# Open File Envelope No. 5326

**EL 1084** 

# **MOUNT ALECK**

# PARTIAL SURRENDER REPORT FOR THE PERIOD 19/11/82 TO 18/11/83

Submitted by BHP Minerals Ltd 1984

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Enquiries: Customer Services Branch

Minerals and Energy Resources

7th Floor

101 Grenfell Street, Adelaide 5000

Telephone: (08) 8463 3000 Facsimile: (08) 8204 1880



# **ENVELOPE 5326**

TENEMENT:

EL 1084, Mt Aleck

TENEMENT HOLDER:

BHP Minerals Ltd

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EXPLORATION LICENCE 1084

MT. ALECK, SOUTH AUSTRALIA

PARTIAL RELINQUISHMENT REPORT

# EXPLORATION LICENCE 1084

# MT. ALECK, SOUTH AUSTRALIA

# PARTIAL RELINQUISHMENT REPORT

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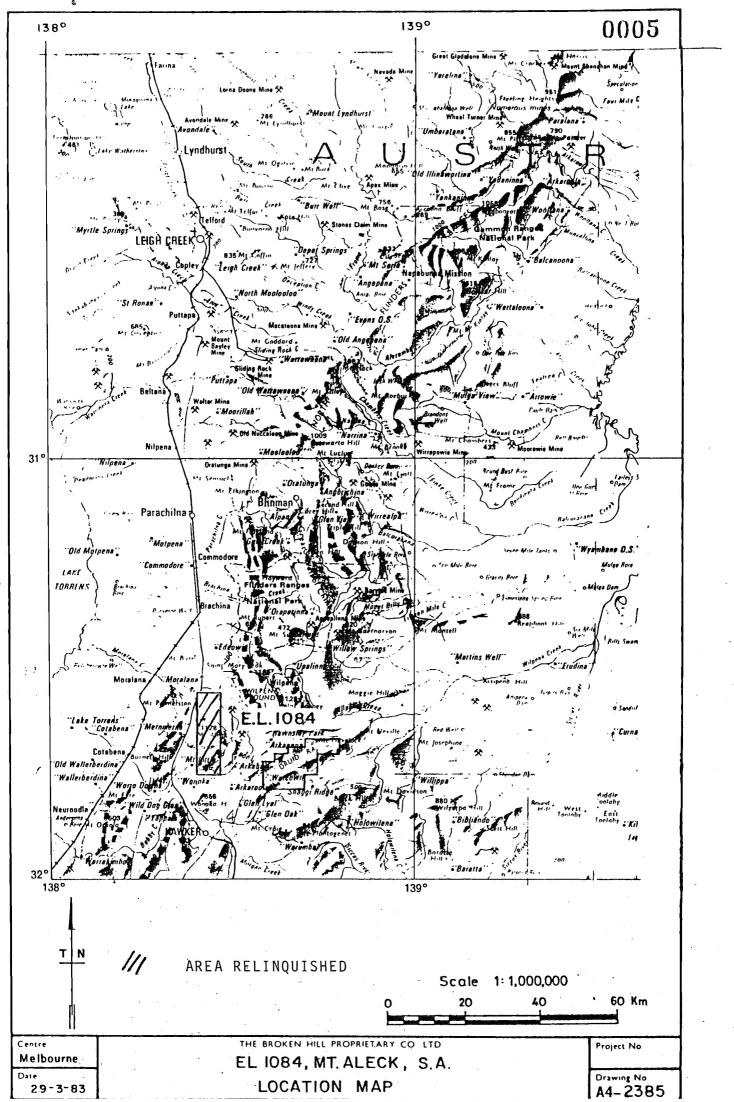
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### EXPLORATION LICENCE 1084

# MT. ALECK, SOUTH AUSTRALIA

## PARTIAL RELINQUISHMENT REPORT

# 1. GENERAL

Exploration Licence 1084 of 298 square kilometres was granted to BHP Minerals Limited for one year on 19th November, 1982. This licence replaced E.L. 727, which was originally granted to BHP Minerals Limited (formerly Dampier Mining Company Limited) over a larger area of 780 square kilometres on 22nd September, 1980. A twelve month extension was granted to E.L. 727 over a reduced area of 474 square kilometres on 22nd September, 1981.

A twelve month extension to E.L. 1084 was granted on 19th November, 1983 over a reduced area of 150 square kilometres, which incorporates the Chace and Druids Ranges area.

This report covers the work carried out on the relinquished portion (Mern Merna Syncline) of E.L. 1084 Mt. Aleck.

# 2. SUMMARY OF EXPLORATION CARRIED OUT

- a) Literature search of all previous exploration and research data.
- b) Reconnaissance geological mapping and prospecting (helicopter supported).
- c) Colour aerial photography at 1:20,000 scale.
- d) Stream sediment sampling.
- e) Rock-chip / soil sampling of Vanessa Prospect.

### 3. RESULTS FROM ABOVE WORK

a) Geological mapping on the eastern limb of the Mern Merna Syncline showed that potential existed within the Lower Cambrian carbonates for Mississippi Valley Type mineralization. Further prospecting in the area failed to detect any major zones of mineralization; sporadic mineralization (galena/sphalerite) is present in the basal units of the Wilkawillina Limestones, as had been previously detected by former explorers, however, lack of sufficient prepared ground (karst fill, brecciation, porosity) downgraded the potential of the area.

### b) Vanessa Prospect

Barite, copper and zinc mineralization was discovered associated with a faulted block of Lower Cambrian carbonates on the eastern side of the Mern Mera Syncline.

South dipping massive Wilkawillina Limestone is fault bound to the north against westward dipping shaley Parara limestone. The mineralization (Vanessa Prospect) is associated with this fault zone.

Extensive areas of talus scree and Tertiary silcrete capping cover a large proportion of this area.

Twenty-eight (28) stream sediment samples were collected from streams draining this faulted area. (Sample Nos. 6857-6884). The -20 +80 mesh fraction of these samples was analysed by COMLABS (Adelaide) for Cu, Pb, Zn, by AAS methods.

The results were generally low, with maximum values being 60ppm, 130ppm and 200ppm for Cu, Pb, Zn respectively (background values 15ppm, 20ppm, 45ppm).

A total of one hundred and forty-seven (147) soil samples were collected at 50 metre intervals on the Vanessa Prospect grid (1,000 x 300 m).

All samples were analysed by COMLABS (Adelaide) for Cu, Pb and Zn by AAS methods.

Maximum values (background values in brackets) for this programme were 710ppm (8ppm), 60ppm(6ppm) and 650ppm (45ppm) for Cu, Pb and Zn respectively.

# 4. EXPENDITURE

Expenditure debited to E.L. 1084 to the end of January, 1984 is:-

Wages & Salaries	16,946
Field Support	2,531
Vehicles	2,249
Equipment	6,324
Geochemistry	9,008
Surveying	4,387
Tenement fees	1,287
Services	717
Sundries	326
Administration & Overheads	2,188
	\$45 <b>,</b> 963

# E.L. 1084 MT. ALECK - PARTIAL RELINQUISHMENT

# FLINDERS UNCONFORMITY

The Flinders Unconformity and associated mineralization is our major target within the Lower Cambrian carbonates of the Flinders Ranges, for Mississippi Valley Style Pb/Zn.

Within our other tenements in the Flinders Ranges (e.g. Donkey Bore, Wirrealpa Mine, Linda Prospect, etc.), exploration is still being carried out to delineate the continuity of the mineralization at depth.

Within the Mern Merna Syncline, this unconformity is not as well expressed on the surface as it is in other tenements, and only trace amounts of lead and zinc mineralization were detected during our exploration activities.

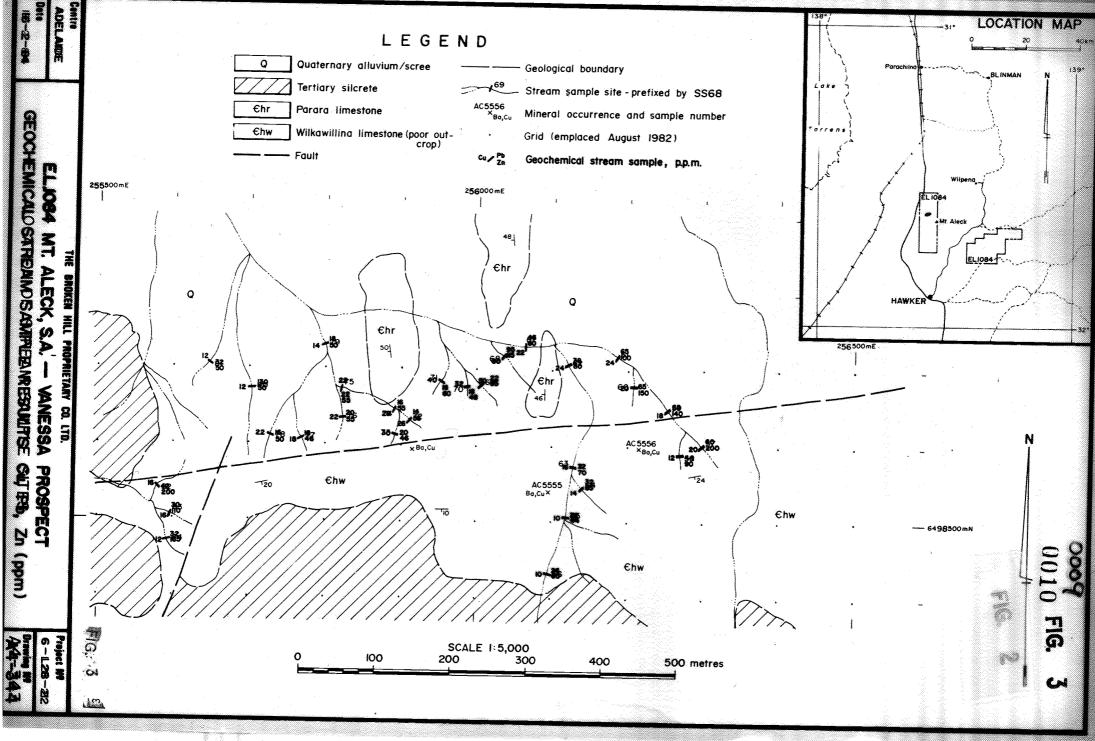
This area was given the lowest priority when recently we rated the various prospects in the Flinders Ranges. Although the potential still exists in the Mern Merna Syncline for extensive MVT mineralization, the cost of exploration would be higher here than it would in other prospects where we have greater knowledge of the geology, prepared ground and mineralization.

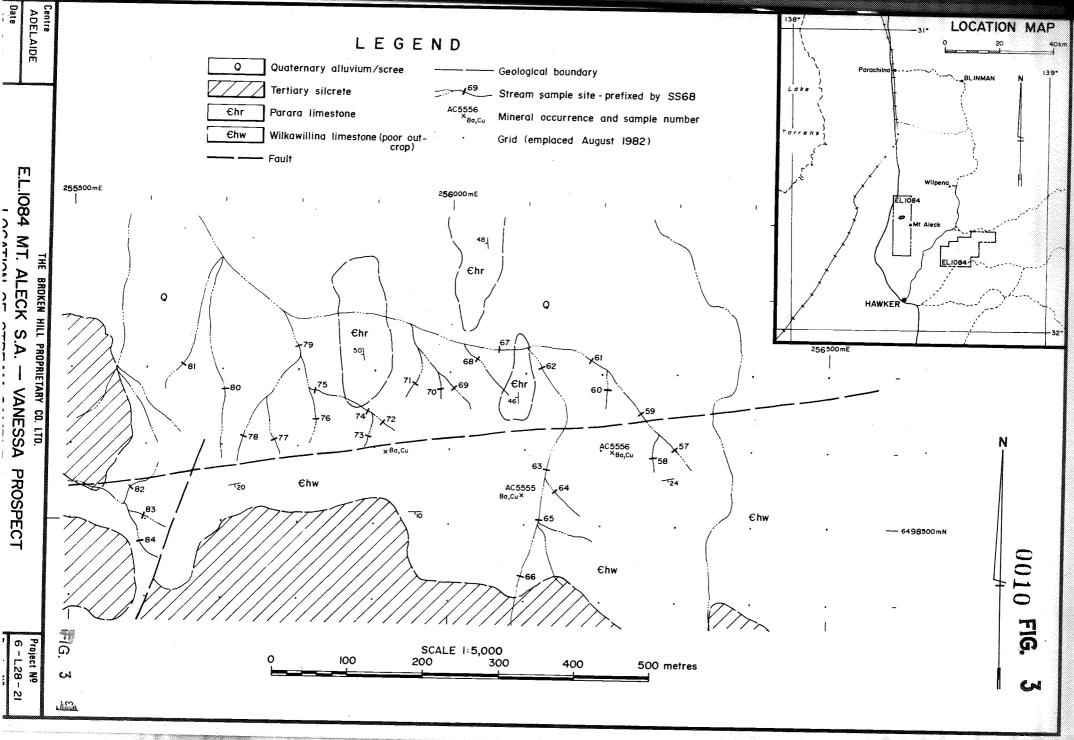
# CHASE AND DRUID RANGES

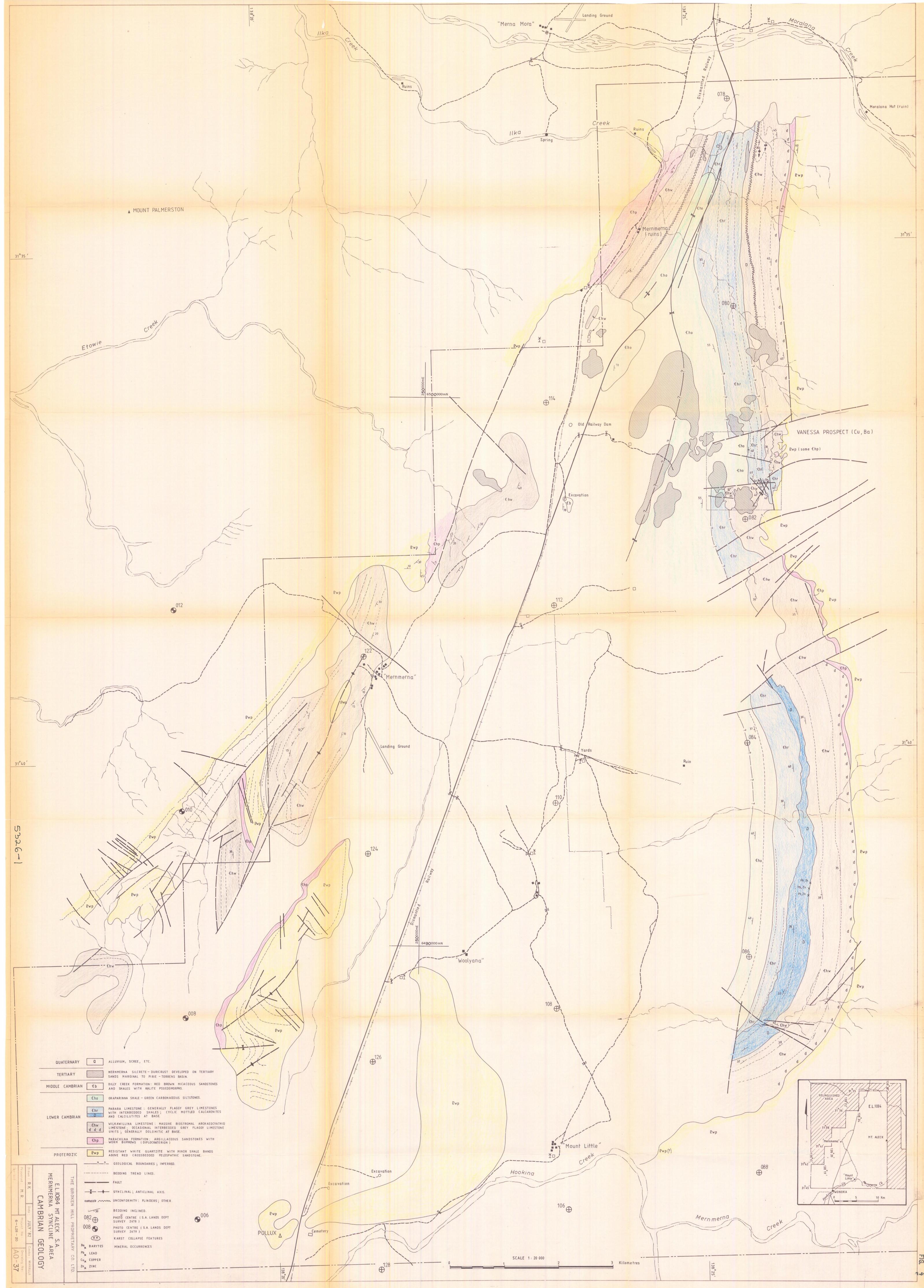
An anomalous zone (approximately 6 km. strike length) of Pb, Zn geochemistry was detected during our stream sediment sampling programme within the Chace and Druid Ranges. Further exploration in this area is warranted.

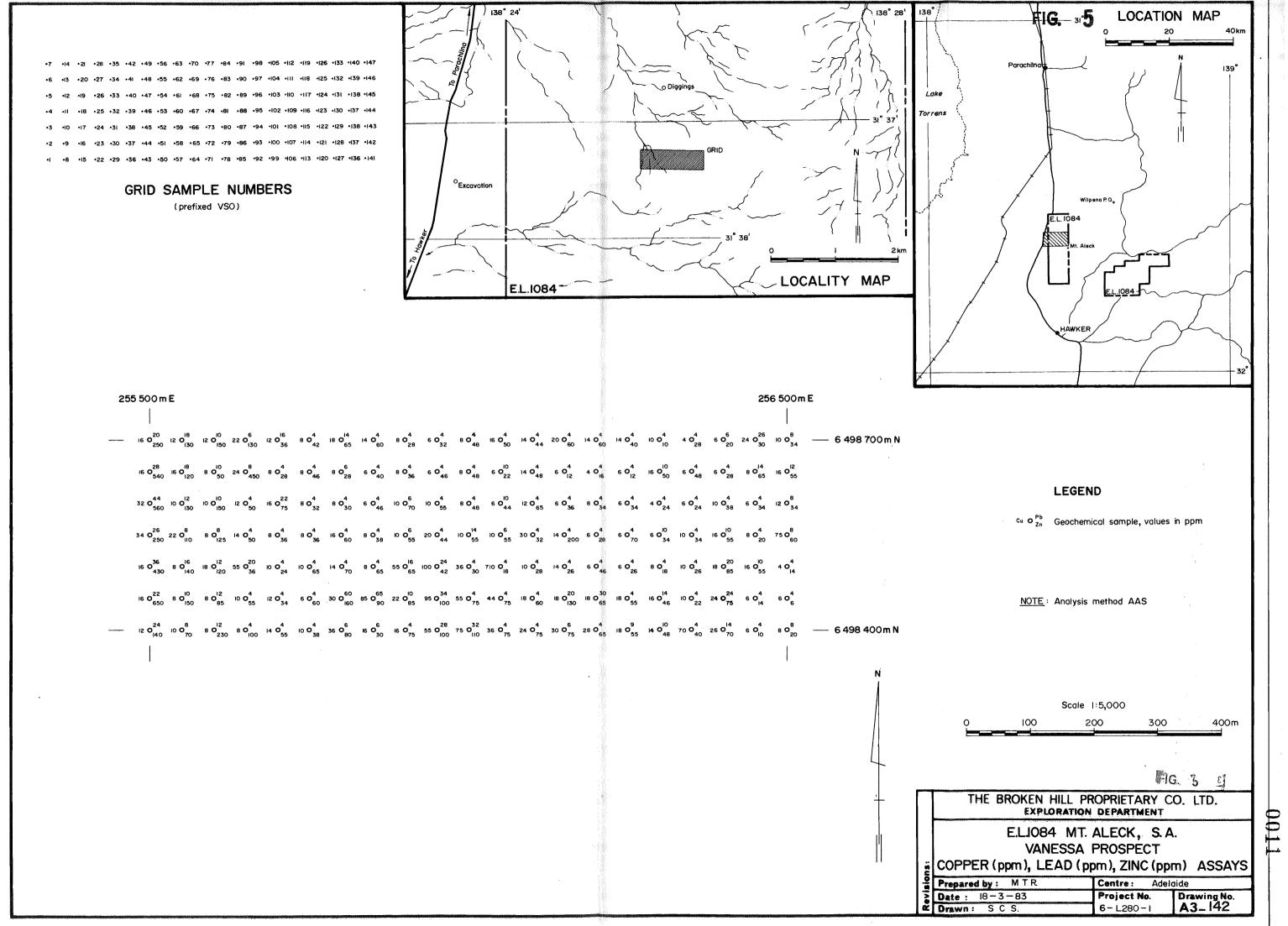
This area is part of the "package deal" recently offered out to potential joint venture partners.

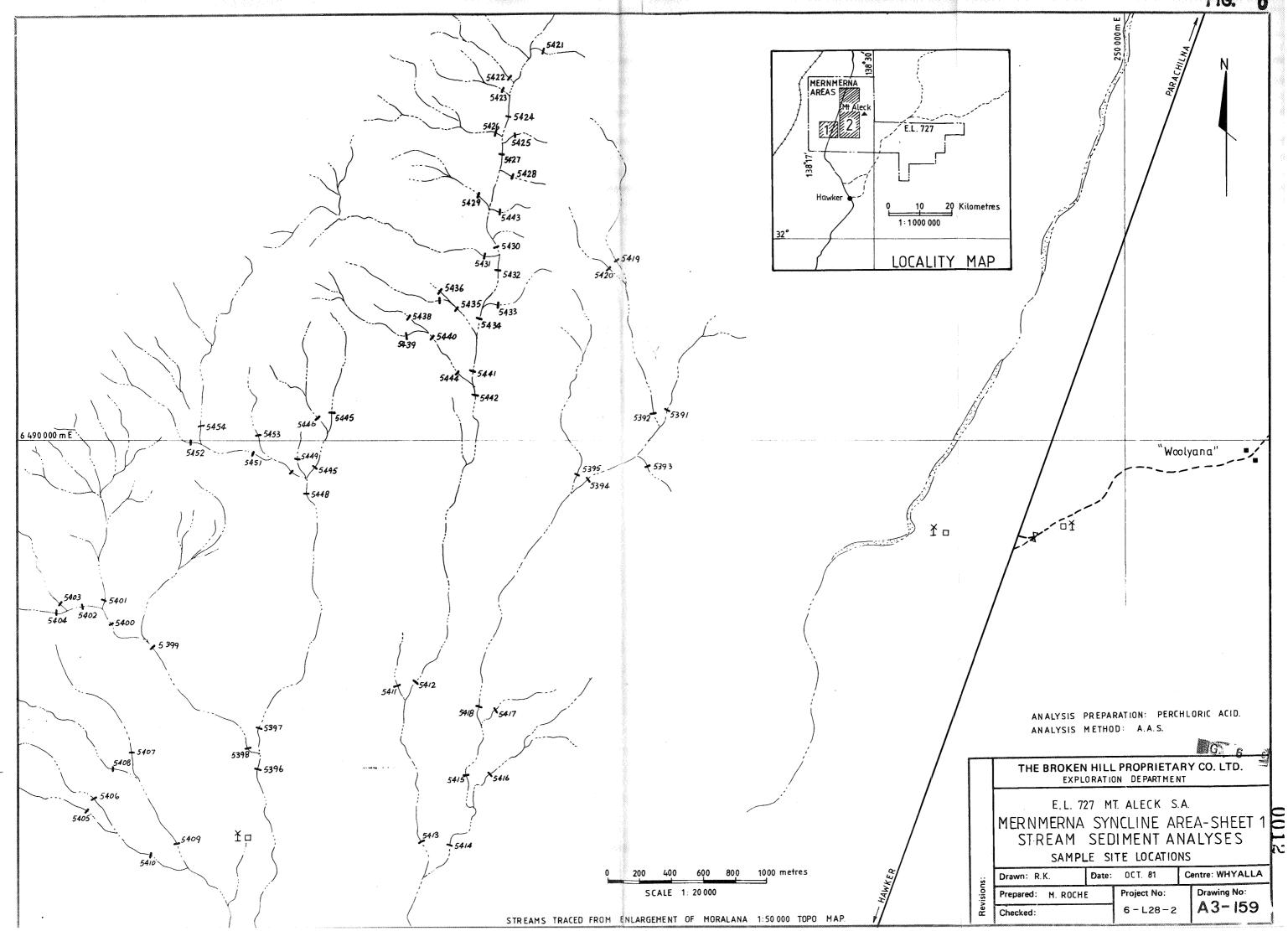
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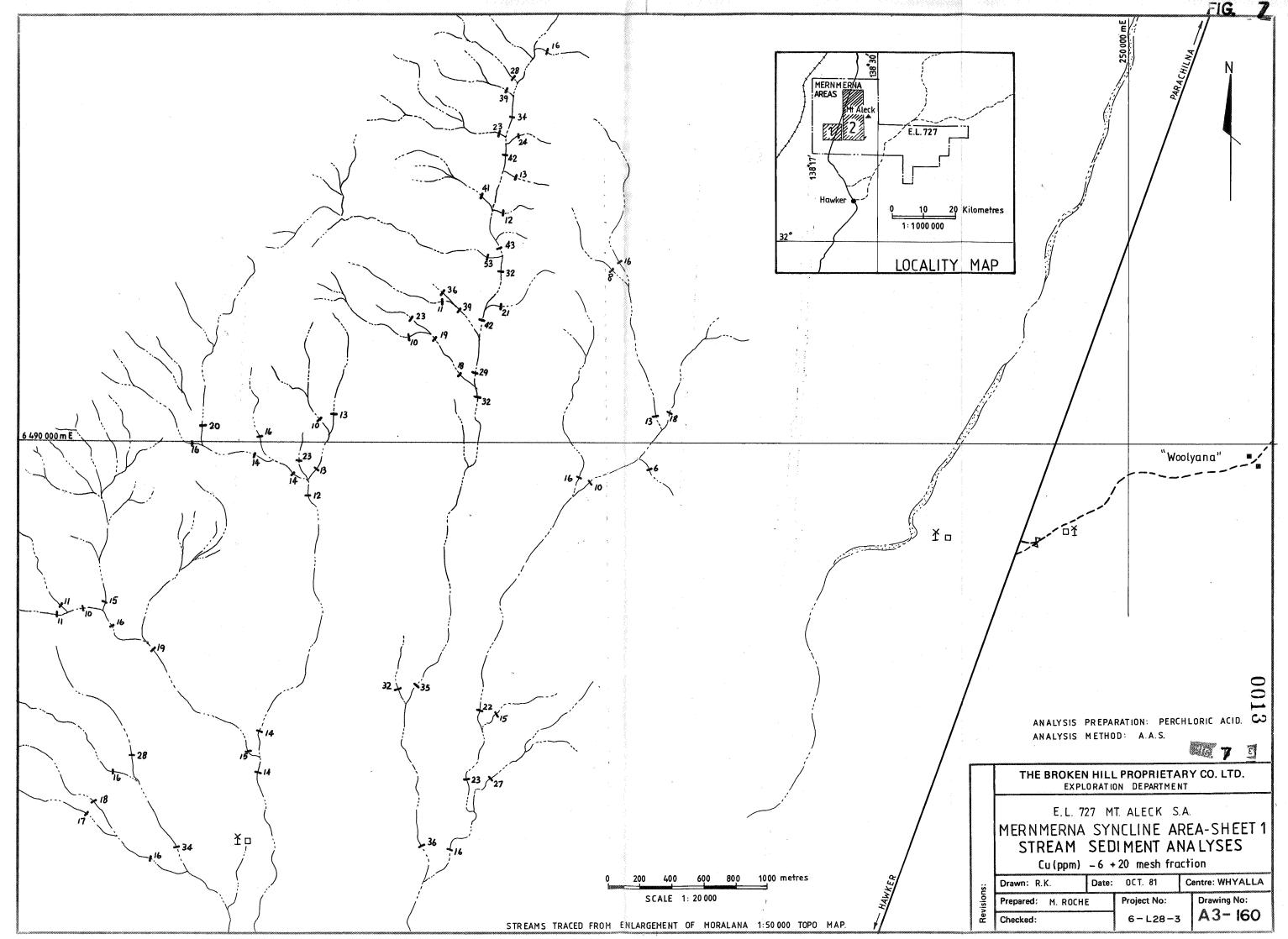


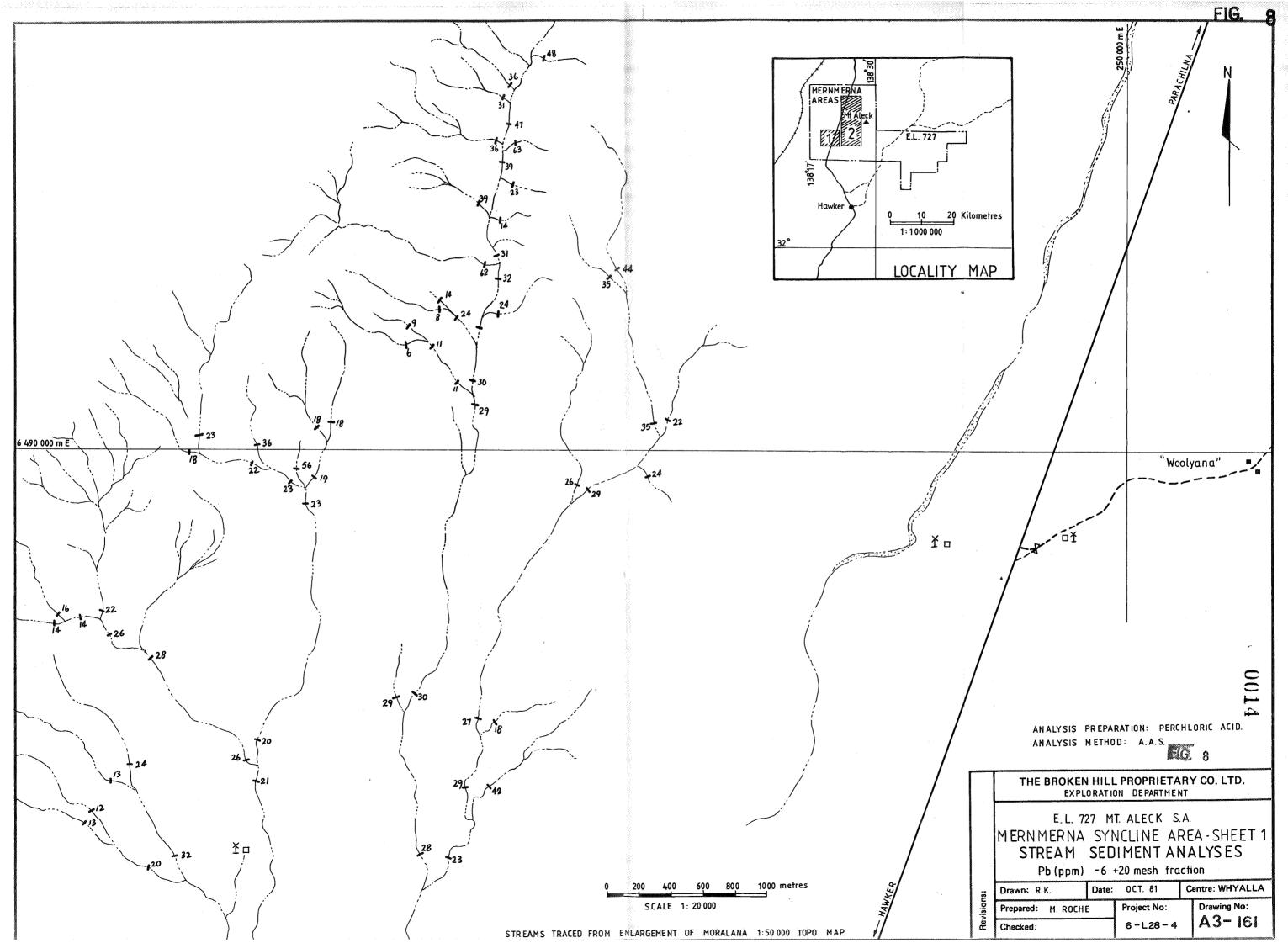


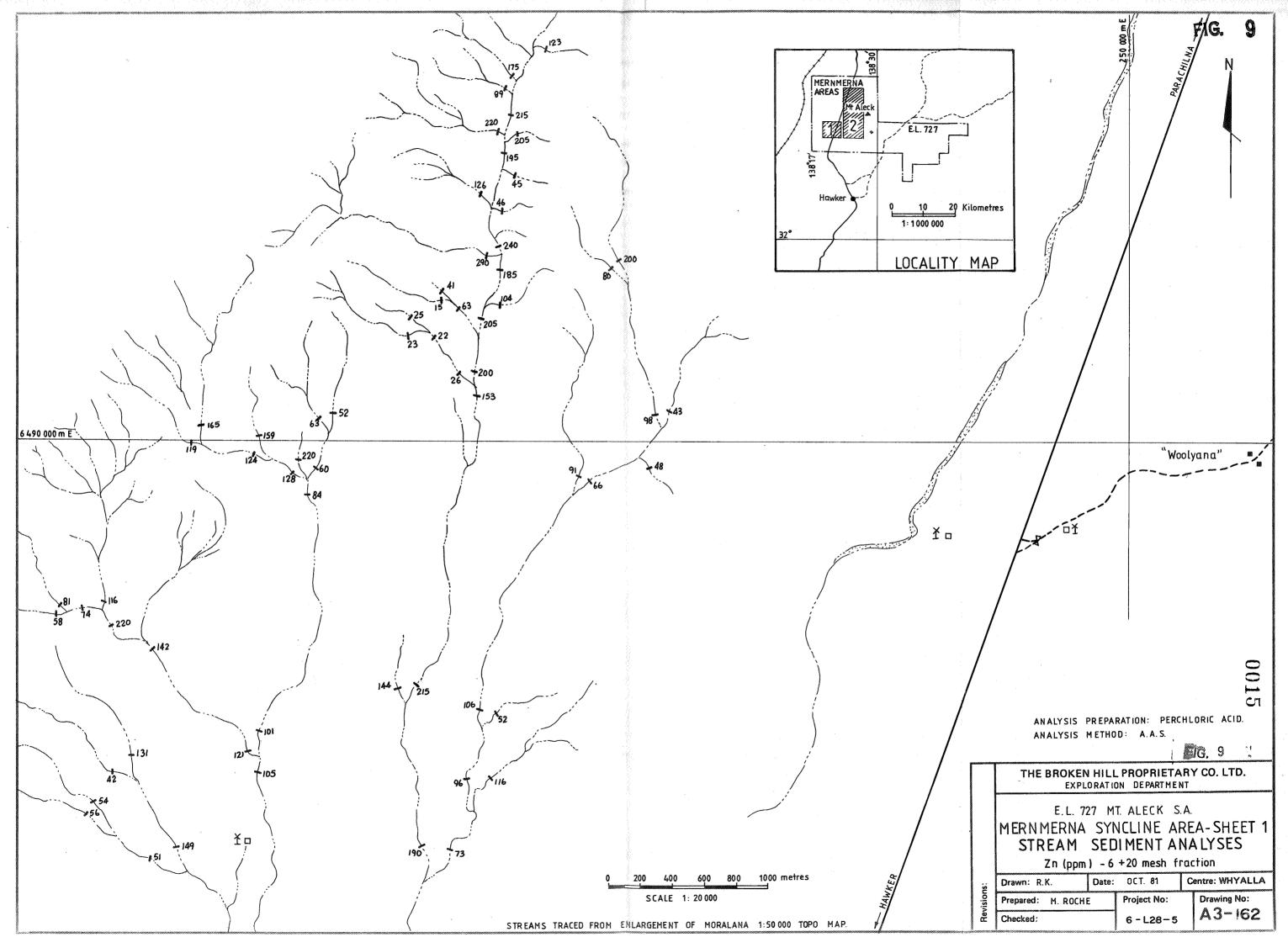


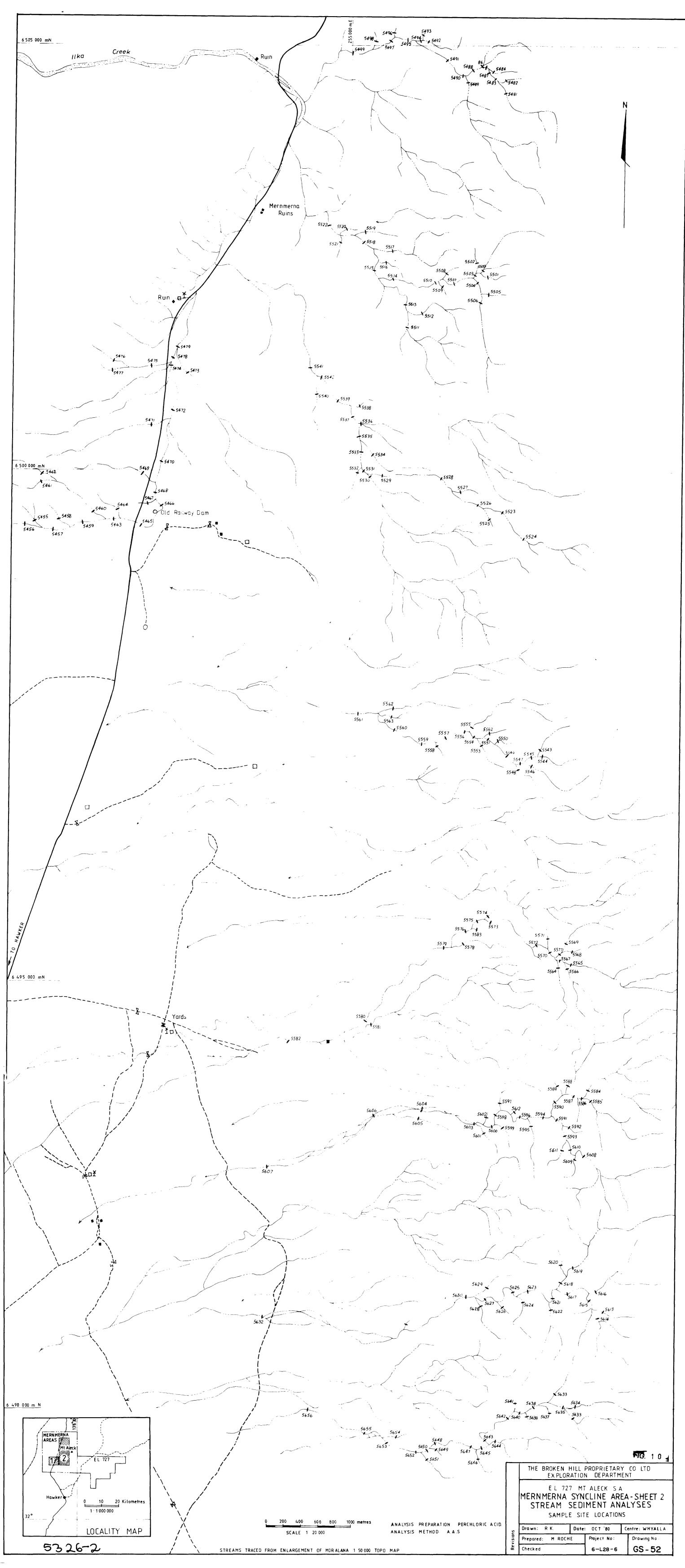


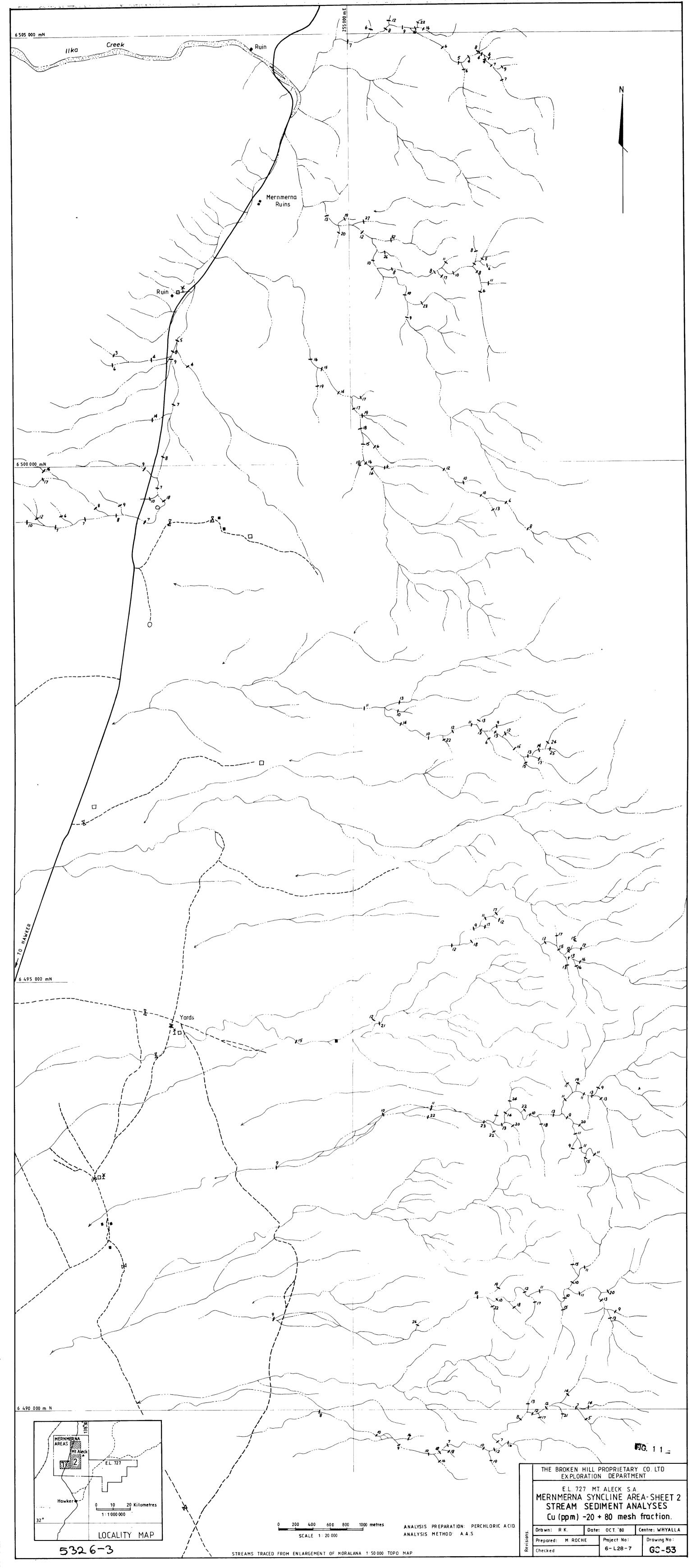


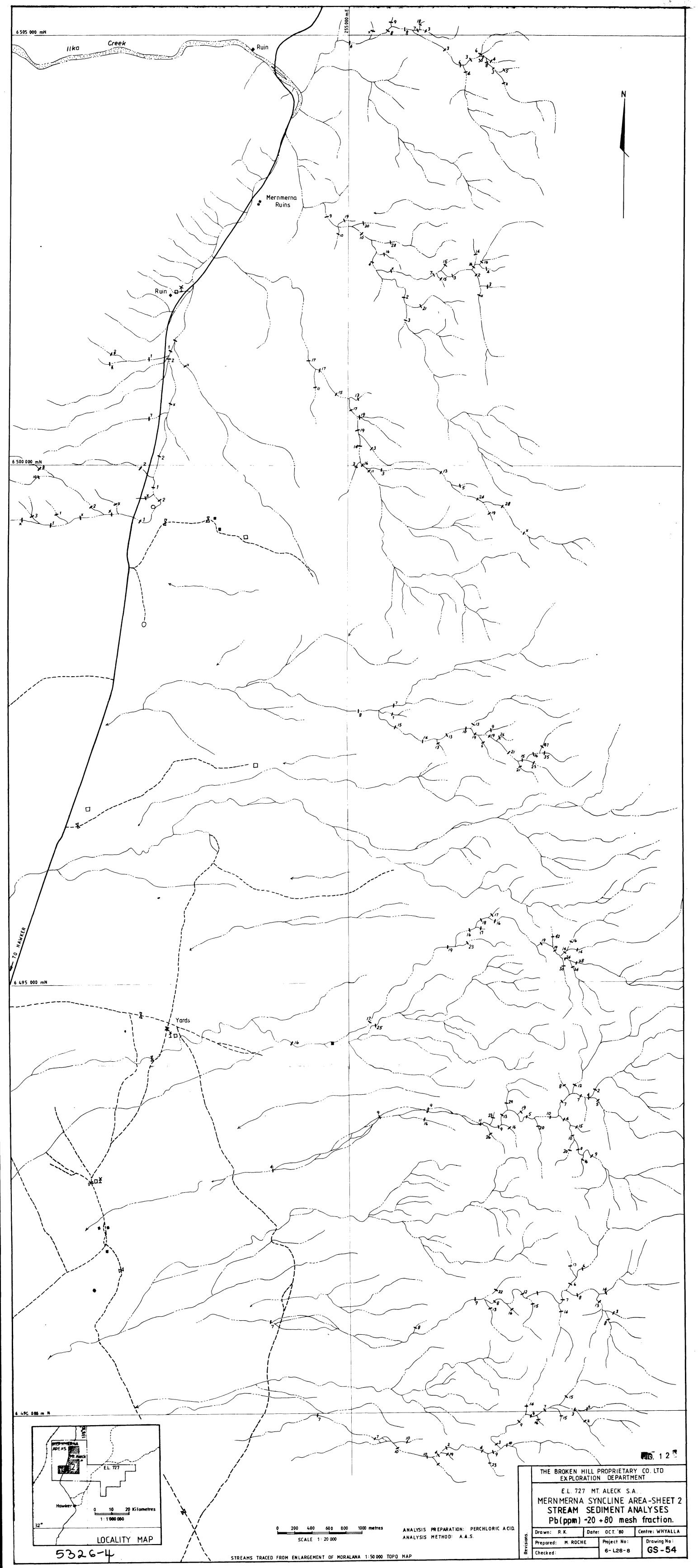


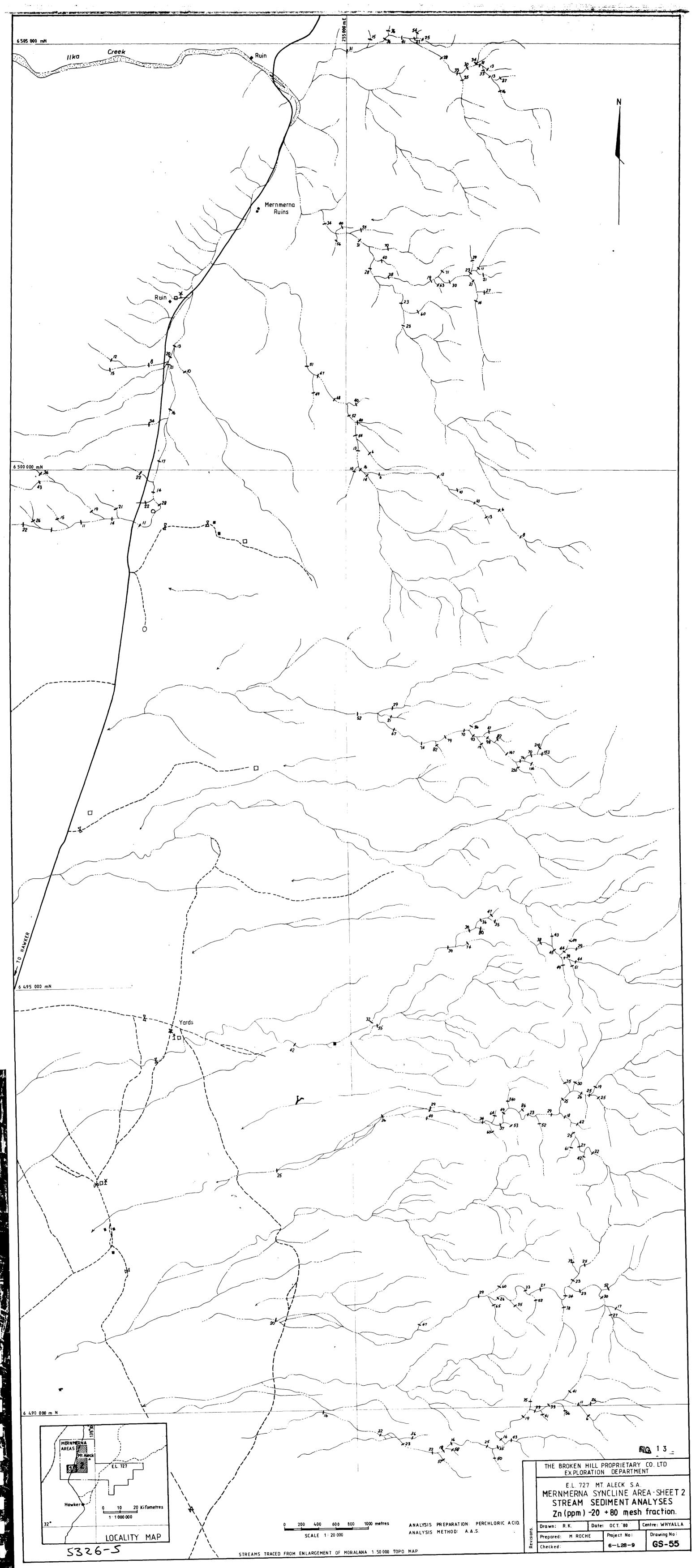












# APPENDIX I

STREAM SEDIMENT SAMPLES

ASSAY RESULTS

**ANALABS** 

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pres conc	Detection			1		1 :		-			
Its in ppm unless otherwi element present; but cor element concentration is element not determined	Standard	FS	4	290	690	91					
Results in ppm unless otherwise specified  T = element present; but concentration too low to messure  X = element concentration is below detection limit  = element not determined	Repest-	SS	5655	10	23	6					<u>                                     </u>
E + X	Repeat-				1			·			
	Method	<u> </u>	<u> </u>	A1/2	<u> </u>	L	l	· 	1		L





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# **ANALYTICAL REPORT**

JOY COME21264

SAMPLE

0/F : 1250 Sleet 001850

Tes	117	te	in	100010
1 0 2	11.1	1	1 1:	1 1 1 1

Cu

ያያ	6 ° 5 7	20	(1)	200
	6858	12	<i>L, L</i> ;	<b>υ</b> ()
8,3	6859	18	6.5	140
SS	6860	20	65	150
SS	6861	24	6.5	100
SS	6862	24	38	80
S S	6863	16	32	70
SS	6864	14	32	8,5
ខន	6865	16	32	4, 4
នន	6866	1.0	26	60
88	6867	2 2	46	6.0
SS	8883	60	0.5	115
SS	6269	50	22	65
88	6870	32	18	48
SS	6871	4 O	16	6.0
2.2	6872	26	14	5.5
នន័	6873	3.0	20	46
SS	6874	28	16	5 5
SS	6875	22	22	5 5
S.S	6876	2.2	20	5 5
2.2	6877	1.9	18	46
3.3	6878	22	16	50
SS	6879	14	18	5.0
SS	0333	12	130	5.0
2.2	6881	12	32	50





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# **ANALYTICAL REPORT**

JOT COM821264

0/P : 1650/500 Sheet 004903

Pesults in ppr

SYMPTE	Cu	PЪ	Zn
FS 6882	1.6	4.2	200
SS 6883	16	3.0	110
SS 6884	12	27	165

Method of Analysis : Cu Pb Zn : AASI

# APPENDIX II

SOIL SAMPLES - ASSAY RESULTS

- 7 -



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# **ANALYTICAL REPORT**

JOB COM830027

0/N : L270/280 Sheet 004968

Results in ppm

SAMPLE Cu Pb Zn

VS	001	12	2 4	140
VŠ	002	16	2 2	650
٧s	003	16	36	430
VS	004	34	26	250
VS	005	32	44	560
vs	006	16	2.8	540
vs	007	16	20	250
V.S	008	10	8	70
vs	009	8	10	150
vs	010	.8	16	140
v s	011	22	8	110
vs	012	10 .	1 2	130
vs	013	16	18	120
VS	014	12	. 18	130
VS	015	8	1 2	230





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O/N: L270/280 Sheet 004968

# Results in ppm

SAI	MPLE	Cu	Pb	Zn
VS	016	8	12	8 5
VS	017	18	12	120
V.S	018	8	8	125
vs	019	10	10	150
vs	020	8	1.0	50
vs	021	1 2	10	150
vs	022	8	<4	100
v.s	023	10	<4	5 5
VS	.024	5 5	20	36
vs	025	14	<4	50
VS	026	12	<4	50
VS	0,27,	2 4	8	450
VS	028	22	· 6	130
vs	029	14	<4	5 5
V,S	030	1 2	<4	3.4
V.S	031	10	<4	2 4
VS	032	8	<4	36
vs	033	16	22	7.5
VS	0.34	8	<4	28
vs	035	1 2	16	36
v s	036	10	4	38
VS	037	6	< 4	6.0
V.S	038	10	<4	6.5
VS	039	8	<4	36
VS	0 4 0	8	<4	32





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0/N : L270/280 Sheet 004968

# Results in ppm

SAMPLE	Cu	Pb	Zn
V.S 041		<4	4 6
VS 042	2 8	<4	4 2
VS 043	3 6	6	80
VS 044	30	60	160
VS 045	14	<4	70
VS 046	16	<4	60
VS 047	8	<4	30
VS 048	8	6	28
VS 049	18	1 4	6 5
VS 050	16	6	30
VS 051	8.5	6 5	90
VS 052	2 8	4	6 5
VS 053	8	<4	<b>3</b> 8
VS 054	6	<4	4 6
VS 055	6	<4	40
vs 056	14	<4	60
VS 057	16	<4	7 5
VS 058	2 2	10	8 5
vs 059	5 5	16	6 5
vs 060	10	6	5 5
VS 061	10	6	70
VS 062		<4	36
vs 063	8	<4	28
vs 064	5.5	28	100
VS 065	95	34	100





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0/N : L270/280 Sheet 004968

Results in ppm	Re:	s u	1t	S	in	ppm
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SAI	MPLE	Cu	Рb	Zn
vs	066	100	2 4	42
٧s	067	20	<4	44
vs	068	10	<4	5.5
VS	069	6	<4	46
vs	070	6	<4	32
VS	071	7 5	32	110
vs	072	5.5	<4	7 5
vs	073	36	<4	30
vs	074	10	14	5 5
vs	075	8	<4	48
vs	076	8	<4	48
vs	077	8	<4	48
vs	078	36	<4	7 5
VS	079	44	<4	7 5
vs	080	710	<4	18.
vs	081	10	. 6	5 5
vs	082	6	10	44
vs.	083	6	10	22
vs	084	16	<4	50
VS	085	24	<4	7.5
vs	086	18	<4	60
vs	087	10	<4	28
vs	880	30	<4	32
V S	089	1 2	<4	65
vs	090	1 4	<4	4.8





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0/N : L270/280 Sheet 004968

Res	u1	t	8	in	ppm
-----	----	---	---	----	-----

SAMP	LE	Cu	Рb	Zn
vs o	91	14	<4	44
vs o	92	30	6	7.5
V.S O	93	18	20	130
vs o	94	14	<4	26
vs o	95	14	<4	200
vs o	96	6	<4	36
vs o	97	6	<4	12
vs o	98	20	<4	60
vs o	99	28	<4	65
vs 1	.00	18	30	6.5
VS 1	.01	6	<4	46
vs 1	02	6	<4	28
vs 1	03	8	<4	34
vs 1	. 0 4	4	<4	16
vs 1	0.5	1 4	<4	60
vs 1	06	18	<4	55
vs 1	.07;	18	<4	55
vs 1	.08	6 .	<4	26
vs 1	.09	6	<4	70
VS 1	10	6	<4	34
vs 1	11	6	<4	12
vs 1	.12 .	14	<4	40
vs 1	13	14	10	48
vs 1	14	16	1,4	46
VS 1	15	8	4	18





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0/N : L270/280 Sheet 004968

Res	u1	ts	in	ppm
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SAN	MPLE	Cu	Рb	Zn
VS	116	6	10	34
vs	117	4	<4	24
vs	118	16	10	50
VS	119	10	<4	10
VS	120	70	<4	40
VS	121	10	<4	22
vs	122	10	<4	26
vs	123	10	<4	34
v s	124	, 6	<4	2 4
vs	125	6	<4	48
vs	126	4	<4	28
vs	127	26	1 4	70
vs	128	24	2 4	7.5
VS	129	18	20	85
vs	130	16	10	5 5
vs	131	10	<4	<b>3</b> 8
VS	132	6	<4	2.8
VS	133	.6	6	20
vs	134	6	<4	10
vs	135	6	<4	14
vs	136	16	10	55
VS	137	8	<4	20
vs	138	6	<4	3 4
vs	139	8	14	6.5
vs	140	24	26	30





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O/N : L270/280 Sheet 004968

Results in ppm

SAI	MPLE	Cu	Рb	Zn
v.s	141	8	8	20
vs	142	6	<4	6
vs	143	4	<4	14
vs	144	75	8	60
vs	145	12	8	34
vs	146	16	12	55
vs	147	10	8	34

Method of Analysis : Cu Pb Zn .: AAS1