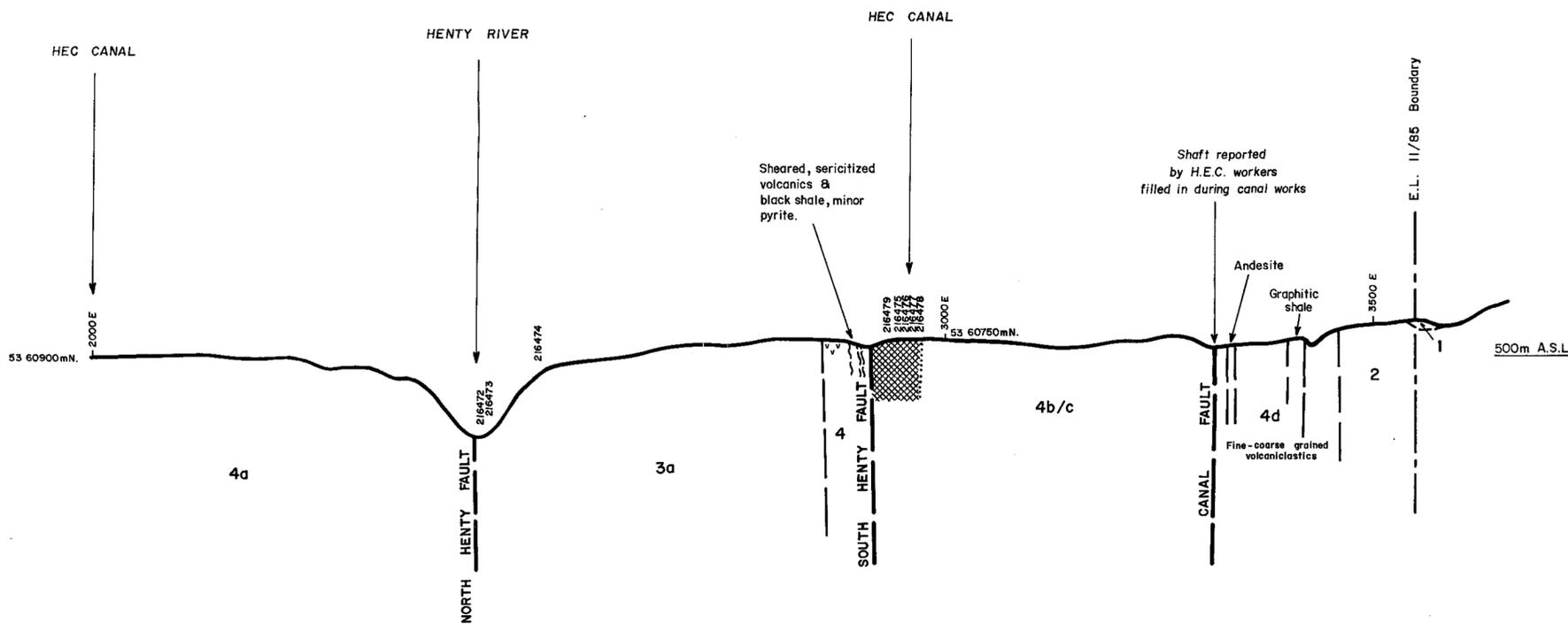
NOTE
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INTERPRETIVE GEOLOGICAL SECTION & SOIL/ROCK GEOCHEMISTRY LINE 32 N	
SCALE: 1:5000	FILE No.
50 0 100 200 METRES	FIG.

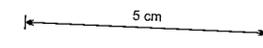


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NB. Samples between 2925 E - 3425 E
rock chip analysis extrapolated
from canal sampling to LINE 33N.



759191



ROCK CHIP GEOCHEMISTRY

	Cu	Pb	Zn	Ag	As	Au	Ba
216472	40	55	40	<0.5	12	<0.005	766
216473	150	60	85	<0.5	62	0.01	440
216474	45	55	115	<0.5	4	<0.005	524

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LINE 33 N	
SCALE: 1:5000	FILE No.
50 0 100 200 METRES	
FIG.	

NOTE:
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