

807001

95-3720

**ANNUAL TECHNICAL REPORT  
TO APRIL 1995**

**EL 17/93 LUINA**

a report for

**MPI GOLD PTY LTD**  
Level 3, 1 Walker Avenue  
West Perth WA 6005

**MICROFILMED**  
**FICHE No.013561-**

MINES		
REF. EL17103		
17 APR 1995		
ANNUAL REP.		
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by

**ROGER POLTOCK**  
Geological Consultant

95-3720

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## 1. SUMMARY

EL 17/93 has the potential to host vein and skarn type base and precious metal mineralisation.

MPI's exploration during the first year of tenure included a literature search, stream and rock geochemistry and a limited appraisal of mineralisation at Magnet and Arthur Dam. Results of this work include:

- Location of a 4km<sup>2</sup> Au-Sb stream sediment anomaly over mafic to andesitic volcanics in the contact metamorphic aureole of the Meredith Granite. The anomaly may reflect elevated backgrounds in the volcanics or vein style mineralisation similar to that in drill holes at Arthur Dam.
- A 40ppb Au BLEG stream anomaly NE of the Magnet mine has not been explained and may be due to contamination (field or laboratory) or unidentified mineralisation. Placer, the previous tenement holder also recorded gold anomalies in streams in this area.
- Pyrrhotite-chalcopyrite veins in DDH AD-1 and various vein types from the Magnet Mine were assayed for gold with disappointing results.

## 2. INTRODUCTION

This report describes work completed by MPI Gold in the first licence year of EL 17/93.

The licence is located 8km SW of Waratah in western Tasmania Fig .1 and can be accessed by the sealed Savage River road and old mining and logging tracks.

Aberfoyle's abandoned Cleveland Tin mine lease is surrounded by EL 17/93.

## 3. REGIONAL GEOLOGY AND EXPLORATION CONCEPTS

EL 17/93 covers an area of Pre-cambrian to Ordovician rocks of the Dundas Trough in Western Tasmania. Lithologies include carbonates; mafic to intermediate volcanics and ultramafics (Brown 1986). The tenement straddles the NW contact aureole of the Devonian Meredith granite, a 300km<sup>2</sup> composite batholith comprising 10 different phases with characteristics of both S and I types (Comacho in Burrett and Martin 1989).

Potential for skarn and vein style Cu Pb Zn Sn W Ag Au mineralisation exists. Gravity surveys indicate that a north plunging granite ridge occurs beneath the licence, (Leaman, 1991) and reactive lithologies occur throughout the stratigraphy including limestone; dolomite and carbonatised mafics and ultramafics.

Production from the area covered by EL 17/93 includes the Magnet mine. Details are described by Cottle, 1953. Production was over the period 1895 - 1940 with a total of 37,395 tons of lead; 7,979,616 oz silver from 620,000 tons of ore. (The Electrolytic Zinc Co of Australasia processed the tailings for their zinc content in the 1970's. No other mining activity is documented within EL 17/93.) Mineralisation occurs within a breccia pipe at the intersection of two steeply dipping veins. Ore minerals are galena and sphalerite in an ankerite gangue hosted in carbonatised and fuchsite altered mafic to intermediate volcanics.

The abandoned Cleveland mine lease is surrounded by EL 17/93 and may revert to this tenement on relinquishment by Aberfoyle. Cleveland's resource is stated as 10.3 million tonnes grading 0.78% Sn and 0.33% Cu (approximately 50% mined; Burrett and Martin 1989). Mineralisation is carbonate replacement style above a tungsten enriched granite intrusive.

The abandoned Mount Bischoff tin mine is located 8km NE of the licence.

#### 4. PREVIOUS EXPLORATION

In 1936 the Tasmanian Department of Mines drilled five underground diamond drill holes totalling 218m. Brief summary logs are available. No ore intercepts are reported.

During the 1960's and 70's the EZ Co; Cleveland Tin and Comstaff carried out systematic exploration in the Magnet area, targeting Pb-Zn-Ag. A total of seven diamond drill holes were completed, testing the strike and depth continuity of mineralisation with only minor mineralisation being intersected. This period of activity is summarised by Ellis, 1989.

None of the drill core from the above programs is stored at the Mines Department and may have been lost.

During the 1980's the Mines Department carried out exploration on the Luina and Wombat Flats exempt areas (Collins 1983). This work included magnetic and Dighem surveys and soil geochemistry. The programme culminated in the drilling of two core holes at Arthur Dam. These intersected sheet-like pyrrhotite-chalcopyrite bearing quartz veins (DDH AD-1) and sphalerite-galena quartz stockwork veining (DDH AD-2) in Eocambrian volcanoclastics and andesites. Assay results include:

- DDH AD-1 169.00 - 196.00m : 27m @ 0.16% Cu  
and 217.00 - 224.00m : 7m @ 0.6% Cu.
- DDH AD-2 103.00 - 123.90m

20.9m @ 1.47% Pb; 3.11% Zn; 40.6 g/t Ag; 0.53 g/t Au.

Placer's exploration targeted gold mineralisation associated with the Eocambrian boninitic volcanics. Their work is detailed in Ellis 1989 and was a regional assessment utilising stream and rock geochemistry. Both BLEG and -80# stream gold anomalies were located near the Magnet mine and it was concluded that further work was not warranted due to the limited extent of anomalies and the interpreted association with mine contamination.

Although RGC's EL 12/90 (Halley 1992) did not cover MPI's Magnet lease the regional magnetics and gravity data compiled by them is relevant to exploration at Luina defining the sub-surface form of the Meredith Granite.

## 5. WORK COMPLETED BY MPI GOLD PTY LTD MAY 1994 - APRIL 1995

### 5.1 Stream Sediment Geochemistry

Conventional -80# and -16# BLEG stream sampling has been completed over mafic and ultramafic lithologies in the contact metamorphic aureole of the Meredith Granite. Sample locations are plotted on Figure 2.

A nominal 5kg of active stream sediment was collected from flood level in the streams. The samples were dried, weighed and sieved at Analabs to -80# and -16#. The -80# fraction has been assayed for Cu, Pb, Zn, Sb, Bi, Sn, W and As, and the -16# fraction has been assayed for Au and Ag by static cyanide leach. Results are included in Appendix 1 and Cu Pb Zn Sb Au values have been plotted on Figure 3.

Results of the survey include:

- Maximum base metal anomaly of 129 ppm Cu; 458 ppm Pb and 889 ppm Zn occurs in a stream draining the Magnet gossan and is probably due to contamination from mine tailings.
- A 4km<sup>2</sup> area of coincident Au-Sb anomalism with maximum values of 7.9 ppb Au and 6.7 ppm Sb is associated with mafic to andesitic volcanics SW of Arthur Dam. Cu-Zn-Au vein style mineralisation in DDH's 1 & 2 (Arthur Dam) is located on the NW edge of this area. A stream traverse in vicinity of sample site 1437/38 failed to locate anything of interest. The anomaly may reflect mineralisation or elevated background levels for Au-Sb in the volcanics.
- The 40.8 ppb Au anomaly 1km NE of the Magnet Mine is unexplained, with stream traversing failing to locate anything of interest. However, Placer, the previous tenement holder, recorded a 13 ppb Au anomaly in the same stream (Placer's background value 2-3 ppb).

**5.2 Rock-chip Sampling At Magnet Mine**

Samples of quartz, carbonate and sulfide veining and altered mafic host rocks were sampled to determine whether significant gold is associated with the Magnet mineralisation and/or peripheral zones. Results were disappointing (Appendices 1 and 2), with a maximum assay of 0.11g/t Au.

**5.3 DDH's 1 & 2 (Arthur Dam); Core Assaying**

A pyrrhotite-chalcopyrite sheeted quartz vein set in DDH AD-1 (7m @ 0.6% Cu) had not been assayed for gold. The interval was resampled and assayed with disappointing results, viz a best assay of 0.54g/t Au (221.50 - 222.50m).

Quartz arsenopyrite-veined and silicified zones in DDH AD-2 had not been assayed and were considered to have potential to host gold. The samples returned values of <0.008g/t Au (Appendices 1 and 2).

**6. EXPENDITURE SUMMARY**

**Total Project Cost  
EL 17/93 Magnet (Luina)**

May 1994 to May 1995

Casual Labour	4,455.00
Consultants Fees	2,306.16
Assaying	5,572.44
Camp & Messing	70.30
Claims & Tenement Fees	1,721.35
Exploration Consumables	14.57
Research	128.21
Drafting Services & Supplies	195.00
Office Equipment & Supplies	74.60
Freight	7.00
Motor Vehicles : Hire	2,130.50
Couriers & Taxis	49.82
Maps, Plans & Photographs	293.55
Repairs & Maintenance	15.76
Technical Service Charges	975.00
Communications	193.51
Travel : Fares, Accommodation & Expenses	<u>265.00</u>

\$18,467.77

## 7. CONCLUSIONS & RECOMMENDATIONS

The area of coincident anomalous Au-Sb stream geochemistry south of Arthur Dam warrants more detailed stream sampling followed by grid based soil /rock geochemistry and geological mapping. The anomaly may be shed from a base and precious metal rich stockwork and sheeted vein system similar to that in DDH's AD-1 and 2.

Mineralisation intersected at Arthur Dam should be followed up with more drilling, the area being largely unexplored particularly for gold- rich base metal mineralisation.

The 40.8 ppb Au stream anomaly near the Magnet mine should be verified with repeat and more detailed stream sampling. There is potential for different styles of mineralisation around the Magnet mine.

Drilling by Comstaff (DDH's Mag-1 and 2) testing the down dip potential of the Magnet vein/ breccia pipe should be reassessed to determine whether the zone has been adequately tested. The Magnet mineralisation represents a small but attractive exploration target.

## 8. REFERENCES

Brown A V, 1986. Geology of the Dundas - Mt Lindsay - Mt Youngbuck region. Tasmanian Department of Mines. Geological Survey Bulletin 62.

Burrett C F and Martin E L, 1989. Geology and Mineral Resources of Tasmania. Special Publication 15. Geological Society of Australia Incorporated.

Collins P L F , 1983. Luina and Wombat Flat exempt areas: a review of previous exploration and a reconnaissance survey of an aeromagnetic anomaly. Tasmania Department of Mines Unpublished report No 1983/35.

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Cottle V M, 1953. Magnet Silver - Lead mine, in Geology of Australian Ore Deposits. The Fifth Empire Mining and Metallurgical Congress.: Melbourne.

Glasson and Cox R, 1968. EL 1/63 Preliminary Report on the Magnet Mine. Cleveland Tin / Aberfoyle Tasmanian Department of Mines Report No 68 - 498.

Ellis P D, 1989. Relinquishment report. 1989. Exploration Licence EL 47/88 Magnet Tasmania. Placer Exploration Limited.

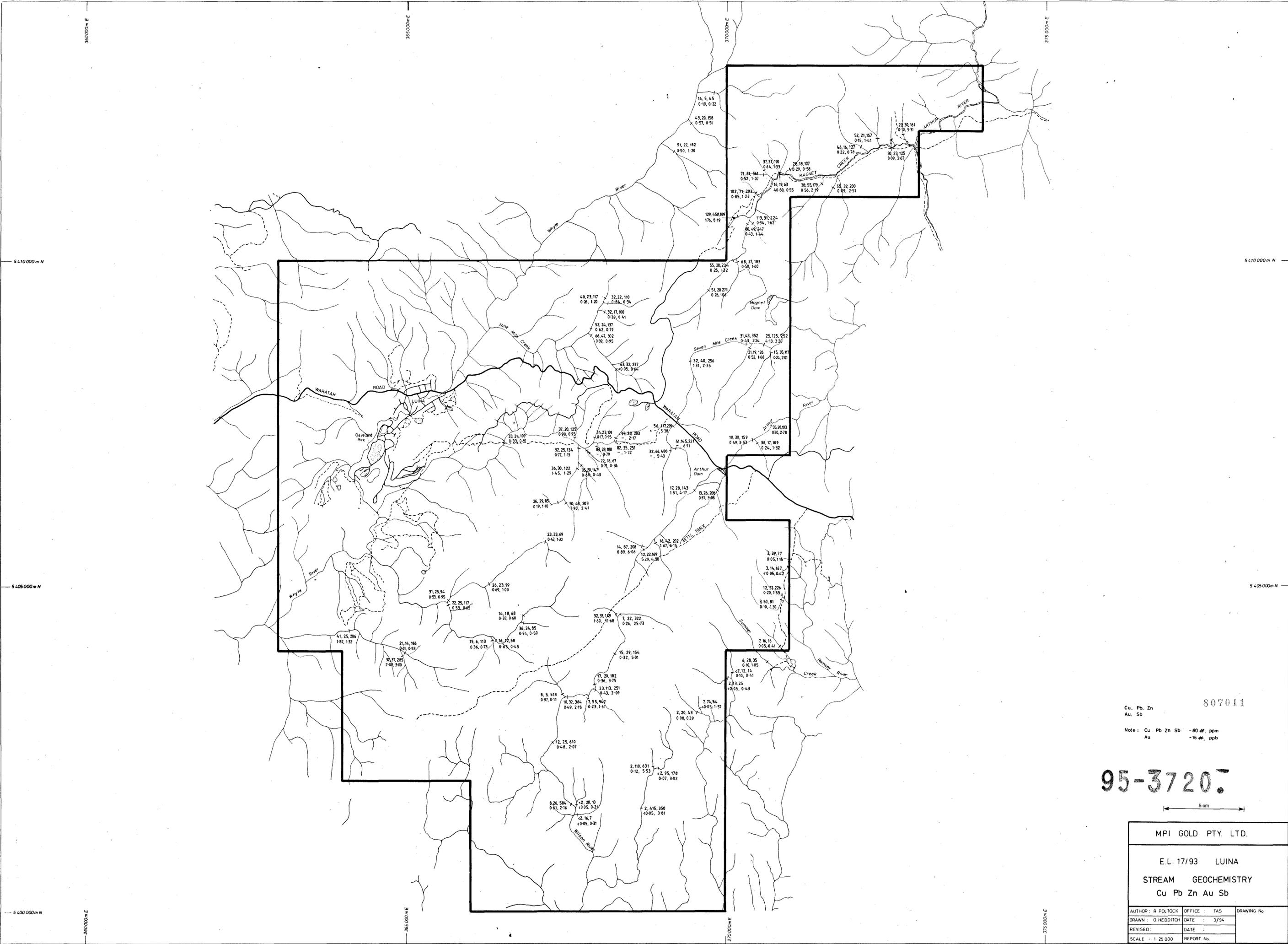
Halley S W , E.L. 12/90 and E.L. 15/90 Waratah partial relinquishment report for the period 1990 to 1992. RGC Exploration Pty. Limited.

Leaman D E , 1991. An Interpretation Form of Meredith Granite. Waratah Area EL 12/90 and 15/90. RGC Exploration Pty Limited. Mines Dept Report No 91/3284.

Tasmanian Department of Mines, 1936. Drill hole logs 1-5.







807011  
 Cu, Pb, Zn  
 Au, Sb  
 Note: Cu Pb Zn Sb -80 #, ppm  
 Au -16 #, ppb

95-3720

5 cm

MPI GOLD PTY. LTD.		
E.L. 17/93 LUINA		
STREAM GEOCHEMISTRY		
Cu Pb Zn Au Sb		
AUTHOR: R. POLTOCK	OFFICE: TAS	DRAWING No.
DRAWN: O. HEDDITCH	DATE: 3/94	
REVISED:	DATE:	
SCALE: 1:25,000	REPORT No.	

FIGURE 3

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**APPENDIX 1**

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**Analabs Pty. Ltd.**  
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TOTAL No. OF SAMPLES  
15

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
1108,1109,1505/17	CO Prep : 6P033	Cu,Pb,Zn,Ag/6A140 Cu,Pb,Zn,Ag/6A104 Au,Au(R),Au(S)/66309

RESULTS TO  
Mr Roger Foltock  
Roger Foltock Geological Pty Ltd  
C/- Post Office  
WILMOT TAS 7310

RESULTS TO  
Geochemical Clerk  
Mining Project Investors Pty Ltd  
P.O. Box 749  
WEST PERTH WA 6005

RESULTS TO

REMARKS  
Pb,Zn/6A104 results on samples 1512,1515 and 1516 were over-range for this method. Results reported were obtained by dilution.

*M. A. Good*  
PP. Keith Hand  
AUTHORISED OFFICER



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SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
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METHOD	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Au	
		GA140	GA104	GA140	GA104	GA140	GA104	GA140	GA104	GG309	
1	1108	24	-	847	-	372	-	>50	106	<0.008	
2	1109	36	-	4	-	55	-	<1	-	<0.008	
3	1505	2685	-	9	-	131	-	4	-	0.033	
4	1506	2664	-	9	-	115	-	3	-	0.033	
5	1507	3841	-	6	-	229	-	6	-	<0.008	
6	1508	3129	-	3	-	143	-	5	-	0.021	
7	1509	2364	-	7	-	96	-	4	-	0.028	
8	1510	>5000	1.16	16	-	229	-	17	-	0.054	
9	1511	28	-	5	-	65	-	<1	-	<0.008	
10	1512	758	-	>5000	6.55	>5000	13.60	>50	760	0.108	
11	1513	149	-	135	-	1627	-	2	-	<0.008	
12	1514	125	-	1589	-	2258	-	31	-	0.010	
13	1515	138	-	>5000	7.89	>5000	6.48	>50	818	<0.008	
14	1516	336	-	>5000	5.70	>5000	11.40	>50	335	0.059	
15	1517	37	-	63	-	436	-	2	-	<0.008	
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	2	0.01	3	0.01	2	0.01	1	10	0.008	
25	UNITS	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	



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PX 0474

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	SAMPLE No.	Au (R)	Au (S)						
METHOD		GG309	GG309						
1	1511	-	<0.008						
2	1514	0.009	-						
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24	DETECTION	0.008	0.008						
25	UNITS	ppm	ppm						

*M.H. Good*

807016



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1

88

SAMPLE NUMBERS

SAMPLE DESCRIPTION

ELEMENT/METHOD

-80#,1413/1499/2

SE Prep : SPECIAL - SEE FLOW SHEET

Cu,Pb,Zn,Sb,Bi,Sn.W/GS201

-80#,1413/1499/2

SE Prep :

As/HA101

-16#,1414/1500/2

SE Prep : GP007,GP016

Au,Ag/GS341

-16#,1414/1500/2

SE Prep :

-16#,TotWt/GP007

RESULTS

TO

Mr Roger Pollock  
Roger Pollock Geological Pty Ltd  
C/- Post Office  
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RESULTS

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RESULTS

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		GS201	GS201	GS201	GS201	GS201	GS201	GS201	HA101	GG341	
1	1413 -80#	56	117	299	5.38	0.5	1.4	1.4	24	-	
2	1415 -80#	41	145	221	6.71	0.2	1.4	1.5	23	-	
3	1417 -80#	32	66	480	5.43	0.1	1.5	1.2	12	-	
4	1419 -80#	82	35	251	1.72	0.1	1.8	1.3	6	-	
5	1421 -80#	93	28	203	2.17	0.2	1.8	1.5	6	-	
6	1423 -80#	83	28	180	0.79	0.3	2.0	1.4	6	-	
7	1425 -80#	34	23	101	0.95	0.1	1.7	1.1	4	-	
8	1427 -80#	22	18	67	0.36	0.1	1.5	1.0	1	-	
9	1429 -80#	32	25	134	1.13	0.2	2.5	1.6	5	-	
10	1431 -80#	37	20	125	0.95	0.1	1.9	1.5	4	-	
11	1433 -80#	35	20	147	0.43	0.2	1.5	1.1	4	-	
12	1435 -80#	36	30	122	1.29	0.2	2.8	1.4	5	-	
13	1437 -80#	50	43	203	2.41	0.3	2.8	1.5	8	-	
14	1439 -80#	33	25	109	0.81	0.1	1.9	1.0	5	-	
15	1441 -80#	26	29	85	1.10	0.3	3.1	1.2	5	-	
16	1443 -80#	80	49	247	1.44	0.2	2.8	2.3	5	-	
17	1445 -80#	113	31	224	1.62	0.2	2.1	1.7	5	-	
18	1447 -80#	129	458	889	8.19	0.4	28.4	1.2	53	-	
19	1449 -80#	102	71	293	1.28	0.1	6.6	1.1	8	-	
20	1451 -80#	71	81	561	1.07	0.1	1.8	1.3	5	-	
21	1453 -80#	37	31	190	1.33	0.2	2.2	1.5	6	-	
22	1455 -80#	28	18	107	0.58	0.1	3.5	0.4	3	-	
23	1457 -80#	38	55	179	2.19	0.1	6.3	1.2	12	-	
24	1459 -80#	55	32	200	2.51	0.2	2.8	1.5	7	-	
25	1461 -80#	46	16	127	0.78	0.1	1.8	1.8	5	-	

Results in ppm unless otherwise specified  
element not determinedIS = insufficient sample  
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	SAMPLE No.	Cu	Pb	Zn	Sb	Bi	Sn	W	As	Au
METHOD		GS201	HA101	GG341						
1	1463 -80#	52	21	157	1.41	0.2	1.8	0.9	7	-
2	1465 -80#	30	23	125	2.62	0.1	1.5	1.1	6	-
3	1467 -80#	29	30	161	3.31	0.1	1.5	1.2	5	-
4	1469 -80#	16	19	63	0.55	0.1	1.7	0.9	2	-
5	1471 -80#	68	27	183	1.60	0.1	2.2	1.1	5	-
6	1473 -80#	55	20	234	1.32	0.1	1.3	0.8	6	-
7	1475 -80#	51	20	271	1.06	0.2	1.3	0.7	4	-
8	1477 -80#	51	27	182	1.20	0.2	2.6	1.4	4	-
9	1479 -80#	43	20	158	0.51	0.1	0.8	0.7	4	-
10	1481 -80#	16	5	45	0.22	<0.1	0.8	0.5	<1	-
11	1483 -80#	63	32	237	0.64	0.1	2.0	0.7	3	-
12	1485 -80#	66	47	302	0.95	0.3	2.1	1.4	4	-
13	1487 -80#	52	24	137	0.79	0.2	2.3	2.1	4	-
14	1489 -80#	32	17	100	0.41	0.1	1.2	0.8	3	-
15	1491 -80#	32	22	110	0.34	0.2	1.6	0.7	4	-
16	1493 -80#	40	23	117	1.20	0.2	2.3	1.3	8	-
17	1495 -80#	32	40	256	2.35	0.1	0.8	0.6	8	-
18	1497 -80#	31	43	352	2.24	0.2	1.6	0.9	7	-
19	1499 -80#	21	19	126	1.66	0.1	1.6	0.8	4	-
20	1414 -16#	-	-	-	-	-	-	-	-	1.71
21	1416 -16#	-	-	-	-	-	-	-	-	0.75
22	1418 -16#	-	-	-	-	-	-	-	-	7.64
23	1420 -16#	-	-	-	-	-	-	-	-	0.39
24	1422 -16#	-	-	-	-	-	-	-	-	0.43
25	1424 -16#	-	-	-	-	-	-	-	-	0.50

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3 OF 6

	SAMPLE No.	Cu	Pb	Zn	Sb	Bi	Sn	W	As	Au
METHOD		GS201	HA101	GG341						
1	1426 -16#	-	-	-	-	-	-	-	-	0.17
2	1428 -16#	-	-	-	-	-	-	-	-	0.71
3	1430 -16#	-	-	-	-	-	-	-	-	0.77
4	1432 -16#	-	-	-	-	-	-	-	-	0.90
5	1434 -16#	-	-	-	-	-	-	-	-	0.68
6	1436 -16#	-	-	-	-	-	-	-	-	1.45
7	1438 -16#	-	-	-	-	-	-	-	-	7.90
8	1440 -16#	-	-	-	-	-	-	-	-	0.33
9	1442 -16#	-	-	-	-	-	-	-	-	0.19
10	1444 -16#	-	-	-	-	-	-	-	-	0.43
11	1446 -16#	-	-	-	-	-	-	-	-	0.34
12	1448 -16#	-	-	-	-	-	-	-	-	1.76
13	1450 -16#	-	-	-	-	-	-	-	-	0.85
14	1452 -16#	-	-	-	-	-	-	-	-	0.52
15	1454 -16#	-	-	-	-	-	-	-	-	0.64
16	1456 -16#	-	-	-	-	-	-	-	-	0.29
17	1458 -16#	-	-	-	-	-	-	-	-	0.56
18	1460 -16#	-	-	-	-	-	-	-	-	0.09
19	1462 -16#	-	-	-	-	-	-	-	-	0.22
20	1464 -16#	-	-	-	-	-	-	-	-	0.15
21	1466 -16#	-	-	-	-	-	-	-	-	0.09
22	1468 -16#	-	-	-	-	-	-	-	-	0.10
23	1470 -16#	-	-	-	-	-	-	-	-	40.80
24	1472 -16#	-	-	-	-	-	-	-	-	0.50
25	1474 -16#	-	-	-	-	-	-	-	-	0.25



## ANALYTICAL DATA

SAMPLE PREFIX      REPORT No.      REPORT DATE      CLIENT ORDER No.      PAGE

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		109555.60.10088				12/04/94		PX 0472		4 OF 6	
	SAMPLE No.	Cu	Pb	Zn	Sb	Bi	Sn	W	As	Au	
METHOD		GS201	GS201	GS201	GS201	GS201	GS201	GS201	HA101	GG341	
1	1476 -16#	-	-	-	-	-	-	-	-	0.26	
2	1478 -16#	-	-	-	-	-	-	-	-	0.50	
3	1480 -16#	-	-	-	-	-	-	-	-	0.57	
4	1482 -16#	-	-	-	-	-	-	-	-	0.19	
5	1484 -16#	-	-	-	-	-	-	-	-	<0.05	
6	1486 -16#	-	-	-	-	-	-	-	-	0.39	
7	1488 -16#	-	-	-	-	-	-	-	-	0.62	
8	1490 -16#	-	-	-	-	-	-	-	-	0.39	
9	1492 -16#	-	-	-	-	-	-	-	-	0.84	
10	1494 -16#	-	-	-	-	-	-	-	-	0.26	
11	1496 -16#	-	-	-	-	-	-	-	-	1.31	
12	1498 -16#	-	-	-	-	-	-	-	-	0.43	
13	1500 -16#	-	-	-	-	-	-	-	-	0.52	
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24	DETECTION	2	1	2	0.05	0.1	0.5	0.1	1	0.05	
25	UNITS	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	

Results in ppm unless otherwise specified  
element not determined

IS = insufficient sample  
CNIP

**ANALYTICAL DATA**

SAMPLE PREFIX

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PAGE

109555.60.10088

12/04/94

PX 0472

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	SAMPLE No.	Ag	TotWt	-16#					
METHOD		GG341	GP007	GP007					
1	1414 -16#	0.067	3099.6	1908.6					
2	1416 -16#	0.084	2550.6	1480.1					
3	1418 -16#	0.062	3681.1	1812.0					
4	1420 -16#	0.108	4582.4	970.50					
5	1422 -16#	0.411	4242.7	1404.6					
6	1424 -16#	0.029	4484.7	1037.4					
7	1426 -16#	0.050	4852.0	1840.7					
8	1428 -16#	0.030	4499.5	2122.5					
9	1430 -16#	0.110	4902.4	1256.8					
10	1432 -16#	0.065	4442.4	1888.2					
11	1434 -16#	0.050	4531.8	1349.8					
12	1436 -16#	0.068	5258.1	1463.8					
13	1438 -16#	0.143	5453.8	1154.2					
14	1440 -16#	0.075	4782.7	1950.1					
15	1442 -16#	0.088	3095.5	1387.5					
16	1444 -16#	0.474	3994.0	842.90					
17	1446 -16#	0.132	4475.2	762.10					
18	1448 -16#	2.458	5086.4	822.90					
19	1450 -16#	0.505	5141.4	608.80					
20	1452 -16#	0.593	4164.2	573.10					
21	1454 -16#	0.060	5081.2	1218.6					
22	1456 -16#	0.041	4965.9	2118.5					
23	1458 -16#	0.283	3891.6	1810.5					
24	1460 -16#	0.038	4347.4	1700.8					
25	1462 -16#	0.030	4118.6	1342.4					

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**Analabs Pty. Ltd.**

A.C.N. 004 591 664

## ANALYTICAL DATA

SAMPLE PREFIX

REPORT No.

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12/04/94

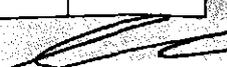
PX 0472

6 OF 6

	SAMPLE No.	Ag	TotWt	-16#					
METHOD		GG341	GP007	GP007					
1	1464 -16#	0.038	4173.7	1485.2					
2	1466 -16#	0.056	4113.6	2270.6					
3	1468 -16#	0.063	4628.8	1253.4					
4	1470 -16#	0.075	4842.0	2022.9					
5	1472 -16#	0.120	5000.2	1490.5					
6	1474 -16#	0.062	4485.2	1296.8					
7	1476 -16#	0.058	5073.5	1533.8					
8	1478 -16#	0.024	4098.6	1567.2					
9	1480 -16#	<0.010	3615.9	943.80					
10	1482 -16#	<0.010	4900.1	3045.5					
11	1484 -16#	<0.010	3684.9	594.70					
12	1486 -16#	0.061	3884.2	1079.9					
13	1488 -16#	0.034	4064.0	1318.4					
14	1490 -16#	0.029	3365.1	1034.4					
15	1492 -16#	<0.010	4447.0	1100.1					
16	1494 -16#	0.044	3404.6	997.10					
17	1496 -16#	0.041	3071.1	1627.0					
18	1498 -16#	0.044	4062.1	1754.2					
19	1500 -16#	0.043	3678.4	2262.6					
20									
21									
22									
23									
24	DETECTION	0.010	0.01	0.01					
25	UNITS	ppm	g	g					

 Results in ppm unless otherwise specified  
 - element not determined

 IS = insufficient sample  
 SNR - sample not received

 AUTHORISED
 



**ANALABS**  
 A Division of In-Cape Testing Services (Australia) Pty Ltd  
 A.C.N. 004 591 664

Phone (004) 316837

14 Thirkeil St. CODEE TAS 7320

Fax (004) 318890

**ANALYTICAL REPORT No.**

109555.60.10110

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

INVOICE TO:

Mining Project Investors Pty Ltd  
 P.O. Box 749  
 WEST PERTH WA 6005

ORDER No.		PROJECT	
PX 0473		EL 17/93	
DATE RECEIVED		RESULTS REQUIRED	
28/03/94		ASAP	

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES
4	05/05/94	1

TOTAL No. OF SAMPLES  
 92

SAMPLE NUMBERS	SAMPLE DESCRIPTION	ELEMENT/METHOD
-80# 1601/1691/2 -16# 1602/1692/2	SE Prep :	Cu,Pb,Zn,Sb,Bi,Sn,W/65201  As/HA101  Au,Ag/66341  -16#,TotWt/6P007

RESULTS TO	REMARKS
Mr Roger Poltock Roger Poltock Geological Pty Ltd C/- Post Office WILMOT TAS 7310	NB - Sb,Sn,W Acid Soluble
Geochemical Clerk Mining Project Investors Pty Ltd P.O. Box 749 WEST PERTH WA 6005	

RESULTS TO

AUTHORISED OFFICER

**ANALYTICAL DATA**

SAMPLE PREFIX

REPORT No.

REPORT DATE

CLIENT ORDER No.

PAGE

SAMPLE PREFIX		REPORT No.				REPORT DATE		CLIENT ORDER No.		PAGE	
		109555.60.10110				05/05/94		PX 0473		1 OF 4	
METHOD	SAMPLE No.	Cu	Pb	Zn	Zn	Sb	Bi	Sn	W	As	
		GS201	GS201	GI201	GI202	GS201	GS201	GS201	GS201	HA101	
1	1601 -80#	25	125	252	-	3.20	0.4	1.4	5.3	8	
2	1603 -80#	15	35	117	-	2.01	0.2	1.4	2.3	4	
3	1605 -80#	23	33	69	-	1.30	0.4	2.4	2.9	5	
4	1607 -80#	26	23	99	-	1.00	0.4	2.5	2.4	5	
5	1609 -80#	22	25	117	-	0.65	0.3	1.5	2.0	3	
6	1611 -80#	31	25	94	-	0.95	0.5	2.7	2.2	4	
7	1613 -80#	41	25	206	-	1.32	0.5	2.5	2.6	7	
8	1615 -80#	21	14	186	-	0.83	0.2	1.4	1.5	4	
9	1617 -80#	32	37	285	325	3.00	0.4	2.2	2.1	5	
10	1619 -80#	6	28	35	-	1.05	0.6	8.1	19.1	<1	
11	1621 -80#	7	16	16	-	0.41	0.4	12.4	3.7	3	
12	1623 -80#	3	80	81	-	1.30	0.4	3.5	2.9	1	
13	1625 -80#	12	37	226	-	1.55	0.8	6.6	9.6	8	
14	1627 -80#	3	14	167	-	0.42	0.3	4.1	1.2	4	
15	1629 -80#	3	39	77	-	1.15	0.5	8.6	3.2	12	
16	1631 -80#	13	26	208	246	3.08	0.2	2.9	0.9	10	
17	1633 -80#	17	28	143	-	4.17	0.2	1.7	0.9	9	
18	1635 -80#	<2	12	14	-	0.41	0.2	1.9	1.5	1	
19	1637 -80#	2	13	25	-	0.43	0.4	1.8	1.8	<1	
20	1639 -80#	7	74	84	-	1.57	0.5	5.2	5.7	1	
21	1641 -80#	2	20	43	-	0.39	0.5	2.6	3.1	5	
22	1643 -80#	18	30	159	153	3.53	0.3	2.6	0.8	8	
23	1645 -80#	38	17	109	-	1.32	0.2	2.5	0.6	4	
24	1647 -80#	35	20	103	-	2.78	0.3	4.1	1.2	7	
25	1649 -80#	<2	16	7	-	0.31	0.1	1.0	1.0	<1	



**ANALYTICAL DATA**

SAMPLE PREFIX      REPORT No.      REPORT DATE      CLIENT ORDER No.      PAGE

109555.60.10110      05/05/94      PX 0473      2 OF 4

	SAMPLE No.	Cu	Pb	Zn	Zn	Sb	Bi	Sn	W	As
METHOD		GS201	GS201	GI201	GI202	GS201	GS201	GS201	GS201	HA101
1	1651 -80#	<2	20	10	-	0.21	<0.1	1.1	1.0	<1
2	1653 -80#	8	26	584	814	2.16	0.1	1.6	0.9	9
3	1655 -80#	12	25	610	1109	2.07	0.2	1.2	0.6	37
4	1657 -80#	8	5	518	981	0.11	0.1	<0.5	0.1	7
5	1659 -80#	10	32	384	1389	2.18	0.1	1.1	0.5	9
6	1661 -80#	23	113	251	224	2.09	0.6	2.7	3.1	10
7	1663 -80#	7	55	942	1364	1.61	0.3	1.2	0.4	23
8	1665 -80#	17	20	182	255	3.75	0.1	1.1	0.4	7
9	1667 -80#	15	29	154	185	5.01	0.1	1.5	0.4	8
10	1669 -80#	7	22	322	-	25.73	<0.1	1.4	0.3	18
11	1671 -80#	32	33	149	-	11.68	0.1	1.6	0.6	13
12	1673 -80#	16	12	88	-	0.45	0.1	0.8	0.8	3
13	1675 -80#	15	6	113	-	0.73	<0.1	<0.5	0.1	1
14	1677 -80#	36	24	85	-	0.50	0.2	2.3	1.1	5
15	1679 -80#	14	18	68	-	0.60	0.1	1.4	1.1	3
16	1681 -80#	2	415	350	368	3.81	0.5	3.1	2.6	34
17	1683 -80#	<2	95	178	-	3.82	0.3	2.6	9.4	8
18	1685 -80#	2	110	631	1264	5.53	0.1	2.1	1.3	14
19	1687 -80#	12	22	169	178	4.50	<0.1	1.1	0.5	4
20	1689 -80#	14	87	208	202	6.06	0.1	2.7	0.9	8
21	1691 -80#	16	42	202	-	6.15	0.1	3.9	1.3	8
22										
23										
24	DETECTION	2	1	5	5	0.05	0.1	0.5	0.1	1
25	UNITS	ppm								

Results in ppm unless otherwise specified

IS = insufficient sample

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Analabs

Analabs Pty. Ltd.

A.C.N. 004 591 664

## ANALYTICAL DATA

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	SAMPLE No.	Ag	Au	-16#	TotWt					
METHOD		GG341	GG341	GP007	GP007					
1	1602 -#16	0.044	4.13	2123.0	3911.9					
2	1604 -#16	0.033	0.24	1979.4	3750.7					
3	1606 -#16	0.052	0.47	1133.6	3099.8					
4	1608 -#16	0.027	0.69	1301.0	3908.8					
5	1610 -#16	0.027	0.53	1899.9	3579.9					
6	1612 -#16	0.043	0.53	1092.2	4134.1					
7	1614 -#16	0.071	1.87	620.40	3546.6					
8	1616 -#16	0.038	0.61	1028.4	4459.1					
9	1618 -#16	0.157	2.08	622.50	3100.2					
10	1620 -#16	0.080	0.10	3104.6	4206.1					
11	1622 -#16	0.034	0.05	3326.8	4798.4					
12	1624 -#16	0.057	0.10	3801.6	4741.8					
13	1626 -#16	0.057	0.20	2237.4	4727.0					
14	1628 -#16	0.084	<0.05	3730.0	4856.9					
15	1630 -#16	0.043	0.05	3460.8	5622.7					
16	1632 -#16	0.172	0.37	1225.8	2468.5					
17	1634 -#16	0.101	1.51	1628.8	2729.4					
18	1636 -#16	0.033	0.10	4735.4	5407.2					
19	1638 -#16	0.046	<0.05	3621.9	4934.0					
20	1640 -#16	0.352	<0.05	3039.0	3125.9					
21	1642 -#16	0.024	0.08	2281.2	3205.2					
22	1644 -#16	0.228	0.49	2275.0	4290.5					
23	1646 -#16	0.026	0.24	1229.8	2436.0					
24	1648 -#16	0.288	0.30	393.80	2132.4					
25	1650 -#16	0.011	<0.05	2754.4	3632.4					

Results in ppm unless otherwise specified

IS = insufficient sample  
CND = make a trace of

AUTHORISED

807027



Analabs Pty. Ltd.

A.C.N. 004 591 664

## ANALYTICAL DATA

SAMPLE PREFIX

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4 OF 4

	SAMPLE No.	Ag	Au	-16#	TotWt					
METHOD		GG341	GG341	GP007	GP007					
1	1652 -#16	0.043	<0.05	1472.1	3108.9					
2	1654 -#16	0.112	0.61	2073.4	4369.2					
3	1656 -#16	0.081	0.48	2596.4	4190.4					
4	1658 -#16	<0.010	0.37	1769.0	4210.0					
5	1660 -#16	0.077	0.49	1624.2	4283.4					
6	1662 -#16	0.284	0.43	491.60	1275.6					
7	1664 -#16	0.040	0.23	1534.2	3056.2					
8	1666 -#16	0.273	0.36	1470.4	3206.8					
9	1668 -#16	0.448	0.32	995.05	2803.7					
10	1670 -#16	0.675	0.26	1379.8	2633.9					
11	1672 -#16	0.135	1.60	938.90	3778.0					
12	1674 -#16	0.016	0.65	1300.7	3197.7					
13	1676 -#16	<0.010	0.36	1285.3	3682.8					
14	1678 -#16	<0.010	0.94	1528.6	4325.9					
15	1680 -#16	0.029	0.37	1764.6	5612.4					
16	1682 -#16	0.211	<0.05	667.20	1645.2					
17	1684 -#16	0.141	0.07	2155.2	4850.5					
18	1686 -#16	0.102	0.12	1785.5	3187.2					
19	1688 -#16	0.113	5.29	1598.9	3295.4					
20	1690 -#16	0.232	0.89	1100.9	3989.2					
21	1692 -#16	0.356	1.67	1766.2	4579.5					
22										
23										
24	DETECTION	0.010	0.05	0.01	0.01					
25	UNITS	ppm	ppb	g	g					

---

**APPENDIX 2**

---

ROGER POLTOCK GEOLOGICAL PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: RP.  
DATE DISPATCHED: 1/9/94  
DATE RECEIVED:

CLIENT MPI

PROJECT MAGNET

LABORATORY

PROSPECT ARTHUR DAM - MAGNET MINE SAMPLE TYPE Rock / CORE

A 26305

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES								
				Cu	Pb	Zn	Ag	Au				
1108	DDH AD 2	123.5-124.8m	veined and silicified mafic	24	847	372	106	<0.008				
1109	DDH AD 2	273-274m	" " " "	36	4	55	<1	<0.008				
1505	DDH AD 1	172.5-173.5	pyrohotite pyrite chalcopyrite veins	0.27%	9	131	4	0.033				
1506	"	172.5-179.5	" " " "	0.27%	9	115	3	0.033				
1507	"	185.5-186.5	" " " "	0.38%	6	229	6	<0.008				
1508	"	192.5-193.5	" " " "	0.31%	3	143	5	0.021				
1509	"	212.5-219.5	" " " "	0.24%	7	96	4	0.028				
1510	"	221.5-222.5	" " " "	1.16%	16	229	17	0.054				
	MAGNET MINE											
1511	S410 700N	370100E	SHst = qtz chl carb veins	28	5	65	<1	<0.008				
1512	"	"	Dump - gossan ± gna sph carb'	758	655	1360	760	0.108				
1513	S410 750N	370150E	Carbonatized mafic	149	135	0.16%	2	<0.008				
1514	"	"	Qtz limonite Mn vein	125	0.16%	0.23%	31	0.01				
1515	"	"	Banded carbonate gna sph vein	138	789	648	818	<0.008				
1516	S410 700N	370 225E	Dump carb' gna sph py vein	336	5.70%	11.40%	335	0.059				
1517	"	"	" qtz Mn fuchsite/chl vein	37	63	436	2	<0.008				

307000