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GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LIMITED

E.L. 1/77 ROCKY CAPE

TEMMA AREA

PROGRESS REPORT

1st AUGUST 1982 to 31st JULY 1983

R.J. PERRING
DEVONPORT
AUGUST, 1983

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1. INTRODUCTION

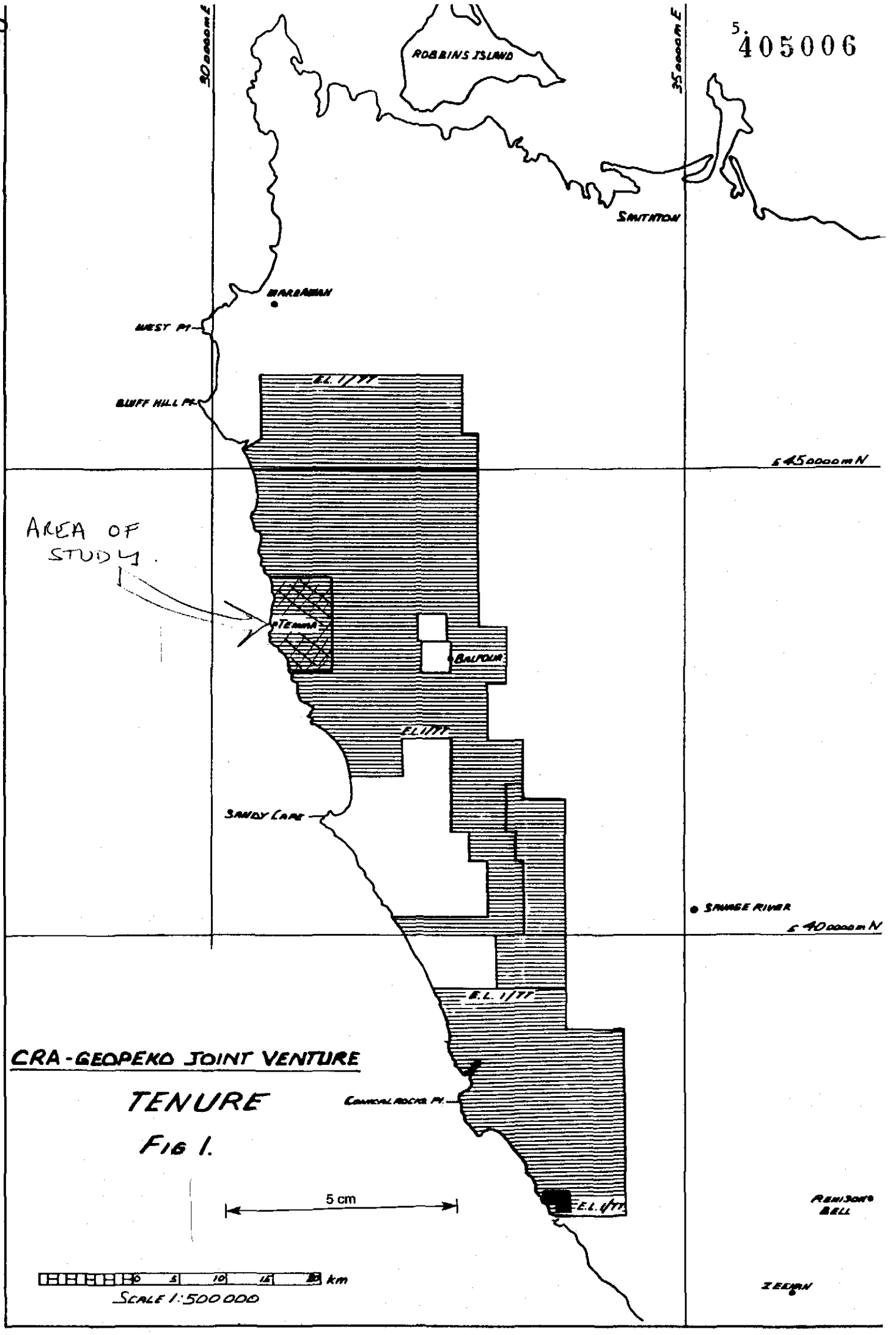
Temma lies on the western boundary of E.L. 1/77 - Rocky Cape which is held by CRA Exploration in joint venture with Geopeko (see figure 1). The area covered by this report falls within a three kilometre radius of A.M.G. 5430000N 310000E, 3 kilometres to the southeast of the coastal shack settlement of Temma.

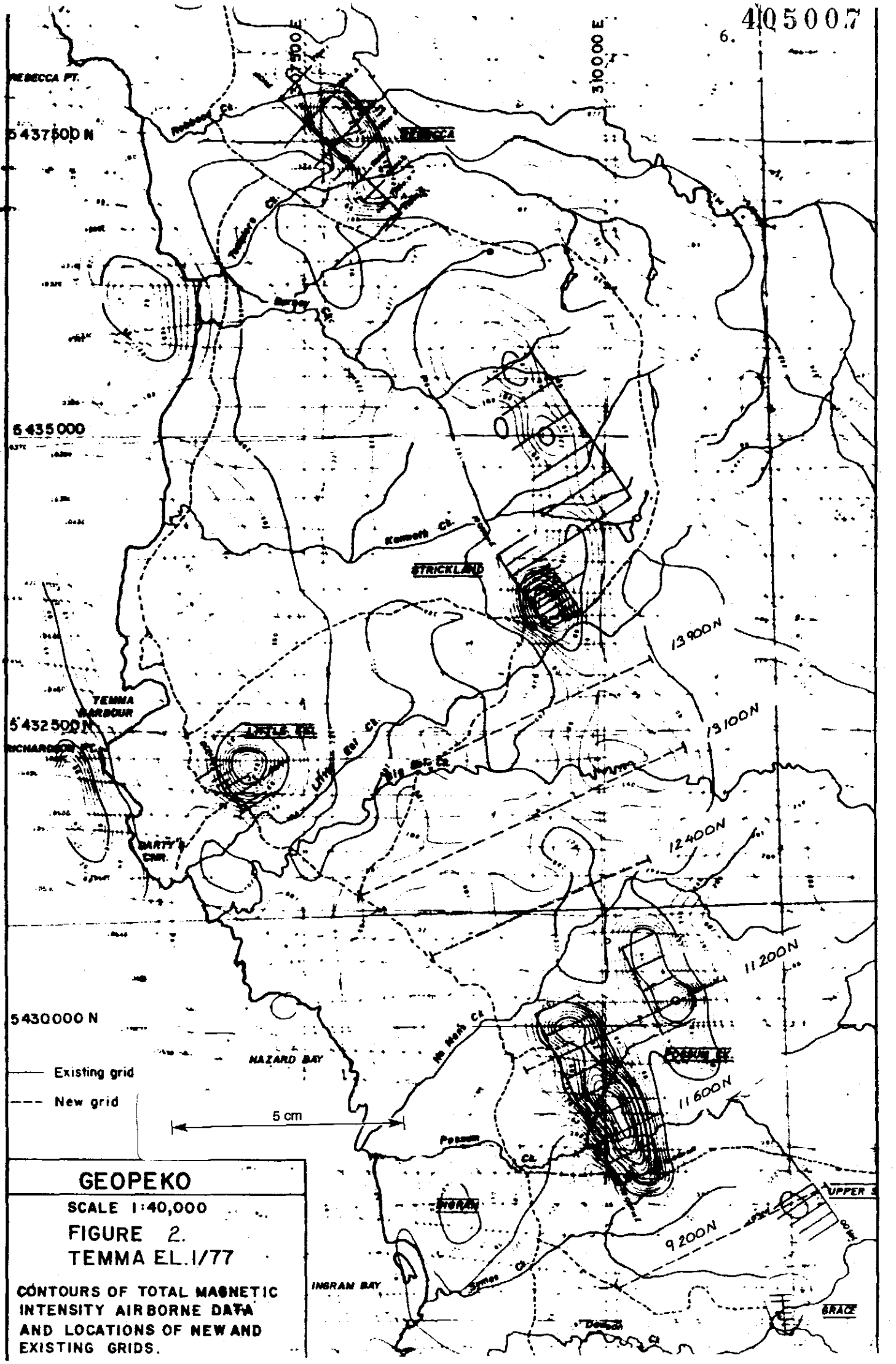
Previous work by CRAE, (T.M. Porter, 1977) indicated anomalous levels of tin and tungsten in panned concentrates from streams draining magnetically anomalous zones in the Temma - Nelson Bay area.

Detailed investigation involving gridding, geological mapping, soil/rock geochemistry and geophysical surveys was undertaken by Geopeko (W. Herrmann, J. Sumpton, 1982) over the large magnetic anomalies at Nelson River, Possum Creek, and the Strickland Mine area (see figure 2). Several occurrences of quartz-sulphide vein mineralization containing significantly anomalous copper, lead, silver, and traces of gold were examined. These showed a spatial and structural relationship to the magnetite lodes. Neither the magnetite bearing lodes or the associated quartz-sulphide veins or the superficial (dunes) sands were found to contain significantly anomalous tin or tungsten.

A short drill program was completed during October 1982 on the Little Eel and Possum Creek prospects to test the magnetite lodes for base metal and gold mineralization (Weber, 1983).

A program of regional mapping and soil geochemistry was undertaken to investigate the potential for sulphide lodes occuring along strike or adjacent to the Strickland and Possum Creek magnetite lodes. Six northeast-southwest ($055^{o}M$) trending lines approximately one kilometre apart were established in the area between the Grace and Strickland aeromagnetic anomalies (see figure 2). This report details the results of this investigation undertaken by Geopeko in November 1982, and July, 1983.


ROBBINS ISLAND
SANITATION
WARBURTON
WEST PT
BLUFF HILL PT
E.L. 1/77
E 445000m N
AREA OF STUDY.
TEMMA
BALFOUR
E.L. 1/77
SANDY CAPE
SAVAGE RIVER
E 440000m N
E.L. 1/77
CRA-GEOPEKO JOINT VENTURE
TENURE
FIG 1.
CAMPBELL ROCKS PT
5 cm
E.L. 1/77
RENISON BELL
0 5 10 15 20 km
SCALE 1:500000
ZEEHAN



GEOPEKO

SCALE 1:40,000

FIGURE 2.

TEMMA EL.1/77

CONTOURS OF TOTAL MAGNETIC INTENSITY AIRBORNE DATA AND LOCATIONS OF NEW AND EXISTING GRIDS.

2. SUMMARY, CONCLUSIONS, RECOMMENDATIONS

Temma lies on the western boundary of E.L. 1/77 - Rocky Cape which is held by CRA Exploration in joint venture with Geopeko.

This report details the procedures and results from a regional mapping, soil geochemical and magnetic surveys undertaken to investigate the potential for sulphide lodes occuring along strike or adjacent to the Strickland and Possum Creek magnetite lodes.

A Precambrian sequence comprised of siltstones, shales, quartzites and sandstones outcrops throughout the area.

Six regional lines were surveyed for total magnetic intensity. All magnetic anomalies could be attributed to known magnetite lodes.

Five regional lines were sampled at 25 metre intervals for C horizon soil geochemistry. Strongest base metal soil geochemistry coincided with known magnetite hematite ironstones, which down grades the potential for the weaker soil geochemistry pointing to base metal sulphide mineralization in the area. There are nine tungsten anomalies on the grid. Two of these anomalies are worthy of further investigation to explain the source of the tungsten.

3. GEOLOGY

The Precambrian sequence outcropping in the area between the Grace and Strickland prospects is comprised of siltstones, shales, quartzites, and sandstones (see plan 1).

Three types of siltstone have been mapped.

a) a relatively uncommon massive pelitic siltstone.

b) finely laminated sometimes crosslaminated psammo-pelitic siltstones (see figure 3), commonly found south of the Possum Creek prospect.

c) interbedded psammitic and pelitic siltstones with ripple marks in the psammitic quartzose beds. This lithology is common to most of the grid area.

The sandstones are fine to medium grained, and range from clean, well sorted, commonly crossbedded white quartzites to grey silty micaceous sandstones, also commonly crossbedded. The most prominent exposures of both litholgies occur in the western half of the gridded area between lines 12400N and 13900N.

A finely laminated brown shale outcrops near the eastern end of line 13100N on the banks of Big Eel Creek. This shale is relatively well cleaved which contrasts with the poorly cleaved sandstones and quartzites. A broad spaced fracture cleavage (one per centimetre) was recorded in a few outcrops of quartzite. The alignment of (metamorphic) mica in the silty sandstones oblique to bedding also defines cleavage. The few cleavage directions recorded strike from between 160°M and 170°M and dip vertically.

Bedding dips to the east and the west from between 20° and 80°, and sometimes to the south at 10° or less when in the hinge zone of folds.

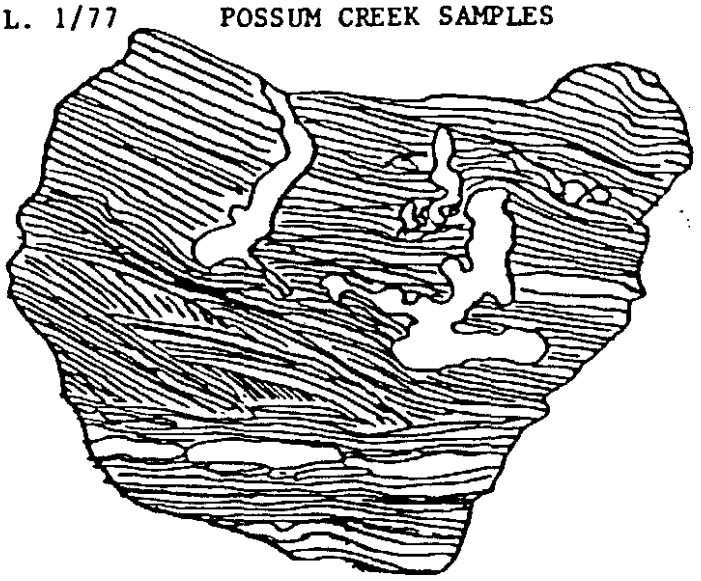
There are at least two scales of folding.

a) Mesoscale non planar non cylindrical folds observed in the psammo-pelitic sequence 50 metres west of the Possum Creek ironstone, and in the shales along Big Eel Creek (see plan 1 for illustration). These folds plunge at between 30° and 90° to 145°M (at Possum Creek). The irregularity of these folds points to soft sediment slumping.

b) There is also a more regional scale of folding with fold wavelengths of between 800 and 1000 metres, and judging on the evidence from a couple of outcrops probably plunge shallowly to the north-northwest. (what about dips in hinge zones? (see top of page)

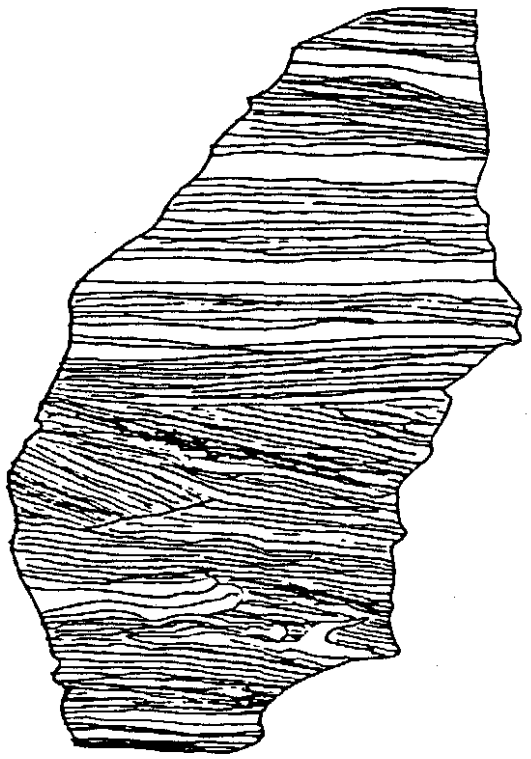
Herrmann, 1982 concluded the intense magnetic anomalies in the area related to narrow, crosscutting dyke or vein like bodies composed of varying assemblages of magnetite, carbonate, iron rich amphibole, chlorite, and quartz. Rock chip samples of the Possum ironstone assayed up to 1850ppm Cu and 1500ppm As (see table 1).

FIGURE 3: E.L. 1/77 POSSUM CREEK SAMPLES



Finely laminated and cross bedded psammo-pelitic siltstone, crosscut by clastic dykes resulting from dewatering of sedimentary pile.

Possum Creek 9200N 10200E



Finely laminated psammo-pelitic siltstone, with truncated cross bedding

Possum Creek 9200N 10200E

Scale 1:1

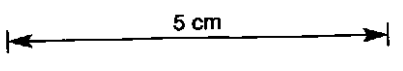


TABLE 1 TEMMA - ROCK CHIP ANALYSES

Sample Number	Rock Type	AMG Co ordinates	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Ba ppm	As ppm	Sn ppm	W ppm	Au ppb
12659	massive coarse grained magnetite	5429000N 310100E	350	5	7	X	35.0	X	650	X	X	X
12660	massive coarse grained magnetite	5429000N 310100E	1850	10	55	2.0	30.0	X	1500	X	X	X
12661	massive coarse grained magnetite	5431300N 310600E	140	10	55	X	31.5	10	30	10	X	X
12662	hematite-sulphide boxworks	5431300N 310600E	230	5	245	0.5	30.5	5	35	X	20	8
12663	qtz veining-sulphide boxworks	5431300N 310600E	105	15	65	1.0	20.0	10	37	4	X	X
12664	laterite	5432500N 309600E	15	5	50	0.5	33.0	30	16	X	X	X
12665	spotted white quartzite	5432650N 309000E	5	15	25	X	0.585	5	3	4	X	X
12666	limonitic ironstone	5430400N 310600E	10	5	35	X	27.5	1400	2	4	X	X
12667	chloritic siltstone	542800N 310650E	5	15	65	0.5	3.25	240	1	6	X	X

SAMPLES FROM OUTSIDE GRID AREA

12657	black chert	5445600N 307800E	10	10	10	X	0.755	10	3	7	X	X
12658	black chert	5445600N 307800E	10	10	10	X	0.605	10	3	8	X	X
	DETECTION LIMITS		5	5	5	0.5	0.005	5	1	3	10	8

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4. REGIONAL GROUND MAGNETICS

The six regional lines were surveyed for total magnetic intensity using a Geometrics G816 magnetometer. Line profiles of the data are plotted on plan 2.

The 100 metre wide, 500nT anomaly centred on 13900N 11225E is attributable to the magnetite lode on the Temma prospect.

The narrow, 1700nT anomaly centred on 12400N 10775E defines the northern extent of the most eastern Possum Creek magnetite lode. This anomaly coincides with outcrop of a magnetite-hematite ironstone. The 'spiky' nature of the data for 200 metres either side of this anomaly is attributable to outcropping Tertiary Basalt.

The two narrow, relatively strong anomalies on line 11200N and one on line 11400N relate to the Possum Creek magnetite lodes.

5. SOIL GEOCHEMISTRY

The five lines 9200N, 10600N, 11200N, 12400N, and 13900N were sampled at 25 metre intervals for C horizon soil geochemistry using a Jacro mounted on a Bombardier and power hand auger. The -80 mesh fraction of samples were analysed for Cu, Pb, Zn, Ag, and Fe by A.A.S., As by vapour hydride generation - A.A.S. and Sn, W by X.R.F. All assays are given in appendix 1. Line profiles for the elements Cu, Pb, Zn, As, Sn and W have been plotted (see plans 4 to 9). A summary of anomalous soil geochemistry is given on plan 10, and listed below.

CENTRED ON	ANOMALY	HIGHEST VALUES	REMARKS
9200N 9675E	W	244ppm W	one spot value, possibly tungsten in quartz vein
9200N 10125E	Cu-Zn	70ppm Cu, 155ppm Zn	200 metres wide
9200N 10700E	Cu-Zn	195ppm Cu, 140ppm Zn	one spot value
9200N 10900E	Cu-Zn	130ppm Cu, 100ppm Zn	100 metres wide
10600N 9950E	Zn	200ppm Zn	200 metres wide
10600N 10025E	W	45ppm Sn	one spot value
10600N 10250E	Cu-Zn-W-Mag	390ppm Cu, 70ppm Zn 40ppm W	geochemistry of ironstone and sulphide veins
10600N 10700E	Cu-Zn	90ppm Cu, 110ppm Zn	150 metres wide
11200N 9800E	Zn	90ppm Zn	150 metres wide
11200N 10100E	W	70ppm W	150 metres wide
11200N 11125E	Cu-Pb-Zn-Mag	85ppm Cu, 385ppm Pb, 180ppm Zn	geochemistry of ironstone and sulphide veins
11200N 11300E	W	30ppm W	200 metres wide

CENTRED ON	ANOMALY	HIGHEST VALUE	REMARKS
11200N 11425E	Sn-W	35ppm Sn, 120ppm W	200 metres wide
12400N 9350E	Cu-Zn-W	95ppm Cu, 170ppm Zn 133ppm W	eratic Cu-Zn and W values
12400N 9750E	W	100ppm W	700 metre wide zone
12400N 10550E	Zn	140ppm Zn	400 metre wide zone, Zn from basalt
12400N 10750E	Cu-Zn-Mag	130ppm Cu, 170ppm Zn	copper from ironstone, zinc from basalt
12400N 10875E	Zn	120ppm Zn	zinc from basalt
13900N 9825E	W	153ppm W	one spot value
13900N 10325E	W	96ppm W	two values 25 metres apart
13900N 10650E	W	47ppm W	100 metres wide
13900N 10875E	W	113ppm W	200 metres of eratic values
13900N 11550E	Cu	135ppm Cu	one spot value

The following conclusions can be made.

a) There are a number of copper, lead and zinc anomalies along strike and adjacent to the known magnetite hematite ironstones, however the strongest base metal geochemistry occurs over these ironstones, which downgrades the potential for the weaker soil geochemistry pointing to base metal sulphide in the area.

b) There are nine tungsten anomalies on the grid. Two of these anomalies are worthy of further investigations.

i) the coincident tin-tungsten anomaly on the eastern end of line 11200N

ii) the broad tungsten anomaly on the western half of line 12400N

A sample of soil and rock chips from each of these anomalous areas has been despatched to C.M.S. to attempt to isolate the tungsten mineral present.

As a comparison of soil-weathered rock chip geochemistry, the tungsten values for a line of samples taken over the wolframite-quartz vein system on Specimen Hill Balfour, is given below. (See Heithersay, 1981.)

Line 95N, 9700E to 10,100E on 25 metre centres.

Wppm 20-10-<10-<10- 30-10-<10-<10-100-20-360-50-10-60-50-<10-50

Values of 20ppm W and greater were considered anomalous by Paul Heithersay and could be meaningfully contoured. The wolframite in the quartz veins weathered and dispersed to give relatively weak, eratic tungsten geochemistry. The tungsten soil anomalies from Temma are comparable with those from Specimen Hill both in terms of order of magnitude and eratic nature.

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6. REFERENCES

Heithersay, P., 1981: Progress Report on E.L. 1/77 Balfour Tasmania. Unpublished Geopeko Report.

Herrmann, W., Sumpton, J., 1982: Progress Report E.L. 1/77. Temma Area 1981. Unpublished Geopeko Report.

Weber, G.B., 1983: Rocky Cape E.L. 1/77 Progress Report on the Temma Area January 1983 Unpublished CRA Exploration Report.

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APPENDIX 1

SOIL SAMPLE LEDGER SHEETS

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/7[illegible] Rocky Cape — Sample numbers 21001 - 21024 — Collected by T. BUGG — Sheet 1

Area / Prospect TEMMA — Date NOVEMBER 1982

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by ANALABS - COOEE — DPO no. 30434

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Sample No. TS	Type ss * / oc / f / s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE 9200N	Geological Observations
21001										5	X	50	0·5	2·20%	15	X	X	9400E	
21002										10	35	60	X	8350	X	X	17	9425E	
21003										5	5	25	X	6900	X	X	7	9450E	
21004										10	15	26	X	1·20%	X	X	10	9475E	
21005										5	10	15	X	4350	X	X	4	9500E	
21006										5	30	20	X	3400	X	X	X	9525E	
21007										5	5	17	0·5	5150	X	X	X	9550E	
21008										5	30	40	0·5	1·15%	X	X	8	9575E	
21009										10	45	30	X	4900	X	X	13	9600E	
21010										5	10	50	0·5	2·65%	9	X	8	9625E	
21011										5	5	30	0·5	5100	X	X	4	9650E	
21012										10	5	30	X	5500	X	X	4		
21013										30	5	60	0·5	2·00%	X	X	244	9675E	
21014										50	25	75	0·5	1·65%	X	X	23	9700E	
21015										10	X	16	0·5	1·45%	X	X	8	9725E	
21016										5	5	10	X	8200	X	X	X	9750E	
21017										15	25	70	0·5	1·45%	X	X	X	9775E	
21018										15	10	20	X	4·20%	22	X	9	9800E	
21019										10	10	25	X	3·10%	14	X	16	9825E	
21020										10	40	45	1·0	7450	X	X	X	9850E	
21021										10	15	30	X	6·50%	21	4	4	9875E	
21022										10	15	30	X	7550	X	X	8	9900E	
21023										15	15	55	0·5	6·50%	11	X	X	9925E	
21024										15	25	40	X	4·95%	15	X	31	9950E	

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* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

**** Soil sample type auger hole or pit depth m A, B or C horizon

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/[redacted]ocky Cape — Sample numbers 21025 - [redacted]048 — Collected by T. BUGG — Sheet [redacted]2

Area / Prospect TEMMA — Date NOVEMBER 1982

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by ANALABS - COOEE — DPO no. 30434

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Sample No.	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid	Geological Observations
TS																		LINE 9200N	
21025										10	5	25	X	1·55%	5	X	8		
21026										10	5	25	X	1·45%	7	X	9	9975E	
21027										10	10	30	1	2·53	25	5	10	10000E	
21028										60	15	130	1	8·64	40	5	10	10025E	
21029										30	10	85	2	8·7%	10	5	10	10050E	
21030										55	10	120	3	8·84	2	5	10	10075E	
21031										60	5	120	3	8·96	1	5	10	10100E	
21032										70	X	155	X	6·35%	X	X	23	10125E	
21033										65	5	135	X	6·25%	6	X	12	10150E	
21034										60	5	135	X	7·45%	6	X	8	10175E	
21035										15	5	80	X	2·65%	13	X	13	10200E	
21036										5	5	60	X	1·85%	9	X	18		
21037										5	5	55	X	1·70%	9	X	17	10225E	
21038										5	10	40	X	9700	X	X	23	10250E	
NO SAMPLE										–	–	–	–	–	–	–	–	10275E	
21039										20	10	50	X	2·80%	13	X	X	10300E	
21040										10	5	30	X	2·45%	12	X	10	10325E	
21041										10	25	40	0·5	3·50%	11	6	8	10350E	
21042										5	5	25	X	2·05%	9	X	8	10375E	
21043										10	10	20	X	4350	X	X	9	10400E	
21044										15	X	50	X	1·25%	X	X	5	10425E	
21045										5	5	15	X	3300	8	4	11	10450E	
21046										10	15	35	X	4750	X	X	X	10475E	
21047										15	5	25	X	7450	8	X	X	10500E	
21048										15	10	25	X	2·30%	6	X	7	10525E	

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

A, B or C horizon

4030 20

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/2 Rocky Cape — Sample numbers 21049 - 21073 — Collected by T. BUGG — Sheet no. 3

Area / Prospect TEMMA — Date DECEMBER 1982

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by ANALABS - CODEE — DPO no. 30434

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Sample No. TS	Type ss * oc f s	ss channel ** fl wi al co ca pH; o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE	Geological Observations
21049				10	5	20	X	3.85	13	X	X	9200N	
21050				10	5	20	X	4.30	16	X	X	10550E	
21051				10	5	25	X	4.85	15	X	X	10575E	
21052				15	5	15	0.5	2.85	11	4	X	10600E	
21053				10	5	15	X	2.75	10	X	5	10625E	
21054				15	5	25	0.5	2.00	10	X	X	10650E	
21055				25	10	30	X	5.35	9	X	4	10675E	
21056				195	35	140	X	2.05	12	X	5	10700E	
21057				15	5	50	X	1.25	8	X	5	10725E	
21058				10	5	15	0.5	3.65	13	4	7	10750E	
21059				30	15	45	X	3.90	9	X	X	10775E	
21060				10	5	30	X	3.55	16	X	7	10800E	
21061				5	X	10	X	3250	9	5	7	10825E	
21062				5	X	15	0.5	4200	8	X	X	10850E	
21063				30	X	25	X	1300	2	X	15	10875E	
21064				130	X	100	2.0	8350	X	X	15	10900E	
21065				70	X	60	0.5	1400	X	X	16	10925E	
21066				40	X	35	X	1200	2	X	10	10950E	
21067				20	10	60	X	3.50	11	X	X	10975E	
21068				20	15	30	X	2.85	12	X	11		
21069				20	10	25	X	2.90	12	X	X	11000E	
21070				20	5	35	X	2.95	X	X	11	11025E	
21071				30	5	30	X	9150	X	X	X	11050E	
21072				5	5	10	X	3.75	13	X	X	11075E	
21073				15	5	20	0.5	3.95	12	X	22	11100E	

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* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

Soil sample type auger hole or pit depth m A, B or C horizon

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1[illegible]ocky Cape — Sample numbers 21074 [illegible] 21081 — Collected by T. BUGG — Sheet 4

Area / Prospect TEMMA — Date NOVEMBER 1982

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by ANALABS - COOEE — DPO no. 30434

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Sample No.	Type	ss channel **						Metal content ppm or %									Grid	Geological Observations
TS	ss * / oc / f / s	fl	wi	al	co	ca	pH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm			LINE 9200N
		o/c sample type ***																
		s sample type ****																
21074								15	5	30	X	3·40	8	4	10			11125E
21075								10	10	25	1·5	2·25	X	X	X			11150E
21076								20	X	30	X	3500	X	X	4			11175E
21077								35	10	30	1·0	4700	6	X	7			11200E
21078								15	5	20	X	3350	6	X	7			11225E
21079								15	10	35	1·0	3·75	12	X	X			11250E
21080								10	5	20	X	4·35	14	X	X			11275E
21081								60	X	50	0·5	4150	7	X	66			11300E
END OF LINE																		

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40502

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

[illegible] A B or C horizon

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 17[illegible] Rocky Cape — Sample numbers 21082 – [illegible]3117 — Collected by T.BUGG/R.OUTRAM — Sheet [illegible] 5

Area / Prospect TEMMA — ANALABS – COOEE — Date AUGUST 1983 NOVEMBER 1982

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by A.L.S – BRISBANE — DPO no. 30434/

A 02143

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE 10600N	Geological Observations 022
21082										40	X	60	0·5	1·40	14	X	23	9800E	
21083																		9825E	
21084										40	15	70	X	1·45	15	4	18	9850E	
21085										70	55	120	X	1·75	9	5	15	9875E	
21086										15	25	60	0·5	1·20	8	X	5	9900E	
21087										30	25	95	X	2·25	22	X	16	9925E	
21088										35	75	200	1·0	2·65	17	8	13	9950E	
21089										45	5	85	X	5·00	10	X	24	9975E	
23117										20	55	80	2	2·97	<20	<5	<10	10000E	
23116										20	25	40	2	1·60	<20	45	20	10025E	
23115										30	50	80	2	2·56	<20	5	10	10050E	
23114										35	70	60	2	3·05	<20	<5	<10	10075E	
23113										15	25	45	2	1·96	<20	10	10	10100E	
23112										30	20	60	3	4·03	<20	25	10	10125E	
23111										40	30	60	3	5·59	<20	10	<10	10150E	
23110										30	30	30	3	2·39	<20	<5	10	10175E	
23109										25	25	45	3	7·12	<20	<5	10	10200E	
23108										55	180	40	2	2·18	<20	<5	<10	10225E	
23107										35	35	50	2	3·41	<20	5	30	10250E	
23106										390	25	70	3	5·09	<20	5	10	10275E	
23105										5	25	25	2	1·07	<20	<5	40	10300E	
23104										10	20	60	2	3·53	<20	<5	<10	10325E	
23103										10	20	40	2	2·15	<20	20	<10	10350E	

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

**** [illegible] auger hole or pit depth m A B or C horizon

40502 3

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/[redacted] Rocky Cape
Area / Prospect TEMMA
Map / Photo reference SANDY CAPE 1:100,000
A 02143

Sample numbers 23090 - [redacted]3099
23101 - 23102
21090 - 21098

Collected by T. BUGG / R. OUTRAM
Analysed by ANALABS - COOEE A.L.S. - BRISBANE

Sheet [redacted]6
Date NOVEMBER 1982 AUGUST 1983
DPO no. 30434/

Sample No.	Type	ss channel **						Metal content ppm or %										Grid	Geological Observations
TS	ss * / oc / f / s	fl	wi	al	co	ca	pH	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm			LINE 10600N	023
		o/c sample type ***																	
		s sample type ****																	
23102								10	20	60	2	3.53	<20	5	<10			10375E	
23101								10	25	65	2	3.13	<20	5	<10			10400E	
21090								10	5	15	X	4300	X	X	X			10425E	
21091								10	5	40	X	1600	X	7	X			10450E	
21092								15	5	25	X	1.30	5	X	4			10475E	
21093								15	5	20	X	3600	7	X	X			10500E	
21094								10	5	30	X	8150	X	X	X				
21095								15	5	25	X	7800	1	4	X			10525E	
21096								5	10	10	X	3500	X	X	X			10550E	
21097								35	15	90	X	5.95	53	7	9				
23099								15	15	65	2	3.56	<20	<5	<10			10575E	
21098								40	15	100	X	6.85	8	222	14				
23098								40	20	100	3	7.00	<20	<5	<10			10600E	
23097								15	20	55	2	3.52	<20	<5	<10			10625E	
23096								30	25	65	3	7.49	<20	5	<10			10650E	
23095								90	20	70	7	6.25	<20	10	<10			10675E	
23094								90	60	110	12	8.30	<20	10	10			10700E	
23093								55	25	90	4	6.70	<20	<5	<10			10725E	
23092								40	25	80	4	5.25	<20	<5	<10			10750E	
23091								60	30	95	5	7.82	<20	5	<10			10775E	
23090								70	30	90	3	10.6	<20	5	<10			10800E	
END OF LINE																			

4030 24

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

**** A, B or C horizon

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/7[redacted]ocky Cape — Sample numbers 21099 - [redacted]106, 23159 - 23166, 12362 - 12364, 12366; 12368 - 12370 — Collected by T. BUGG / D. ROBERTSON SEPTEMBER 1981 — Sheet [redacted]7 — Date KP2723 SEPTEMBER 1982

Area / Prospect TEMMA

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by ANALABS / CODEE A.L.S. - BRISBANE — Date AUGUST 1983 — DPO no 30434

A 02143

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type *** / s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE 11200N	Geological Observations
21099									30	15	90	0·5	1·05	16	4	17	9800E	
21100									15	25	85	x	2·20	10	10	13	9825E	
21101									25	30	65	x	1·70	10	x	11	9850E	
21102									30	10	65	x	1·75	15	4	x	9875E	
21103									85	10	95	0·5	5100	11	x	4	9900E	
21104																	9925E	
21105									15	15	65	x	1·80	17	4	27	9950E	
21106									25	10	170	x	1·90	16	x	30	9975E	
23166									35	25	40	2	5·19	40	<5	20	10000E	
23165									45	30	35	2	1·21	<20	5	40	10025E	
23164									20	25	50	1	2·01	<20	<5	20	10050E	
23163									25	45	55	2	3·35	<20	<5	20	10075E	
23162									20	20	45	2	2·20	<20	5	70	10100E	
23161									20	20	45	2	1·57	<20	<5	30	10125E	
23160									25	20	40	2	1·93	<20	5	10	10150E	
12362									10	20	105	0·4	4·1	—	x	x	10175E	
12363									x	10	35	0·4	1·05	—	x	x	10200E	
12364									x	5	25	0·4	1·35	—	x	0·5	10225E	
12366									x	10	20	0·3	1·0	—	x	x	10250E	
12368									x	40	35	0·3	1·15	—	6	0·5	10275E	
12369									x	15	30	0·3	4400	—	4	0·5	10300E	
12370									x	25	20	0·2	4000	—	x	x	10325E	
23159									40	15	15	1	1·60	<20	<5	<10	10350E	

024

4050025

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/[redacted] Rocky Cape — Sample numbers 23136 - [redacted]158 — Collected by D. ROBERTSON — Sheet [redacted] 8

Area / Prospect TEMMA — Date AUGUST 1983

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by A.L.S. - BRISBANE — DPO no.

A 02143

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE	Geological Observations
23158										25	25	25	2	2.86	<20	5	<10	11200N 10375E	025
23157										20	20	30	2	2.39	<20	<5	10	10400E	
23156										25	15	40	1	3.36	<20	<5	<10	10425E	
23155										15	20	50	2	5.04	<20	5	<10	10450E	
23154										25	20	60	2	4.98	<20	5	<10	10475E	
23153										30	20	65	2	3.62	<20	<5	10	10500E	
23152										25	40	45	3	1.80	<20	<5	10	10525E	
23151										10	25	20	1	1.01	<20	<5	30	10550E	
23150										10	25	15	1	0.48	<20	5	30	10575E	
23149										10	20	15	1	0.58	<20	<5	20	10600E	
23148										20	60	40	2	2.55	<20	<5	<10	10625E	
23147										15	35	25	2	3.64	<20	<5	10	10650E	
23146										15	25	35	2	3.31	<20	<5	<10	10675E	
23145										15	45	65	2	4.59	<20	<5	<10	10700E	
23144										10	20	15	1	1.25	<20	<5	20	10725E	
23143										15	20	25	2	3.78	<20	<5	10	10750E	
23142										25	20	60	2	3.41	<20	5	10	10775E	
23141										45	35	55	3	9.20	<20	<5	<10	10800E	
23140										50	30	55	3	9.02	<20	5	<10	10825E	
23139										35	30	35	3	6.68	<20	<5	<10	10850E	
23138										45	35	65	3	7.79	<20	<5	<10	10875E	
23137										20	30	45	2	2.98	<20	<5	<10	10900E	
23136										55	35	40	2	1.63	<20	25	20	10925E	

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

**** Soil sample type auger hole or pit depth m A, B or C horizon

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/7[redacted]tocky Cape
Area / Prospect TEMMA
Map / Photo reference SANDY CAPE 1:100,000
A 02143

Sample numbers 23135[redacted] 12428 ; 12430 ; 12432 ; 12434 - 12436; 12438 - 12440. 23118 - 23130
Collected by D. ROBERTSON
Analysed by A.L.S - BRISBANE

Sheet 9 of [redacted]
Date AUGUST 1983
DPO no KP 2723

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE 11200N	Geological Observations
23135										35	30	60	3	7·50	<20	5	30	10950E	
12428										60	55	50	0·2	3·5	–	x	1·5	10975E	
12430										85	35	60	x	3·8	–	x	0·5	11000E	
12432										75	5	25	0·1	2·8	–	x	2·5	11025E	
12434										15	5	25	x	2·55	–	x	1·0	11050E	
12435										55	x	25	0·1	4·3	–	x	1·0	11075E	
12436										10	5	10	x	1·75	–	x	1·0	11100E	
12438										55	385	180	0·3	6·0	–	x	1·0	11125E	
12439										65	5	115	x	10·5	–	x	1·0	11150E	
12440										85	25	25	x	2·2	–	x	1·0	11175E	
23118										40	30	210	3	7·18	<20	<5	10	11200E	
23119										25	25	70	2	3·41	<20	<20	50	11225E	
23120										10	30	25	2	1·77	<20	10	30	11250E	
23121										10	25	25	1	2·04	<20	5	30	11275E	
23122										10	15	20	1	0·75	<20	<5	30	11300E	
23123										10	25	15	1	0·61	<20	<5	30	11325E	
23124										15	55	45	4	3·00	<20	<5	<10	11350E	
23125										20	50	35	2	1·40	<20	10	30	11375E	
23126										10	20	25	1	0·87	<20	<5	50	11400E	
23127										20	20	25	2	1·44	<20	25	120	11425E	
23128										10	30	25	1	0·81	<20	30	70	11450E	
23129										10	20	20	1	0·83	<20	35	100	11475E	
23130										10	20	25	1	0·71	<20	25	70	11500E	

Metal content ppm or %

026

405027

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab samples rc = rock chip (state interval & length) cs = channel samples (state length)

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/[redacted] Rocky Cape — Sample numbers 23131 - 23134 — Collected by D. ROBERTSON — Sheet 10

Area / Prospect TEMMA — Date AUGUST 1983

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by A.L.S. - BRISBANE — DPO no.

A 02143

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE	Geological Observations
23131										10	20	20	1	0.54	<20	15	60	11525E	
23132										10	20	25	1	0.64	<20	20	60	11550E	
23133										10	25	15	1	0.49	<20	5	50	11575E	
23134										20	45	45	3	2.16	<20	<5	10	11600E	
END OF LINE																			

027

40502

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

Soil sample type auger hole or pit depth m A B or C horizon

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/7[redacted] Rocky Cape — Sample numbers 21109 - 21114, 21117 - 21118, 23227 - 23235 — Collected by T.BUGG/D.ROBERTSON — Sheet 11

Area / Prospect TEMMA — Analysed by ANALABS - COOEE, A.L.S. - BRISBANE — Date AUGUST 1983 / NOVEMBER 1982

Map / Photo reference SANDY CAPE 1:100,000 — DPO no 30434/

A 02143

028

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE 12400N	Geological Observations
NO SAMPLE										-	-	-	-	-	-	-	-	9100E	
NO SAMPLE										-	-	-	-	-	-	-	-	9125E	
21109										15	15	55	0.5	1.75	19	X	133	9150E	
21110										30	15	280	X	2.35	12	X	40	9175E	
21111										5	10	35	0.5	8850	X	X	11	9200E	
21112										10	20	60	X	1.95	10	X	12	9225E	
21113										115	5	95	X	5.75	15	X	20	9250E	
21114										100	10	90	X	6.20	23	X	16		
NO SAMPLE										-	-	-	-	-	-	-	-	9275E	
NO SAMPLE										-	-	-	-	-	-	-	-	9300E	
21117										45	5	95	0.5	1.30	20	X	45	9325E	
21118										95	15	170	X	7.45	22	X	28	9350E	
NO SAMPLE										-	-	-	-	-	-	-	-	9375E	
23225 ~~NO SAMPLE~~										~~15~~	15	20	+	1.31	<20	<5	~~70~~	9400E	
23226 ~~NO SAMPLE~~										~~10~~	25	~~80~~	2	2.41	<20	<5	40	9425E	
23227										20	25	30	2	1.56	<20	<5	80	9450E	
23228										25	20	30	2	1.90	<20	<5	60	9475E	
23229										30	20	90	2	2.65	<20	<5	50	9500E	
23230										35	30	95	2	2.26	<20	<5	90	9525E	
23231										20	20	35	1	3.21	<20	<5	60	9550E	
23232										30	30	100	2	2.50	<20	<5	20	9575E	
23233										30	80	105	3	5.32	<20	<5	40	9600E	
23234										10	10	20	1	1.08	<20	<5	60	9625E	
23235										45	20	30	2	1.30	<20	<5	30	9650E	

40 50 29

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

**** Soil sample type auger hole or pit depth m A, B or C horizon

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/7[illegible] Rocky Cape — Sample numbers 23236 – 23253 — Collected by D. ROBERTSON — Sheet 12

Area / Prospect TEMMA — Date AUGUST 1983

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by A.L.S. BRISBANE — DPO no.

A 02143

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE 12400N	Geological Observations
23236										10	20	20	2	1·02	<20	<5	80	9675E	
23237										15	30	20	2	1·02	<20	<5	30	9700E	
23238										20	30	25	2	1·17	<20	<5	10	9725E	
23239										15	25	40	2	1·46	<20	<5	30	9750E	
23240										60	20	45	2	3·06	<20	<5	40	9775E	
23241										20	20	45	4	1·65	<20	<5	60	9800E	
23242										10	25	45	2	1·37	<20	<5	<10	9825E	
23243										10	10	20	1	1·02	<20	<5	100	9850E	
23244										10	20	30	2	1·84	<20	<5	30	9875E	
23245										20	45	60	2	2·42	<20	<5	60	9900E	
23246										15	70	50	1	2·18	<20	<5	80	9925E	
23247										40	25	45	2	3·36	<20	<5	80	9950E	
23248										10	20	30	2	0·84	<20	5	20	9975E	
23249										15	25	30	2	1·02	<20	<5	30	10000E	
NO SAMPLE										—	—	—	—	—	—	—	—	10025E	
23250										10	10	30	1	0·68	<20	<5	80	10050E	
NO SAMPLE										—	—	—	—	—	—	—	—	10075E	
23251										20	30	60	2	1·56	<20	<5	10	10100E	
NO SAMPLE										—	—	—	—	—	—	—	—	10125E	
23252										10	20	70	3	2·74	<20	5	<10	10150E	
NO SAMPLE										—	—	—	—	—	—	—	—	10175E	
23253										25	20	75	2	1·68	<20	<5	10	10200E	
NO SAMPLE										—	—	—	—	—	—	—	—	10225E	

029

40530

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

**** Soil sample type auger hole or pit depth m A, B or C horizon

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/[redacted]ocky Cape — Sample numbers 23254 - [redacted]3258, 23212 - 23224 — Collected by D. ROBERTSON — Sheet [redacted] 13

Area / Prospect TEMMA — Date AUGUST 1983

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by A.L.S. - BRISBANE — DPO no.

A 02143

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE	Geological Observations
23254										15	30	50	3	1·35	<20	<5	<10	12400N 10250E	030
NO SAMPLE										—	—	—	—	—	—	—	—	10275E	
23255										30	40	60	3	1·91	<20	<5	10	10300E	
NO SAMPLE										—	—	—	—	—	—	—	—	10325E	
23256										35	20	60	2	2·79	<20	5	10	10350E	
NO SAMPLE										—	—	—	—	—	—	—	—	10375E	
23257										15	10	45	2	3·19	<20	<5	<10	10400E	
NO SAMPLE										—	—	—	—	—	—	—	—	10425E	
23258										50	25	125	3	8·49	<20	<5	<10	10450E	
NO SAMPLE										—	—	—	—	—	—	—	—	10475E	
23224										55	20	100	3	6·88	<20	<5	10	10500E	
23223										55	20	120	3	7·23	<20	<5	<10	10525E	
23222										50	25	140	3	7·38	<20	<5	<10	10550E	
23221										45	25	90	3	6·82	<20	<5	<10	10575E	
23220										50	30	120	3	7·72	<20	<5	<10	10600E	
23219										50	25	110	3	7·70	<20	<5	<10	10625E	
23218										60	30	105	3	8·48	<20	<5	<10	10650E	
23217										55	30	115	2	7·41	<20	<5	<10	10675E	
23216										50	30	100	3	7·87	<20	<5	<10	10700E	
23215										60	35	160	3	9·00	<20	<5	<10	10725E	
23214										55	25	170	3	8·42	<20	<5	<10	10750E	
23213										130	30	80	3	10·9	60	<5	<10	10775E	
23212										55	30	[illegible]	3	6·77	<20	<5	<10	10800E	

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

4050311

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 17/ Rocky Cape — Sample numbers 23200 - 23211 — Collected by D. ROBERTSON — Sheet 14

Area / Prospect TENTA — Date AUGUST 1983

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by A.L.S. - BRISBANE — DPO no.

A 02143

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE 12400N	Geological Observations 031
23211										50	30	110	3	7.42	<20	<5	<10	10825E	
23210										55	30	110	3	8.29	60	<5	<10	10850E	
23209										45	35	120	3	9.10	40	<5	<10	10875E	
23208										40	25	105	3	7.60	<20	<5	<10	10900E	
23207										25	35	45	3	8.35	<20	<5	<10	10925E	
23206										40	35	75	4	5.48	<20	<5	40	10950E	
23205										10	25	10	1	1.10	<20	<5	40	10975E	
23204										15	30	15	2	2.65	<20	5	10	11000E	
23203										20	45	15	2	2.79	<20	<5	10	11025E	
23202										15	30	20	1	1.14	<20	<5	<10	11050E	
23201										15	35	20	2	1.37	<20	5	<10	11075E	
23200										10	35	30	2	1.38	<20	<5	<10	11100E	
END OF LINE																			

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

**** Soil sample type auger hole or pit depth m A, B or C horizon

40503

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 17/[redacted]ocky Cape Sample numbers 21122 [redacted]21144 Collected by T. BVGG Sheet [redacted] 15

Area / Prospect TEMMA Date NOVEMBER 1982

Map / Photo reference SANDY CAPE 1:100,000 Analysed by ANALABS - COOEE DPO no. 30434

A 02143

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE 13900N	Geological Observations
21122										10	5	10	X	2100	X	X	27	9700E	
21123										5	5	10	X	2250	1	X	8	9725E	
21124										5	15	10	X	6350	7	X	9	9750E	
21125										10	50	25	0·5	6050	X	X	X	9775E	
21126										5	X	5	0·5	1700	X	X	13	9800E	
21127										15	20	25	0·5	1·55	7	X	153	9825E	
21128										5	10	25	X	8500	7	8	15	9850E	
21129										5	5	10	X	2300	2	X	6	9875E	
21130										5	10	35	X	1·95	10	X	8	9900E	
21131										10	10	30	X	2·70	12	6	X	9925E	
21132										5	15	40	0·5	8500	2	X	X	9950E	
21133										5	15	10	0·5	2800	X	X	X	9975E	
21134										25	10	55	X	1·25	6	5	17	10000E	
21135										10	10	25	X	3·65	32	4	X	10025E	
21136										10	5	40	X	1·00	8	X	6	10050E	
21137										5	50	20	X	2·70	10	X	X	10075E	
21138										5	5	20	X	1·80	8	X	X	10100E	
21139										5	40	30	X	2·55	12	X	7	10125E	
21140										5	15	25	X	8150	7	X	X	10150E	
21141										5	5	10	X	4050	6	X	5	10175E	
21142																		10200E	
21143										5	20	20	X	4750	8	X	14	10225E	
21144										5	15	20	X	5900	X	X	X	10250E	

032

40503

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

C.R.A. EXPLORATION GEOCHEMICAL SAMPLE LEDGER

Tenement name 17/ Rocky Cape — Sample numbers 21145 - 21166 — Collected by T. BUGG — Sheet 16

Area / Prospect TEMMA — Date NOVEMBER 1982

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by ANALABS - COOEE — DPO no. 30434

A 02143

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE 13900N	Geological Observations 033
21145										15	20	50	X	1·75	8	X	15	10275 E	
21146										5	55	50	X	1·35	8	X	9	10300E	
21147										5	20	25	X	4650	7	X	96	10325E	
21148										5	25	15	0·5	2550	7	X	52	10350E	
21149																		10375E	
21150										10	5	15	X	3950	X	X	17	10400E	
21151										70	45	60	X	5900	8	X	X	10425E	
21152										45	30	75	X	1·45	12	X	X	10450E	
21153										50	25	50	X	4250	10	X	17	10475E	
21154										20	15	35	X	1·05	8	X	15	10500E	
21155										25	10	35	0·5	1·10	6	X	X		
21156										15	15	30	X	9300	8	X	6	10525E	
NO SAMPLE										—	—	—	—	—	—	—	—	10550E	
NO SAMPLE										—	—	—	—	—	—	—	—	10575E	
21157										45	10	30	0·5	2300	X	X	33	10600E	
21158										5	10	10	X	1900	8	X	X	10625E	
21159										5	10	15	X	3·00	16	X	47	10650E	
21160										5	25	10	X	9600	7	X	30	10675E	
21161										5	5	10	X	2·10	7	X	9	10700E	
21162										20	30	30	X	4·70	8	X	X	10725E	
21163										20	20	60	X	6·15	10	X	X	10750E	
21164										5	45	15	X	6200	7	X	7	10775E	
21165										5	X	15	X	8800	6	X	13	10800E	
21166										10	45	35	X	1·70	12	X	6	10825E	

40 90 34

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

**** Soil sample type auger hole or pit depth m A, B or C horizon

C.R.A. EXPLORATION . GEOCHEMICAL SAMPLE LEDGER

Tenement name 1/[redacted] Rocky Cape — Sample numbers 21167 - [redacted]1177, 23167 - 23179 — Collected by T. BUGG / D. ROBERTSON — Sheet [redacted] 17

Area / Prospect TEMMA — ANALABS - COOEE — Date [redacted]EMBER 1982, AUGUST 1983

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by A.L.S. - BRISBANE — DPO no. 30434/

A 02143

Sample No. TS	Type ss * / oc / f / s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE 13900N	Geological Observations
21167										5	X	10	X	1950	7	5	14	10850 E	
21168										5	X	5	X	1700	1	X	113	10875 E	
21169																		10900 E	
21170										5	40	10	X	1·95	6	X	9	10925 E	
21171										5	X	30	X	1·70	10	X	13	10950 E	
21172																		10975 E	
21173										5	25	40	X	1950	X	X	64	11000 E	
21174										5	X	30	X	2·75	10	X	6	11025 E	
21175										10	X	35	X	3·10	10	X	29	11050 E	
21176										10	15	15	X	3100	10	X	X	11075 E	
21177										5	10	10	X	4000	1	X	X		
23167										15	20	30	3	4·60	<20	5	10	11100 E	
23168										10	20	40	2	3·93	20	<5	<10	11125 E	
23169										15	20	30	3	4·91	<20	<5	<10	11150 E	
23170										15	20	40	3	4·55	<20	<5	<10	11175 E	
23171										40	25	30	1	1·34	<20	5	10	11200 E	
23172										30	30	25	2	0·91	<20	5	20	11225 E	
23173										20	25	65	2	1·83	<20	<5	20	11250 E	
23174										15	25	45	2	2·24	<20	<5	20	11275 E	
23175										30	35	85	3	8·15	<20	<5	<10	11300 E	
23176										10	30	40	2	5·22	<20	<5	10	11325 E	
23177										20	35	25	3	4·72	<20	5	<10	11350 E	
23178										20	20	35	3	4·19	<20	<5	<10	11375 E	
23179										30	15	15	2	3·35	<20	<5	<10	11400 E	

034

40503E

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab sample rc = rock chip (state interval & length) cs = channel sample (state length)

**** Soil sample type auger hole or pit depth m A, B or C horizon

C.R.A. EXPLORATION — GEOCHEMICAL SAMPLE LEDGER

Tenement name [redacted]ocky Cape — Sample numbers 23180 [redacted] 23199 — Collected by D. ROBERTSON — Sheet [redacted] 18

Area / Prospect TEMA — Date AUGUST 1983

Map / Photo reference SANDY CAPE 1:100,000 — Analysed by A.L.S. - BRISBANE — DPO no.

02143

Sample No. TS	Type ss * oc f s	ss channel ** fl	wi	al	co	ca	pH	o/c sample type ***	s sample type ****	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Grid LINE 13900N	Geological Observations
23180										10	15	10	2	3·32	<20	5	<10	11425E	
23181										20	25	20	2	3·87	<20	<5	10	11450E	
23182										20	20	20	2	7·62	<20	<5	<10	11475E	
23183										10	30	15	1	0·66	<20	5	10	11500E	
23184										20	40	40	2	9·68	<20	<5	10	11525E	
23185										135	40	20	2	7·40	<20	<5	10	11550E	
23186										75	25	20	2	3·99	<20	5	<10	11575E	
23187										10	30	25	1	0·99	<20	<5	10	11600E	
23188										10	20	25	1	1·15	<20	<5	<10	11625E	
23189										10	25	20	2	2·89	<20	<5	20	11650E	
23190										20	25	60	3	7·62	<20	5	10	11675E	
23191										15	30	25	3	6·80	<20	5	10	11700E	
23192										10	20	20	2	3·78	<20	<5	10	11725E	
23193										25	25	65	3	9·03	<20	<5	10	11750E	
23194										25	30	55	3	7·99	<20	<5	<10	11775E	
23195										25	30	95	3	7·70	<20	<5	<10	11800E	
23196										55	20	110	3	8·77	<20	<5	<10	11825E	
23197										20	20	25	2	1·52	<20	<5	10	11850E	
23198										20	40	25	3	5·80	<20	<5	<10	11875E	
23199										15	20	10	1	0·48	<20	<5	30	11900E	

035

40503G

* Sample type ss = stream sediment oc = outcrop f = float s = soil

** Stream sed. sample description fl = flow m3/sec wi = width m al = alluvial co = colluvial ca = catchment km2

*** Outcrop sample type gs = grab samples rc = rock chip (state interval & length) cs = channel samples (state length)

405037

036

Central Mineralogical Services

39 Beulah Road
Norwood, S.A. 5067
Telephone 42 5659

Dr. R.R. Large
Supervising Geologist
Geopeko
P.O. Box 598
DEVONPORT / TAS. 7310

7th September, 1983

REPORT CMS 83/8/29

YOUR REFERENCE:	D.P.O. No. 31861
DATE RECEIVED:	17th August, 1983
SAMPLE NOS.:	KR 23127, KR 23243
SUBMITTED BY:	R. Perring
WORK REQUESTED:	Petrology/Mineralogy

Samples from Tamma

11200 N
11425 E
Refer TS 23127

12400 N
9850 E
Refer TS 23243

H.W. Fander, M. Sc.

Copy & Invoice to:
Administration Officer
C.R.A. Exploration Pty. Ltd.
P.O. Box 138
ROSNY PARK / TAS. 7018

4050038

CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 7th September, 1983

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

IDENTIFICATION
KR 23127, KR 23243

Lab No. CMS 83/8/29 Date Received: 17.8.1983

Reference DPO No. 31861

Sample No. KR 23127, KR 23243

Nature of Sample: Sand + Rock

DESCRIPTION **SECTION No.**

a. Hand Specimen:

b. Microscopic:

Both samples were washed and deslimed to remove humus and clays and to disaggregate friable/unconsolidated material. Humus and carbonaceous material was abundant, and the washed samples were pale and quartzose. Only one contained rock fragments (KR 23127) and a thin-section was prepared of one of the larger fragments, whose lithology seemed very similar (quartzites).

50 gm portions of the -18 mesh (850 μ) washed, dried samples were separated in TBE (S.G. = 2.95) to produce heavy fractions for examination. No artificial/metallic contaminants were detected.

23127 (T.S. 46942)

This is a metaquartzite, in the sense that clastic textures are poorly preserved and the quartz is now recrystallized; however, there are no metamorphic structures, and the grade of metamorphism was low. The original rock was an orthoquartzite or feldspathic sandstone (Pettijohn); it is suspected that the present porosity is due to the leaching of feldspar grains.

The present rock consists of interlocking small grains of quartz, with typical sutured boundaries; a vague banding is due to thin parallel lenses of coarser, more compact quartz. Occasional rounded, detrital zircon grains occur. Tourmaline occurs both as rough detrital grains as well as very small euhedral crystals (singly and in small groups); the crystals may be authigenic or may actually represent a weak phase of tourmalinisation. A few detrital muscovite flakes are seen, as well as isolated grains of unaltered feldspar.

TBE Heavy Fraction (0.4 % of sample, by weight)

The major heavy minerals are ilmenite, zircon and tourmaline (green, brown, blue), with minor leucoxene and rutile; trace amounts of andalusite, sillimanite, topaz, hornblende, anatase, staurolite, monazite and possible cassiterite are present. The ?cassiterite is difficult to distinguish from some of the zoned brown/mauve zircon which is common. All the grains are subrounded to rounded. No W minerals were identified, though some of the black opaque "ilmenite" could be abraded wolframite. A UV check failed to detect scheelite. However, it is also possible that tungsten may occur in absorbed form in the humus/organic matter.

KR 23243 TBE Heavy Fraction (0.1 % of sample)

The major heavy minerals are ilmenite, leucoxene, authigenic pyrite, and tourmaline; minor components are zircon (colourless and mauve), pyroxenes and amphiboles, rutile and andalusite. Traces of staurolite, sillimanite, kyanite, garnet, topaz are also present. A single grain of possible scheelite was tentatively identified.

This mineral assemblage differs from that of KR 23127 in that zircon and rutile are far less common, pyroxenes and amphiboles are present, and the metamorphic suite is more extensive. It is very unlikely that either assemblage originated from the metaquartzite described above, for a number of reasons; thus, by inference, it seems equally unlikely that the metaquartzite was the source of the W anomalies. The heavy mineral assemblages suggest a granitic situation with pneumatolysis, contact-metamorphism of aluminous sediments, and a (separate?) source of basic igneous rocks, possibly unrelated to, and younger than, the igneous-metamorphic suite.

H.W. Fander, M. Sc.

FILE NO: TS 1/77 - Tem - 46

306000mE 307000mE 308000mE 309000mE 310000mE 311000mE 312000mE

54 35000mN

54 34000mN

54 33000mN

54 32000mN

54 31000mN

54 30000mN

54 29000mN

54 28000mN

54 27000mN

ARTHUR RIVER ROAD

KENNETH CREEK

LANDING GROUND

KAYWOOD HOMESTEAD

POPPY'S LAGOON

GAFFNEY Pt.

TEMMA

TEMMA HARBOUR

LITTLE EEL CREEK

LITTLE EEL

RICHARDSON Pt.

BIG EEL CREEK

DARTYS CORNER

LIMIT OF RECENT COVER

EUCALYPT FOREST

LINE 13900N

LINE 13100N

LINE 12400N

LINE 11200N

LINE 11600N

LINE 9800N

intb lam sh-fg qtzt

intb sstn-sh

cross bedded sstn

(?-fg qtzt float

intb lam sh and mic sstn

tertiary laterite

lam silt

lam mic silt

lam/bdd silt

lam brown shale

cross bedded mass sstn

lam qtzt

(?lam qtzt

cro bedded mass sstn.

lam shales

grey lam qtzt

mic lam silt

bas

ironstone

intb/lam.

cross bedded grey qtzt.

interbed/lam grey qtzt.

grey mic lam. silty qtzt.

grey mic silty qtzt.

intb/lam. qtzt.

white mass qtzt.

qtzt

lam/bed sstn/silty sstn.

lam chl qtzt

sstn/silt

mass

lam silt/qtzt

bedded sstn/silt

chl silt

chl/lam silt

POSSUM CREEK GRID

lam chert

bedded sstn.

mic sstn

intb. lam silt/sstn.

grey qtzt

intb. lam silt and sstn

SECTION

PLAN VIEW

PARDOE CREEK

EVA Pt.

RECENT SAND COVER

HAZARD BAY

NO MANS CREEK

POSSUM BAY

SOUTHERN OCEAN

INGRAM BAY

SANDY CAPE ROAD

SYMES CREEK

BALFOUR ROAD

DAWSON CREEK

GRACE CREEK

405040

REFERENCE

- BUILDING
- ROAD, TRACK
- CREEK
- FOREST
- OUTCROP
- FLOAT
- 55 BEDDING
- 80 CLEAVAGE
- qtzt quartzite
- silt siltstone
- sstn sandstone
- bas basalt
- bdd bedded
- chl chloritic
- fg fine grained
- intb. interbedded
- lam laminated
- mass massive
- mic micaceous

RECENT	19-6	sand gravel
TERTIARY	19-11	basalt
PRECAMBRIAN	19-51	shales siltstones sandstones quartzites

GN TN MN 10.4°

GRID CONVERGENCE 1.5°

DATE : AUG 83

GEOL : R.J.P

DRAWN : M.vdS.

CHECKED :

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

84-2151

Scale : 1:10,000 | No : 1.

Tem-46

E.L 1/77 ROCKY CAPE, TASMANIA

TEMMA

5 cm

GEOLOGY

3235

FILE NO: TS 1/77-Tem-47

54 35000mN

54 34000mN

54 33000mN

54 32000mN

54 31000mN

54 30000mN

54 29000mN

54 28000mN

54 27000mN

306000mE

307000mE

308000mE

309000mE

310000mE

311000mE

312000mE

ARTHUR RIVER ROAD

KENNETH CREEK

LANDING GROUND

KAYWOOD HOMESTEAD

POPPY'S LAGOON

EUCALYPT FOREST

LINE 13900N

GAFFNEY Pt.

TEMMA

TEMMA HARBOUR

LITTLE EEL CREEK

62600nT

62400nT

62200nT

62000nT

RICHARDSON Pt.

LITTLE EEL

LINE 13100N

BIG EEL CREEK

DARTYS CORNER

EUCALYPT FOREST

LINE 12400N

PARDOE CREEK

EVA Pt.

LINE 11200N

HAZARD BAY

NO MANS CREEK

LINE 11600N

POSSUM CREEK

BALFOUR ROAD

POSSUM CREEK GRID

LINE 9800N

SOUTHERN OCEAN

SYNES CREEK

INGRAM BAY

SANDY CAPE ROAD

DAWSON CREEK

GRACE CREEK

405041

5 cm

REFERENCE

- BUILDING
- ROAD, TRACK
- CREEK
- FOREST

GN TN MN 10.4°

GRID CONVERGENCE 1.5°

DATE : AUG 83

GEOL : R.J.P

DRAWN : Mad'S

CHECKED :

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

84-2151

metres | Scale : 1:10,000 | No : 2.

Tem-47

E.L 1/77 ROCKY CAPE, TASMANIA

TEMMA

TOTAL MAGNETIC INTENSITY LINE PROFILES

3236

HORZ. SCALE 1:10,000 VERT. SCALE 1cm:200nT

FILE NO: TS 1/77-Tem-48

3 06 000mE
3 07 000mE
3 08 000mE
3 09 000mE
3 10 000mE
3 11 000mE
3 12 000mE

54 35 000mN
54 34 000mN
54 33 000mN
54 32 000mN
54 31 000mN
54 30 000mN
54 29 000mN
54 28 000mN
54 27 000mN

ARTHUR RIVER ROAD
LANDING GROUND
KAYWOOD HOMESTEAD
KENNETH CREEK
POPPY'S LAGOON
GAFFNEY Pt.
TEMMA
TEMMA HARBOUR
LITTLE EEL CREEK
RICHARDSON Pt.
LITTLE EEL
BIG EEL CREEK
DARTYS CORNER
EUCALYPT FOREST
LINE 13900N
LINE 13100N
LINE 12400N
LINE 11200N
EVA Pt.
PARDOE CREEK
HAZARD BAY
NO MANS CREEK
Possum Banks
LINE 11600N
Possum Creek
POSSUM CREEK
BALFOUR ROAD
POSSUM CREEK GRID
LINE 9800N
SOUTHERN OCEAN
INGRAM BAY
SAWYER CASE ROAD
SYMES CREEK
GRACE CREEK
DAWSON CREEK

405042

5 cm

REFERENCE

- BUILDING
- ROAD, TRACK
- CREEK
- FOREST

21064 — sample number / sample location

GN
TN MN
10.4°
GRID CONVERGENCE 1.5°

DATE : Aug 83
GEOL : R.J.P.
DRAWN : MvDS, R.Tag
CHECKED :

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

BL-2151

100 0 100 200 300 400 500 metres — Scale : 1:10,000 — No : 3. Tem-48

E.L 1/77 ROCKY CAPE, TASMANIA

TEMMA

Sample Location Plan

3237

FILE NO : TS 1/77 - Tem - 49

ARTHUR RIVER ROAD
KENNETH CREEK
POPPY'S LAGOON
LANDING GROUND
KAYWOOD HOMESTEAD
EUCALYPT FOREST
LINE 13900N
GAFFNEY Pt.
TEMMA
TEMMA HARBOUR
LITTLE EEL CREEK
200ppm
100ppm
LINE 13100N
RICHARDSON Pt.
LITTLE EEL
BIG EEL CREEK
DARTYS CORNER
LINE 12400N
EUCALYPT FOREST
EVA Pt.
PARDOE CREEK
LINE 11200N
HAZARD BAY
NO MANS CREEK
LINE 10600N
POSSUM CREEK
BALFOUR ROAD
POSSUM CREEK GRID
LINE 9200N
SOUTHERN OCEAN
SYMES CREEK
INGRAM BAY
SANDY CAPE ROAD
GRALE CREEK
DAWSON CREEK

405043

5 cm

REFERENCE
- BUILDING
- ROAD, TRACK
- CREEK
- FOREST

GN
TN MN
10.4°
GRID CONVERGENCE 1.5°

DATE : Aug 83
GEOL : R.I.P
DRAWN : R.Tog
CHECKED :

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT
84-2151
Scale : 1 : 10,000 | No : 4. | Tem - 49

E.L 1/77 ROCKY CAPE, TASMANIA
TEMMA
Cu ppm C-Horizon Soil Geochemistry Profiles
3238

FILE NO: TS 1/77-Term-50

306000mE 307000mE 308000mE 309000mE 310000mE 311000mE 312000mE

54 35000mN

54 34000mN

54 33000mN

54 32000mN

54 31000mN

54 30000mN

54 29000mN

54 28000mN

54 27000mN

ARTHUR RIVER ROAD

KENNETH CREEK

LANDING GROUND

KAYWOOD HOMESTEAD

POPPY'S LAGOON

GAFFNEY Pt.

TEMMA

TEMMA HARBOUR

LITTLE EEL CREEK

200ppm

100ppm

LITTLE EEL

RICHARDSON Pt.

BIG EEL CREEK

LINE 13900N

LINE 13100N

LINE 12400N

LINE 11200N

LINE 11600N

EUCALYPT FOREST

DARTYS CORNER

EVA Pt.

PARDOE CREEK

NO MANS CREEK

HAZARD BAY

POSSUM CREEK

POSSUM CREEK GRID

BALFOUR ROAD

LINE 9200N

SYMES CREEK

SAVAGE CAPE ROAD

DAWSON CREEK

GRACE CREEK

INGRAM BAY

SOUTHERN OCEAN

405044

5 cm

REFERENCE

- BUILDING
- ROAD, TRACK
- CREEK
- FOREST

GN TN MN 10.4°

GRID CONVERGENCE 1.5°

DATE : AUG 83

GEOL : R.J.P.

DRAWN : R.Tog

CHECKED :

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

84-2151

metres | Scale 1 10,000 | No 5.

E.L 1/77 ROCKY CAPE, TASMANIA Term-50

TEMMA

Pb ppm C-Horizon Soil Geochemistry Profiles

3239

FILE NO: TS 1/77-Tem-51

ARTHUR RIVER ROAD
KENNETH CREEK
LANDING GROUND
KAYWOOD HOMESTEAD
POPPY'S LAGOON
GAFFNEY Pt.
TEMMA
TEMMA HARBOUR
LITTLE EEL CREEK
LITTLE EEL
RICHARDSON Pt.
BIG EEL CREEK
DARTYS CORNER
EUCALYPT FOREST
LINE 13900N
LINE 13100N
LINE 12400N
LINE 11800N
LINE 10600N
PARDOE CREEK
EVA Pt.
HAZARD BAY
NO MANS CREEK
POSSUM CREEK
POSSUM CREEK GRID
BALFOUR ROAD
LINE 9800N
SYMES CREEK
SANDY CAPE ROAD
DAWSON CREEK
GRACE CREEK
INGRAM BAY
SOUTHERN OCEAN
200ppm
100ppm
150ppm
50ppm
5 cm

REFERENCE
- Building
- Road, Track
- Creek
- Forest

GN
TN
MN
10.4°
GRID CONVERGENCE 1.5°

DATE : AUG 83
GEOL : R.J.P.
DRAWN : R.Tag
CHECKED :

405045

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

84-2151
Scale : 1 : 10,000 | No : 6.
Tem-51

E.L 1/77 ROCKY CAPE, TASMANIA

TEMMA

3240

Zn ppm C-Horizon Soil Geochemistry Profiles

FILE NO: TS 1/77-Tem-52

54 35000mN

54 34000mN

54 33000mN

54 32000mN

54 31000mN

54 30000mN

54 29000mN

54 28000mN

54 27000mN

3 06000mE

3 07000mE

3 08000mE

3 09000mE

3 10000mE

3 11000mE

3 12000mE

ARTHUR RIVER ROAD

KENNETH CREEK

LANDING GROUND

KAYWOOD HOMESTEAD

POPPY'S LAGOON

GAFFNEY Pt.

TEMMA

TEMMA HARBOUR

LITTLE EEL CREEK

RICHARDSON Pt.

LITTLE EEL

BIG EEL CREEK

DARTYS CORNER

EUCALYPT FOREST

LINE 13900N

LINE 13100N

LINE 12400N

LINE 11200N

LINE 10600N

50ppm
40ppm
30ppm
20ppm
10ppm
0

60ppm
50ppm
40ppm
30ppm
20ppm
10ppm
0

80ppm
60ppm
30ppm
20ppm
10ppm
0

EVA Pt.

PARDOE CREEK

HAZARD BAY

NO MANS CREEK

POSSUM BASE LINE 10000E

POSSUM CREEK

BALFOUR ROAD

POSSUM CREEK GRID

LINE 9800N

SOUTHERN OCEAN

INGRAM BAY

SYMES CREEK

SANDY CAPE ROAD

DAWSON CREEK

GRACE CREEK

405046

5 cm

REFERENCE

- BUILDING
- ROAD, TRACK
- CREEK
- FOREST

GN
TN
MN
10·4°
GRID CONVERGENCE 1·5°

DATE : Aug 83
GEOL : R.J.P.
DRAWN : R.J.W.
CHECKED :

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

84-2151

metres | Scale : 1:10,000 | No : 7. Tem-52

E.L 1/77 ROCKY CAPE, TASMANIA

TEMMA

As ppm C-Horizon Soil Geochemistry

3241

FILE NO: TS 1/77-Tem-53

ARTHUR RIVER ROAD
KENNETH CREEK
POPPY'S LAGOON
LANDING GROUND
KAYWOOD HOMESTEAD
EUCALYPT FOREST
LINE 13900N
LINE 13100N
LINE 12400N
LINE 11200N
LINE 10600N
LINE 9200N
GAFFNEY Pt.
TEMMA
TEMMA HARBOUR
LITTLE EEL CREEK
LITTLE EEL
RICHARDSON Pt.
BIG EEL CREEK
DARTYS CORNER
PARDOE CREEK
EVA Pt.
HAZARD BAY
NO MANS CREEK
POSSUM CREEK
POSSUM CREEK GRID
BALFOUR ROAD
SYMES CREEK
SANDY CAPE ROAD
GRACE CREEK
DAWSON CREEK
INGRAM BAY
SOUTHERN OCEAN
10ppm D
50ppm 40ppm 30ppm 20ppm 10ppm 0
405047
5 cm

REFERENCE
- BUILDING
- ROAD, TRACK
- CREEK
- FOREST

GN TN MN 10.4°
GRID CONVERGENCE 1.5°

DATE : Aug 83
GEOL : R.I.P.
DRAWN : R.Tog
CHECKED :

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

84-2157
metres | Scale : 1:10,000 | No : 8.
Tem-53

E.L 1/77 ROCKY CAPE, TASMANIA

TEMMA

Sn ppm C-Horizon Soil Geochemistry Profiles

3242

FILE NO : TS 1/77-Tem-WP

306 000mE
307 000mE
308 000mE
309 000mE
310 000mE
311 000mE
312 000mE
54 35 000mN
54 34 000mN
54 33 000mN
54 32 000mN
54 31 000mN
54 30 000mN
54 29 000mN
54 28 000mN
54 27 000mN

ARTHUR RIVER ROAD
KENNETH CREEK
LANDING GROUND
KAYWOOD HOMESTEAD
POPPY'S LAGOON
EUCALYPT FOREST
GAFFNEY Pt.
TEMMA
TEMMA HARBOUR
LITTLE EEL CREEK
LITTLE EEL
RICHARDSON Pt.
BIG EEL CREEK
DARTYS CORNER
EUCALYPT FOREST
EVA Pt.
PARDOE CREEK
HAZARD BAY
NO MANS CREEK
POSSUM CREEK
POSSUM CREEK GRID
BALFOUR ROAD
SOUTHERN OCEAN
SYMES CREEK
SAVAGE CAPE ROAD
INGRAM BAY
GRACE CREEK
DAWSON CREEK

LINE 13900N
LINE 13100N
LINE 12400N
LINE 11200N
LINE 10600N
LINE 9200N

150ppm
100ppm
50ppm
0
250ppm
200ppm
50 ppm
40 ppm
30 ppm
20 ppm
10 ppm

405048

5 cm

REFERENCE
- BUILDING
- ROAD, TRACK
- CREEK
- FOREST

GN
TN
MN
10.4°
GRID CONVERGENCE 1.5°

DATE : Aug. 82
GEOL : R.I.P.
DRAWN : R.Tag
CHECKED :

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

84-2151

metres | Scale : 1 : 10,000 | No : 9.

Tem-54

E.L 1/77 ROCKY CAPE, TASMANIA

TEMMA

3243

Wppm C-Horizon Soil Geochemistry Profiles

FILE NO: TS 1/77-Tem-55

306 000mE 307 000mE 308 000mE 309 000mE 310 000mE 311 000mE 312 000mE

54 35 000mN

54 34 000mN

54 33 000mN

54 32 000mN

54 31 000mN

54 30 000mN

54 29 000mN

54 28 000mN

54 27 000mN

ARTHUR RIVER ROAD

KENNETH CREEK

LANDING GROUND

KAYWOOD HOMESTEAD

POPPY'S LAGOON

EUCALYPT FOREST

LINE 13900N

Copper

GAFFNEY Pt.

TEMMA

TEMMA HARBOUR

magnetics

Tungsten

LITTLE EEL CREEK

LINE 13100N

RICHARDSON Pt.

LITTLE EEL

BIG EEL CREEK

EUCALYPT FOREST

DARTYS CORNER

LINE 12400N

Zinc

mag/copper/Zinc

Copper/Zinc/Tungsten

PARDOE CREEK

EVA Pt.

LINE 11800N

Tin/Tungsten

HAZARD BAY

NO MANS CREEK

Zinc/Tungsten

LINE 10600N

Copper/Lead/Tungsten/mag

Tin

POSSUM CREEK

BALFOUR ROAD

POSSUM CREEK GRID

LINE 9800N

SOUTHERN OCEAN

SYMES CREEK

INGRAM BAY

SAVAGE CAPE ROAD

DAWSON CREEK

GRACE CREEK

405049

5 cm

REFERENCE

- BUILDING
- ROAD, TRACK
- CREEK
- FOREST
- Anomaly

GN
TN MN
10.4°
GRID CONVERGENCE
1:5°

DATE : Aug 83
GEOL : R.T.P
DRAWN : R.Tog
CHECKED :

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

84-2151

100 0 100 200 300 400 500 metres

Scale : 1:10,000

No : 10.

Tem-55

E.L 1/77 ROCKY CAPE, TASMANIA

TEMMA

3244

Summary of Soil Geochemistry and Magnetics

FILE NO: TS 1/77-Tem-55

Strickland Grid

ARTHUR RIVER ROAD

KENNETH CREEK

LANDING GROUND

KAYWOOD HOMESTEAD

POPPYS LAGOON

GAFFNEY Pt.

TEMMA

TEMMA HARBOUR

LITTLE EEL CREEK

RICHARDSON Pt.

BIG EEL CREEK

DARTYS CORNER

EUCALYPT FOREST

LINE 13900N

LINE 12400N

LINE 11200N

LINE 10000N

LINE 8800N

LINE 7600N

Copper

Tungsten

magnetics

Zinc

Copper/Zinc

Tin/Tungsten

mag/Copper/Zinc

Zinc/Tungsten

EVA Pt.

HARDOE CREEK

HAZARD BAY

NO MANS CREEK

POSSUM CREEK

DRILL

BALFOUR ROAD

LINE 4800N

SANDY CAPE Road

DAWSON CREEK

GRAVEL CREEK

INGRAM BAY

SYMES CREEK

SOUTHERN OCEAN

REFERENCE

- BUILDING
- ROAD, TRACK
- CREEK
- FOREST
- Anomaly

GN TN MN 10.4°

GRID CONVERGENCE 1.5°

DATE: Aug 83
GEOL: R.J.P
DRAWN: J.S.G
CHECKED:

405050 GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

84-2151

Scale 1:10,000 | No 11.

E.L 1/77 ROCKY CAPE, TASMANIA Tem-55

TEMMA 5 cm

Summary of Soil Geochemistry and Magnetics

3245