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**MICROFILMED**

DEPT. OF MINES  
REF. NO. 10,536/83

ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED

West Coast Mines

**OPEN FILE**

EXPLORATION LICENCE 51/80 - MISERY FLAT

FINAL REPORT ON EXPLORATION ACTIVITY

Geology Dept.  
Report No. 171

I.R. McDonald,  
October, 1983.

TABLE OF CONTENTS

	<u>Page No.</u>
<u>TABLE OF CONTENTS</u>	i
<u>LIST OF APPENDICES</u>	ii
<u>LIST OF PLANS</u>	ii
<u>1. INTRODUCTION</u>	1
<u>2. EXPLORATION PHILOSOPHY</u>	1
<u>3. EXPLORATION UNDERTAKEN</u>	1
<u>4. RESULTS RECEIVED</u>	2
<u>5. CONCLUSIONS</u>	2
<u>6. REFERENCES</u>	3.

002

LIST OF APPENDICES

Appendix 1. Stream Sediment Sample Data Sheets.

Appendix 2. Rock Chip Sample Data Sheets.

LIST OF PLANS

<u>Plan No.</u>	<u>Scale</u>	<u>Title</u>
A1-517-0023	1:50,000	Stream Sediment Sample Locations. Pickands Mather/E.Z.
-0024	1:50,000	Rock Chip Sample Locations.
AO-517-0025	1:10,000	Rock Sample & Stream Sediment Sample Locations.
-0026	1:10,000	" " " " " "
-0028	1:10,000	Geology Outcrop Map.
-0029	1:10,000	" " "
BX-517-0016	1:50,000	Stream Sediment Sample Values - Lead
-0017	1:50,000	" " " " - Zinc
-0018	1:50,000	" " " " - Nickel
-0019	1:50,000	" " " " - Arsenic
-0020	1:50,000	" " " " - Copper
A1-504-Original		Geological Legend (Key to Plans AO-517-0028, -0029)

## 1. INTRODUCTION

Exploration Licence 51/80 was granted to Electrolytic Zinc Company of Australasia Limited on 8th May, 1981. A description of the Licence is contained in Nyvlt (1981). The Licence was relinquished on 28th June, 1983. This is a final report relating to E.Z. activities within E.L. 51/80.

## 2. EXPLORATION PHILOSOPHY

E.L. 51/80 was applied for because the published geological mapping on the area indicated that the rocks exposed were very similar lithologically to the rocks which host the gold mineralisation at Carlin in Nevada U.S.A. These rocks extend into adjacent S.P.L. 806 which is held by Trikon Corporation. A Joint Venture was negotiated with Trikon whereby E.Z. would explore S.P.L. 806 in conjunction with its work on E.L. 51/80.

## 3. EXPLORATION UNDERTAKEN

Work on the area was undertaken in three phases. An initial reconnaissance sampling phase did not produce any anomalies worthy of immediate follow-up. An aeromagnetic survey of Western Tasmania was planned by the Tasmanian Mines Department. It was decided to wait for this information and concurrently to conduct a photogeological survey to provide an overview of the area and allow selection of priority areas for follow-up. This work is reported in Nyvlt (1981) and McDonald (1982).

The magnetic survey and the photo-geological survey suggested that the most potential part of the total area studied was the eastern margin which lies mostly within S.P.L. 806.

Another phase of mapping and drainage sampling was undertaken in S.P.L. 806. This was reported in McDonald (1983). At the same time E.Z. became involved in negotiations with a potential Joint Venture Partner to pursue exploration in E.L. 51/80. These negotiations became pro-

tracted, and in May, 1983 the Mines Department renewed E.L. 51/80 on the condition that EZ successfully negotiated a Joint Venture agreement which would lead to an approved work programme. These negotiations were not successful and EZ subsequently relinquished E.L. 51/80 in June, 1983.

#### 4. RESULTS RECEIVED

The results of the photo-geological survey and the airborne magnetic survey have been previously reported in McDonald (1982). Rock chip sampling results were reported in Nyvlt (1981). Included in this report are plans showing stream sediment and rock chip sample locations, outcrop geology, and stream sediment sample results, which have not previously been reported. Also included as appendices are the sample data sheets for EZ stream sediment and rock chip sample analyses.

#### 5. CONCLUSIONS

The area of E.L. 51/80 was selected primarily because descriptions of the Bell Shale indicated similarities with the host lithologies for Carlin-style gold mineralisation. The work undertaken confirmed the lithological correlation but failed to find any evidence of the other features which characterise a Carlin-style environment. There was no evidence of outcropping or buried granitoid intrusions. There was no evidence of any hydrothermal alteration regime within the area. Geochemical sampling failed to find any anomalies except for the Pickands Mather anomaly zone near the Queenstown Airport, and that zone lies outside the boundary of E.L. 51/80. It was therefore concluded that the area did not warrant further exploration effort.

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6. REFERENCES

McDONALD, I.R., 1982      Exploration Licence 51/80 - Misery Flat  
Progress Report on Activities 8th Nov., 1981 to 8th  
Nov., 1982.      E.Z. Report No. 155.

McDONALD, I.R., 1983      S.P.L. 806 - Report on Exploration Activities for the  
twelve months 10th March, 1982 - 10th March, 1983.  
E.Z. Report No. 163.

NYVLT, J., 1981            Exploration Licence 51/80 - Misery Flat  
Report for six months ended 8th November, 1981.  
E.Z. Report No. 139.

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APPENDIX 1

Stream Sediment Sample Data Sheets



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Electrolytic Zinc Co. of Asia Ltd.

GEOCHEMICAL DATA SHEET

Project: Seaberg, Tab.

PROJECT:

MATERIAL:

Line

FROM:

TO:

LOCALITY:

SAMPLED BY:

DATE

Soil Parameters

Sample Composition

Local Geology

Stream Parameters

SAMPLE NUMBER	CO-ORDINATES		Metal Content (p.p.m. unless specified)				Sample Type	Depth	Colour	Rock Frag	Sand	Clay	Organic	Sulphur	Phosphorus	Nitrogen	Calcium	Magnesium	Sodium	Potassium	pH	Conductivity	Dissolved Solids	Turbidity	Flow	Direction
	N	E	Pb	As	Sn	W																				
A3S01			<20	<5	<10	<10																				
02			<20	<5	<10	25																				
03																										
04																										
05																										
06																										
07																										
08																										
09																										
A3S10			<20	<5	<10																					
11			<20	<5	<10	90																				
12			<20	10	<10	<10																				
13			<20	<5	<10	80																				
14			<20	<5	<10	<10																				
15			<20	<5	<10	40																				
16			<20	<5	<10	<10																				
17			<20	<5	<10	30																				
18			<20	<5	<10	<10																				
19			<20	<5	<10	45																				
A3S20			<20	<5	<10	<10																				
21			<20	<5	<10	65																				
22			<20	<5	<10	<10																				
23			<20	<5	<10	40																				
24			<20	<5	<10	<10																				
A3S25			<20	<5	<10	35																				

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Thames & Zinc Co. of Asia Ltd.  
 Malaya, F.M.S.

GEOCHEMICAL DATA SHEET

Line  
 FROM:  
 TO:

PROJECT: SPL 506 MISERY FLATS IV. MATERIAL: BULK STREAM SEDIMENT.  
 SAMPLED BY: J.A.N.S.B.P. DATE: JUNE '81

Soil Parameters  
 Sample Composition  
 Local Geology  
 Stream Parameters

CO-ORDINATES  
 N E  
 Metal Content (p.p.m. unless specified)  
 Cu Pb Zn Fe% Mn Au Ag Sb

Sample No.	CO-ORDINATES		Metal Content (p.p.m. unless specified)							
	N	E	Cu	Pb	Zn	Fe%	Mn	Au	Ag	Sb
43526	335580	374970	<10	<20	<10	0.38	30	15	<2	<20
43527	335620	374870	<10	<20	<10	0.08	<10	<10	<2	<20
43528	335620	374890	<10	<20	<10	0.19	20	<10	<2	<20
43529	335720	374640	<10	<20	<10	0.02	<10	<10	<2	<20
43530	335780	374540	<10	<20	<10	0.19	15	<10	<2	<20
43531	335780	374460	<10	<20	<10	0.05	<10	20	<2	<20
43532	336170	374000	<10	<20	<10	0.40	30	15	<2	<20
43533	336240	373940	10	<20	10	0.23	10	<10	<2	<20
43534	336250	373920	<10	<20	15	1.10	70	15	<2	<20
43535	336640	373910	<10	<20	<10	0.20	10	<10	<2	<20
43536	334290	377230	15	<20	25	0.85	00	20	<2	<20
43537	333920	376870	<10	<20	<10	0.40	15	<10	<2	<20

Sample No.	Soil Parameters		Sample Composition			Local Geology		Stream Parameters	
	Depth	Colour	Rock Frag	Sand	Clay	Gravel	Bedrock	Order	Width
43526			✓	✓	✓				15
43527			✓	✓					15
43528			✓	✓					08
43529				✓	✓				07
43530					✓	✓			05
43531			✓	✓					10
43532			✓	✓	✓				03
43533			✓	✓					025
43534			✓	✓					20
43535					✓	✓			03
43536			✓	✓					30
43537			✓	✓					02

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

600

Analytic Zinc Co. of Asia Ltd.

GEOCHEMICAL DATA SHEET

Project:   
 Tas.

Locality:

MATERIAL:

SAMPLED BY:

TO:

FROM:

DATE:

Soil Parameters

Sample Composition

Local Geology

Stream Parameters

SAMPLE NO.	CO-ORDINATES		Metal Content (p.p.m. unless specified)				Sample Type	Depth	Colour	Moisture	Sand	Clay	Organic Matter	pH	Conductivity	Temperature	Flow	Velocity	Depth	Width	Direction
	N	E	Pb	As	Sn	W															
43526			<20	<5	<10	<10															
27			<20	<5	<10	20															
28			<20	<5	<10	<10															
29			<20	<5	<10	60															
30			<20	<5	<10	<10															
31			<20	<5	<10	30															
32			<20	<5	<10	<10															
33			<20	<5	<10	50															
34			<20	<5	<10	<10															
35			<20	<5	<10	30															
36			<20	<5	<10	<10															
43537			<20	<5	<10	70															

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APPENDIX 2

Rock Chip Sample Data Sheets

PROJECT		CO-ORDINATES				SAMPLED BY				MATERIAL				BOOK #		
SPL 806 - MERRY FLATS J.V.		LINE: A+B TRAMWAY				J.A.N. S.B.P				ROCK				SHEET #		
1/2		FROM: Q TOWN				DATE: 25 JUNE '81				DEPTH: SURFACE				JOB #		
SAMPLE NUMBER	CO-ORDINATES		Interval +/-	TO:	STRAHLIN				Fe	Mn	Pb	Au	As	Sn	DESCRIPTION	
	N/W	E/W			Cu	Pb	Zn	Ag								
46335	233770	376430			10	110	320	05	7150	855		X	X	X	2	cut soil
46336	333930	376220			50	105	300	X	47%	400		X	X	11	X	soil (ke soil)
46337	333850	376120			40	50	150	X	30%	40		X	X	19	X	soil
46338	333870	376040			35	65	45	X	25%	80		X	COOR	17	X	cut soil
46339	333630	375760			30	35	95	X	34%	70		X	X	17	X	soil
46340	333570	375550			25	35	145	X	39%	80		X	X	6	X	soil
46341	333400	375470			20	40	145	X	36%	440		X	X	8	X	cut soil
46342	333290	375360			30	45	170	X	33%	45		X	X	7	X	soil
46343	332780	375430			40	25	105	X	37%	40		X	COOR	4	X	soil
46344	332510	375470			10	10	15	X	6200	85		X	COOR	5	X	soil
46345	332320	375520			45	35	20	X	43%	590		X	X	99	X	cut soil
46346	332260	375550			45	25	60	X	35%	160		X	X	45	X	cut soil
46347	332170	375580			10	10	105	X	39%	95		X	X	11	X	soil
46348	332100	375590			5	15	45	X	24%	135		X	X	5	X	soil
46349	332570	374500			15	20	75	05	235%	70		X	X	10	X	soil
46350	332530	374780			15	5	50	05	18%	100		X	X	4	X	soil
46351	332430	375030			10	20	40	X	163%	110		X	COOR	23	X	soil
46352	332050	375690			105	30	30	05	130%	15		X	X	15	X	soil

013

PROJECT				CO-ORDINATES				SAMPLED BY				MATERIAL				BLOCK #			
SPL. 806 - MISERY FLAT J.V.				LINE #				DATE				DEPTH				JOB #			
2/2				FROM:				TO:											
SAMPLE NUMBER	CO-ORDINATES		Interval +/-	TO:												DISPOSITION			
	N/S	E/W		Sb.	W.														
46335					x		x												
46336					x		x												
46337					x		x												
46338					x		x												
46339					x		x												
46340					x		x												
46341					x		x												
46342					x		x												
46343					x		x												
46344					x		x												
46345					x		x												
46346					x		x												
46347					x		x												
46348					x		x												
46349					x		x												
46350					x		x												
46351					x		x												
46352					x		x												

500014

PROJECT		CO-ORDINATES				SAMPLED BY			MATERIAL			BOOK NO		
SPL. 906 - MISERY FLAT J.V.		LINE: APT TRAMWAY / ...				J.A.N. S.B.P.			ROCK			SHEET NO		
1/2		FROM: Q-TOWN				DATE			DEPTH			JOB NO		
		TO: ST RAHAN.				25 JUNE '81			SURFACE + QUARRY					
SAMPLE NUMBER	CO-ORDINATES		Interval	C <sub>1</sub>	Pb	Zn	Ag	Fe	Mn	Bi	Au	As	Sn	DESCRIPTION
	N/B	E/W												
46330	335620	377870		5	30	45		4850	15		X		X	4
46331	334920	377200		30	115	1800		4750	310		X		X	2
46332	334650	377140		5	70	105		3350	585		X		X	13
46333	334620	377340		10	1250	9350	1.5	5500	325		X		X	4
46334	334620	377340		255	308	2458	400	9700	915		X		X	X (Asst)

015

3/2 SPL 806- MISERY FLAT J.V.	CO-ORDINATES				SAMPLED BY				MATERIAL				BOCKY N°	
	LINE :												SHEET N°	
	FROM :				DATE				DEPTH				JOB N°	

SAMPLE NUMBER	CO-ORDINATES		Interval	TO :		Sb.	W.													DESCRIPTION	
	N/S	E/W		-/-	Sb.																W.
46330						X		X													
46331						X		X													
46332						X		X													
46333						X		X													
46334						X		X													

500016

016

TABLE NO.		CO-ORDINATES		SAMPLED BY		MATERIAL		BOOK NO.					
12		SPL 806 - MISERY FLATS J.V.		LINE: TRAVERSE (5)		J.A.N.: S.B.P.		Rock					
		FROM: L'YELL H'WAY		DATE: 24-JUNE '81		DEPTH: SURFACE		SHEET NO.					
		TO:						JOB NO.					
SAMPLE NUMBER	CO-ORDINATES		Cu	Pb	Zn	Ag	Fe	Mn	Bi	Au	As	Sn	DESCRIPTION
	N	E											
46317	335370	375340	5	X	30	X	14%	15	X	0002			X 1st soil
46318	335490	375210	5	X	5	X	9050	25	X	X			X 1st soil
46319	335520	375100	5	5	15	X	5450	30	X	X			2 1st soil
46320	335550	375050	5	5	40	X	146%	45	X	X			2 1st soil
46321	335690	374900	5	X	5	X	3350	25	X	X	X		1 1st soil
46322	336060	374140	10	20	30	X	6150	10	X	0025		4	2 1st soil
46323	336100	374110	5	5	5	X	2150	5	X	0002		X	X 1st soil
46324	336110	374070	5	25	165	X	78%	180	X	X		95	X 1st soil
46325	336130	374050	5	10	10	X	6900	10	X	X			X 1st soil
46326	336170	373960	5	15	60	X	23%	10	X	X			X 1st soil
46327	336240	373920	5	10	55	X	25%	105	X	X		X	4 1st soil
46328	336420	373870	5	10	65	X	25%	65	X	X		6	X 1st soil
46329	336620	373960	5	5	15	X	3250	50	X	X		4	2 1st soil

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PROJECT: SAL806 MISERY FLATS V.				CO-ORDINATES				SAMPLED BY				MATERIAL				BLOCK N°			
				LINE:												SHEET N°			
2/2				FROM:				DATE				DEPTH				JOB N°			
				TO:															
SAMPLE NUMBER		CO-ORDINATES		INFEED		TO:										DESCRIPTION			
		N/S		E/W		+/-		Sb.		W.									
46317								X		X									
46318								X		X									
46319								X		X									
46320								X		X									
46321								X		X									
46322								X		X									
46323								X		X									
46324								X		X									
46325								X		X									
46326								X		X									
46327								X		X									
46328								X		X									
46329								X		X									

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PROJECT		CO-ORDINATES		SAMPLED BY		MATERIAL		ROCK #					
SPL 806 - MISERY FLATS JV.		LINE: TRAVERSE (D)		T.A.N.S.B.P.		Rock		SHEET #					
		FROM: EYELL H'WAY.		DATE: 23-JUNE '81		DEPTH: SURFACE		JOB #					
SAMPLE NUMBER		CO-ORDINATES		TO:									
N/	E/	Cu	Pb	Zn	Ag	Fe	Mn	Bi	Au	As	Sn	DESCRIPTION	
46309	337210	375	330	X	5	10	X	1000	5	X	7	4	shale
46310	337270	375	420	X	10	5	X	1200	5	X	4	X	
46311	337320	375	530	S	X	5	X	2000	20	5	0.003	4	X shale
46312	337390	375	600	X	X	10	X	1450	10	X	0.017	6	X shale
46313	337410	375	640	X	5	5	X	2250	15	5	0.008	2	X shale
46314	337480	375	710	40	20	105	X	6050	15	X	X	8	10 shale
46315	337510	375	770	5	10	55	X	1.5%	30	X	X	7	X shale
46316	337540	375	820	10	15	55	X	20%	35	10	X	3	X shale

TARGET			CO-ORDINATES				SAMPLED BY			MATERIAL			SOOT N°	
SPL 806			LINE: TRAVERSE (3)				T.A.N.:S.B.P.			ROCK			SHEET N°	
V2 MISERY FLATS JV			FROM: LYELL H'WAY				DATE: 22 JUNE '81			DEPTH: SURFACE			JOB N°	
SAMPLE NUMBER	CO-ORDINATES		Interval	TO:				Fe	Mn	Bi	An	As	Sn	DESCRIPTION
	N	E		-	Cu	Pb	Zn							
46196	337210	375280		X	X	X	X	1350	10	X	X	2	X	Thin (1st)
46197	337260	375040		X	5	5	X	152	15	X	X	7	X	Thin (1st)
46198	337280	375000		X	5	X	X	6600	10	X	X	3	X	Thin (1st)
46199	337340	374840		15	20	110	X	3400	15	X	X	4	X	Thin (1st)
46200	337390	374660		25	35	5	0.5	3800	10	X	X	X	X	Thin (1st)
46301	337400	374600		20	20	15	0.5	7250	10	10	X	12	X	Thin (1st)
46302	337380	374540		X	X	10	0.5	3700	10	X	X	X	10	X
46303	337400	374420		5	15	10	0.5	6550	10	X	X	2	X	X
46304	337400	374300		X	X	25	X	1412	35	X	X	X	X	X
46305	337340	374160		X	5	45	0.5	14852	75	5	X	X	X	X
46306	337330	374070		15	20	35	0.5	7700	30	X	X	9	X	X
46307	337410	374000		15	25	50	100	1662	110	X	X	8	X	X
46308	337460	373920		15	30	40	0.5	1492	40	10	X	5	X	X

2/2 SPL 806 - MISERY FLAT J.V.	CO-ORDINATES LINE: FROM:	SAMPLED BY DATE	MATERIAL DEPTH	SOCK N° SHEET N° JOB N°
-----------------------------------	--------------------------------	--------------------	-------------------	-------------------------------

SAMPLE NUMBER	CO-ORDINATES		INTECH +/-	TO:		DESCRIPTION
	N/S	E/W		Sb	W.	
46196				X	X	
46197				5	X	
46198				X	X	
46199				X	X	
46200				X	X	
46301				X	X	
46302				X	X	
46303				X	X	
46304				X	X	
46305				X	X	
46306				X	X	
46307				X	X	
46308				X	X	

TABLE 1		CO-ORDINATES				SAMPLED BY			MATERIAL			ROCK N°			
SPL 806-MISERY FLAT J.V.		LINE: TRAVERSE HELL H'WAY				J.A.N. S.B.P.			Rock			SHEET N°			
1/2		FROM: Q TOWN				DATE: JUNE '81			DEPTH: SURFACE			JOB N°			
SAMPLE NUMBER	CO-ORDINATES		Interval	TO: STRAHN.	Cu	Pb	Zn	Ag	Fe	Mn	Bi	Au	As	Sn	DESCRIPTION
	N/S	E/W													
46183	331600	371660			5	X	15	X	1.1%	20	X	X	4	X	X
46184	331590	371340			10	25	20	X	2.25%	20	X	0.008	8	X	X
46185	331400	371390			X	X	20	X	6500	20	5	X	5	X	X
46186	331430	371290			5	45	10	1.0	5.350	15	5	X	8	X	X
46187	331520	371210			15	15	10	0.5	9.700	10	5	X	6	X	X
46188	331580	371120			20	10	10	0.5	1.05%	10	5	X	X	X	X
46189	331590	370970			10	25	25	0.5	1.05%	25	10	X	11	X	X
46190	331670	370800			10	20	30	1.5	1.5%	50	5	X	6	X	X
46191	331710	370660			15	10	15	1.0	2.05%	20	X	X	10	X	X
46192	331670	370580			10	10	10	X	1.04%	20	5	X	10	X	X
46193	331750	370400			X	5	X	1.0	1.550	15	X	X	1	X	X
46194	331850	370210			X	20	5	X	1.900	10	10	0.008	1	X	X
46195	331960	370060			X	10	X	X	1.400	5	X	X	2	X	X

022

SEAL 801 - MISERY FLAT IV.				CO-ORDINATES		SAMPLED BY		MATERIAL		BLOCK #	
				ELEVATION						SHEET #	
				FROM:		DATE		DEPTH		JOB #	
SAMPLE NUMBER	CO-ORDINATES		Interval	TO:							
	N/S	E/W		-/-	Sp	W					DESCRIPTION
461183					X		X				
461184					X		X				
461185					X		X				
461186					X		X				
461187					X		X				
461188					X		X				
461189					X		X				
461190					X		X				
461191					X		X				
461192					X		X				
461193					3		X				
461194					5		X				
461195					X		X				

500023

023

IN P.P.M. UNLESS SPECIFIED.

PROJECT		CO-ORDINATES		SAMPLED BY		MATERIAL		BOOK #					
SPL 806 - MISERY FLAT J.V.		LINE: TRAVERSE LANE H'WAY		J.A.N.'S.B.P.		ROCK		SHEET #					
1/2		FROM: D'TOWN		DATE: JUNE '81		DEPTH: SURFACE		JOB #					
SAMPLE NUMBER	CO-ORDINATES		INCREAS +/-	TO: STRAHAN				JUNE '81					DESCRIPTION
	N/D	E/W		Cu	Pb	Zn	Ag	Fe	Mn	Bi	Au	As	
46158	331740	374130		5	70	5	X	4.9%	15	X	X	130	X (sh)
46159	331850	373980		20	65	10	X	10.5%	25	X	X	56	X (sh)
46160	332080	373800		30	30	40	X	8.5%	10	X	X	120	X (sh)
46161	332420	373500		45	265	45	X	7.0%	20	X	0008	59	X (sh)
46162	332570	373460		15	50	30	X	2.1%	15	10	X	11	X (sh)
46163	332600	373260		25	15	35	X	2.3%	20	X	X	9	X (sh)
46164	332640	373060		15	10	20	X	2.5%	10	X	X	7	X (sh)
46165	332720	373040		10	35	15	X	6.50	10	X	X	14	X (sh)
46166	332740	373010		5	25	60	X	2.75%	55	X	X	14	X (sh)
46167	332740	372970		20	X	25	X	2.5%	25	X	X	12	2 (sh)
46168	332730	372930		5	X	15	X	9.30	55	10	X	8	X (sh)
46169	332730	372850		10	50	60	X	2.3%	85	X	X	9	X (sh)
46170	332700	372790		15	15	25	X	2.35%	26	10	X	11	X (sh)
46171	332570	372760		10	150	55	X	1.9%	55	X	X	12	X (sh)
46172	332550	372750		20	5	10	X	5.00	40	5	X	6	X (sh)
46173	332530	372700		5	X	30	X	1.6%	100	X	X	2	X (sh)
46174	332500	372580		10	X	30	X	6.050	45	X	0008	8	X (sh)
46175	332450	372450		10	40	35	X	1.6%	80	X	X	7	2 (sh)
46176	332300	372380		15	70	20	X	4.650	20	X	0008	9	2 (sh)
46177	332190	372230		25	15	20	X	1.85%	15	X	0008	14	X (sh)
46178	332150	372240		15	50	55	X	1.42%	45	10	X	7	X (sh)
46179	332040	372020		25	25	50	X	3.75%	30	X	X	12	X (sh)
46180	331820	372010		10	10	50	X	2.25%	90	X	X	9	X (sh)
46181	331700	372000		35	15	35	X	2.7%	50	X	0025	4	X (sh)
46182	331760	371630		20	35	40	X	1.65%	50	X	X	8	X (sh)

500024

SPZ 806-MBERY FLATS J.V.				CO-ORDINATES		SAMPLED BY		MATERIAL		BOOK #											
7/2				LINE #		DATE		DEPTH		SHEET #											
FROM:				TO:						JOB #											
SAMPLE NUMBER	CO-ORDINATES		Incr. +/-	Sb.	W.	DESCRIPTION															
	N/S	E/W																			
46158				6	X																
46159					X																
46160					X																
46161					X																
46162					X																
46163					X																
46164					X																
46165					X																
46166					X																
46167					X																
46168					X																
46169					X																
46170					X																
46171					X																
46172					X																
46173					X																
46174					X																
46175					X																
46176					X																
46177					X																
46178					X																
46179					X																
46180					X																
46181					X																
46182					X																

IN P.P.M. UNLESS SPECIFIED

SAMPLER		CO-ORDINATES				SAMPLED BY				MATERIAL			SOCK #		
SPL 306 - MISERY FLATS JV		LINE: TRANSVERSE-LYLL HWAY				JAN'S.B.P.				ROCK			SHEET #		
1/2		FROM: TOWN				DATE: JUNE '81				DEPTH			JOB #		
SAMPLE NUMBER	CO-ORDINATES		Interval +/-	TO: STRAHAN				SURFACE			DESCRIPTION				
	N/S	E/W		Cu	Pb	Zn	Ag	Fe	Mn	Ba	Au	As	Sn		
46133	334070	375110		X	70	20		X	470%	5	X	X	34	X	Chalk (Fossil)
46134	333940	375050			15	35	10	X	5500	10	10	X	77	X	Chalk (Fossil)
46135	333870	375060		X	10	10		X	2350	10	X	X	12	X	Chalk (Fossil)
46136	333800	375010		X	100	10		X	2050	10	X	X	9	X	Chalk (Fossil)
46137	333650	374860			15	170	15	X	5650	30	X	X	8	X	Chalk (Fossil)
46138	3330470	374750		X	25	20		X	15%	5	X	X	10	X	Chalk (Fossil)
46139	333300	374720			5	350	20	X	18%	10	5	X	X	X	Chalk (Fossil)
46140	333200	374730			10	25	10	X	5000	25	5	X	5	2	Chalk (Fossil)
46141	333070	374810			5	15	10	X	4700	10	X	X	4	2	Chalk (Fossil)
46142	332600	375020		X	15	10		X	2200	5	X	X	2	X	Chalk (Fossil)
46143	332310	375080			10	15	5	X	3950	25	5	X	X	X	Chalk (Fossil)
46144	332220	375090			5	15	10	X	12%	5	10	0.00%	3	X	Chalk (Fossil)
46145	332110	375010			5	5	5	X	2300	10	X	0.00%	X	X	Chalk (Fossil)
46146	331970	374990			20	35	75	X	27%	45	X	0.01%	17	X	Chalk (Fossil)
46147	331920	374970			5	15	25	X	115%	30	5	0.00%	9	X	Chalk (Fossil)
46148	331860	374930			5	15	15	X	5200	25	10	X	7	X	Chalk (Fossil)
46149	331860	374810			5	10	10	X	6300	15	X	X	6	X	Chalk (Fossil)
46150	331830	374820		X	X	5	0.5	X	4050	20	X	X	4	X	Chalk (Fossil)
46151	331730	374740			955	X	105	X	455%	780	X	0.01%	5	X	Chalk (Fossil)
46152	331710	374680			25	X	10	X	8500	25	X	0.02%	9	X	Chalk (Fossil)
46153	331700	374540		X	5	20		X	4750	20	X	X	8	X	Chalk (Fossil)
46154	331900	374480			10	5	10	X	1.5%	15	X	X	34	X	Chalk (Fossil)
46155	331780	374430			20	5	15	X	295%	10	X	X	17	X	Chalk (Fossil)
46156	331740	374280			10	5	10	X	2.3%	15	X	X	19	X	Chalk (Fossil)
46157	331700	374180			10	25	10	X	23%	20	X	X	25	4	Chalk (Fossil)

026

SP. 806 - MISERY FLAT J.V.

CO-ORDINATES  
LINE:  
FROM:  
TO:

SAMPLED BY  
DATE

MATERIAL  
DEPTH

BOOK #  
SHEET #  
JOB #

3/2

SAMPLE NUMBER	CO-ORDINATES		INTERVAL +/-	TO:		DESCRIPTION
	N/S	E/W		Sb.	W.	
46133				X	X	
46134				14	X	
46135				X	X	
46136				X	X	
46137				X	X	
46138				X	X	
46139				X	X	
46140				X	X	
46141				X	X	
46142				X	X	
46143				X	X	
46144				X	X	
46145				X	X	
46146				X	X	
46147				X	X	
46148				X	X	
46149				X	X	
46150				X	X	
46151				X	15	
46152				X	X	
46153				X	X	
46154				X	X	
46155				X	X	
46156				X	X	
46157				X	X	

500027

IN P.P.M UNLESS SPECIFIED

PARCEL I		SPL 806 - MISERY FLAT J.V.		CO-ORDINATES				SAMPLED BY				MATERIAL			BLOCK #	
1/2				LINE: TRAVERSE - LYELL 11' WAY				J.A.N. S.B.P.				Rock			SHEET #	
				FROM: C.TOWN - STRAHAN				DATE: JUNE 81				DEPTH: SURFACE			JOB #	
SAMPLE NUMBER	CO-ORDINATES		Interval +/-	TO:										DESCRIPTION		
	N/S	E/W		Cu	Pb	Zn	Ag	Fe	Mn	Bi	Au	AS	Sn			
46108	337960	375200			10	15	20	X	2700	10		X	X	X	X	cellulose
46109	337870	375325			5	35	15	X	1950	25		5	V	X	X	cellulose
46110	337780	375370			5	35	15	X	2850	10		X	V	X	X	cellulose
46111	337650	375400			X	145	810	X	2500	20	10	C032	V	X	X	metal
46112	337610	375400			X	20	35	X	3300	15		X	V	4	X	cellulose (red)
46113	337520	375420			10	30	10	X	3600	20		X	V	Y	X	metal
46114	337140	375420			X	10	10	X	1650	5	10	V	V	X	X	metal (off)
46115	337090	375350				905	25	130	X	688	3900	10	C032	32	X	metal
46116	336940	375360				65	10	15	X	3950	40	5	C016	X	X	metal
46117	336880	375390				15	20	10	X	238	20	10	C016	40	X	metal (red)
46118	336380	375400			X	60	265	X	2050	15		X	C026	1	X	metal
46119	336350	375340			X	10	20	X	1800	5	5	C008	X	X	X	metal (red)
46120	336300	375350				5	15	15	X	95%	10	X	C008	34	X	metal (red)
46121	336290	375350				5	15	10	X	4600	20	5	C008	3	X	metal (red)
46122	336260	375350				5	10	10	X	462	10	X	C016	37	X	metal (red)
46123	336200	375360			X	10	20	X	1333	20		X	X	9	X	metal (red)
46124	336110	375360			10	20	30	X	121%	10	X	X	X	220	X	metal (red)
46125	336030	375430				10	70	45	X	148	55	X	X	12	X	metal
46126	335760	375480				15	35	20	X	51%	15	15	X	50	X	metal (red)
46127	335220	375530				10	35	55	X	29%	120	X	X	3	X	metal
46128	335000	375530				X	100	30	X	72%	30	5	X	11	X	metal (red)
46129	334550	375370				10	55	20	X	5000	25	X	X	7	X	metal (red)
46130	334440	375290				80	45	20	X	21%	5	10	X	60	X	metal (red)
46131	334230	375200				10	40	20	X	5250	20	X	V	2	X	metal
46132	334130	375160				X	15	10	X	3900	5	5	V	X	2	metal (red)

028

TABLE 1				CO-ORDINATES				SAMPLED BY				MATERIAL				BOOK NO			
SAZ 806. MBERYFRAT J.V.				LINE:												SHEET NO			
2/2				FROM:				DATE				DEPTH				JOB NO			
SAMPLE NUMBER	CO-ORDINATES		Invert	TO:												DESCRIPTION			
	N/S	E/W		Sb	W														
46108				X		10													
46109				X		X													
46110				X		X													
46111				X		X													
46112				X		X													
46113				X		X													
46114				X		X													
46115				X		X													
46116				X		X													
46117				4		X													
46118				X		X													
46119				X		X													
46120				6		X													
46121				X		X													
46122				X		X													
46123				X		X													
46124				X		X													
46125				X		X													
46126				X		X													
46127				X		X													
46128				X		X													
46129				X		X													
46130				X		X													
46131				X		X													
46132				X		X													

500029

029

In P.P.M. UNLESS SPECIFIED

PROJECT		CO-ORDINATES				SAMPLED BY			MATERIAL				BOOK #	
SPL-806- MISERY FLATS J.V.		LINE: TRAVERSE ②				J.A.N.SBP			ROCK				SHEET #	
1/2		FROM: 0				DATE: JUNE '81			DEPTH: SURFACE				JOB #	
SAMPLE NUMBER	CO-ORDINATES		Interm +/-	TO: 650M								DESCRIPTION		
	N/S	E/W		Cu	Pb	Zn	Ag	Fe	Mn	Bi	Hu		As	Sn
46105	33205	334060		X	20	15	X	2500	10	10	X	X	X	shale (red)
46106	33194	3374220		5	10	10	X	2500	5	X	X	X	X	shale (red)
46107	33183	330374420		5	20	10	X	2050	10	X	X	X	X	shale

500030

030

SP. 806 - MISERY / F. AT 3. V.				CO-ORDINATES				SAMPLED BY				MATERIAL				BOOK N°			
3/2				LINE 1												SHEET N°			
				FROM :				DATE				DEPTH				JOB N°			
SAMPLE NUMBER		CO-ORDINATES		Interval	TO :												DESCRIPTION		
		N/S	E/W	+/-	Sb	W.													
46/105						X		X											
46/106						X		X											
46/107						X		X											

500031

031

IN P.P.M. UNLESS SPECIFIED.

PROJECT: SPL 806: MISERY FLAT J.V.				CO-ORDINATES				SAMPLED BY				MATERIAL				BOCK #	
				LINE: TRAVERSE ①				J. A. N. S. B.P.				ROCK				SHEET #	
1/2.				FROM: 0				DATE				DEPTH				VSS #	
				TO: 124				JUNE '81				SURFACE					
SAMPLE NUMBER	CO-ORDINATES			Inches +/-	ELEMENTS											DESCRIPTION	
	N/S	E/W			Cu	Pb	Zn	Ag	Fe	Mn	B	Al	As	Sn			
46104332350373750					20	40	20	X	3850	10	5	X	3	12	bb ss ch		

500032

032

PROJECT <i>SPL 306 - MISERY PLAT J.V.</i>				CO-ORDINATES				SAMPLED BY				MATERIAL				SOCK N°																																																																																			
				LINE:												SHEET N°																																																																																			
<i>2/2</i>				FROM:				DATE				DEPTH				JOB N°																																																																																			
SAMPLE NUMBER		CO-ORDINATES		INTERVAL	TO:											DESCRIPTION																																																																																			
		N/S	E/W	+/-	Sb.	W.																																																																																													
116104					4	X																																																																																													
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

500033

033

IN P.P.M. UNLESS SPECIFIED.

PROJECT				CO-ORDINATES				SAMPLED BY				MATERIAL				BOOK NO	
SPL 806-MISERY FLAT J.V.				LINE: TRAVERSE LYNELL H'WAY.				J.A.N. S.B.P.				ROCK				SHEET NO	
1/2				FROM: START T(1)				DATE: JUNE '81				DEPTH: SURFACE				JOB NO	
SAMPLE NUMBER	CO-ORDINATES			INSTRUMENT	TO: START T(2)				Fe	Mn	Si	Al	AS	Sn	DESCRIPTION		
	N/S	E/W	+/-		Cu	Pb	Zn	Ag									
46101	332370	373600			10	50	25	X	3550	30	5	X	9	X	SECT		
46102	332390	373660			20	30	30	X	50%	20	X	X	23	X	SECT		
46103	332240	373870			10	40	20	X	4600	10	5	X	7	6	SECT		

500034

034

SUBJECT: SPL. 806 - M. SERY FLAT JV. 2/2.				CO-ORDINATES LINE:				SAMPLED BY:				MATERIAL:				BOOK N°			
				FROM:				DATE:				DEPTH:				SHEET N°			
				TO:												JOB N°			
SAMPLE NUMBER	CO-ORDINATES		Interval +/-	TO:		Sb		W										DESCRIPTION	
	N/S	E/W																	
46101							X		X										
46102							X		10										
46103							X		X										

500035

035

PROJECT		CO-ORDINATES		SAMPLED BY		MATERIAL		BOOK #					
SALB06 MISERY FLATS IV.		LINE: TRAVERSE (6)		J.A.N.S.B.P.		ROCK		SHEET #					
FROM: H'WAY		TO:		DATE: 26 JUNE 81		DEPTH: SURFACE		JOB #					
SAMPLE NUMBER	CO-ORDINATES		Cu	Pb	Zn	Ag	Fe	Mn	Ba	Au	As	Sr	DESCRIPTION
	N	E											
46353331	850	373930	25	10	15	05	128	5		X	X	10	X und. 1/4" shell
46354331	740	373840	15	35	20	05	7250	55		X	X	11	16 gtz shell
46355331	680	373820	10	30	35	X	3700	35		X	X	4	X gtz shell
46356331	20	373780	20	20	35	05	7750	95		X	X	9	X gtz shell

500036



037

TABLE				CO-ORDINATES				SAMPLED BY				MATERIAL				BOOK #	
SPL 806-				LINE: TRAVERSE KYELL Hwy				T. A. NSBP.				FALLINGS.				SHEET #	
M. SERY FLATS, IV				FROM:				DATE: JUNE 81.				DEPTH:				JOB #	
SAMPLE NUMBER	CO-ORDINATES		INTERVAL +/-	TO:				Fe	Mn	Bi	Au.	As	Sn.	DESCRIPTION			
	N/S	E/W		Cu	Pb	Zn	Ag										
43503	37550	375370		1850	60	20	20	26.5%	15	20	0.460	380	X				
43504	376350	375400		840	60	40	30	24.0%	15	25	0.717	280	6				
43505	331700	374680		2600	55	35	20	24.0%	15	20	0.317	250	3				
43506	332570	377770		610	35	15	30	20.5%	10	15	0.608	170	8				
43507	332490	372520		1550	205	195	40	24.0%	20	25	0.700	310	10				
43508	332100	372230		740	170	175	35	25.0%	20	5	0.358	210	7				
43509	332130	369950		2100	75	35	30	24.0%	30	X	0.700	340	10				

500038

038

SPK 806. MISERY FLAT J.V.				CO-ORDINATES				SAMPLED BY				MATERIAL				BOOK NO	
				LINE: TRAVERSE - LYELL 1/2 WAY				J.A.N. S.B.P.				TAILINGS.				SHEET NO	
				FROM:				DATE				DEPTH				JOB NO	
				TO:				JUNE '91.									
SAMPLE NUMBER	CO-ORDINATES		INTERVAL	TO:										DESCRIPTION			
	N/S	E/W		Sb.	W.												
43503				X	X												
43504				X	X												
43505				X	X												
43506				X	X												
43507				3	X												
43508				3	X												
43509				2	X												

500039

Electrolytic Zinc Co. of A'asia Ltd.  
Rosebery, Tas.

ROCK SAMPLE LEDGER

PROJECT: EL 51/80 Misery FLAT LOCALITY: Queenstown - Strahan Rd.

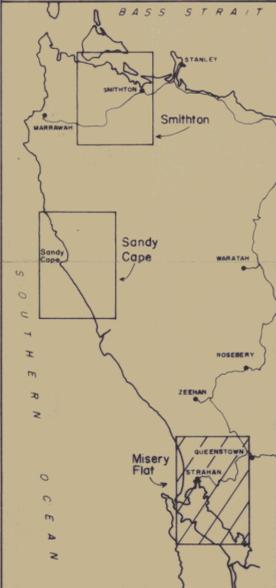
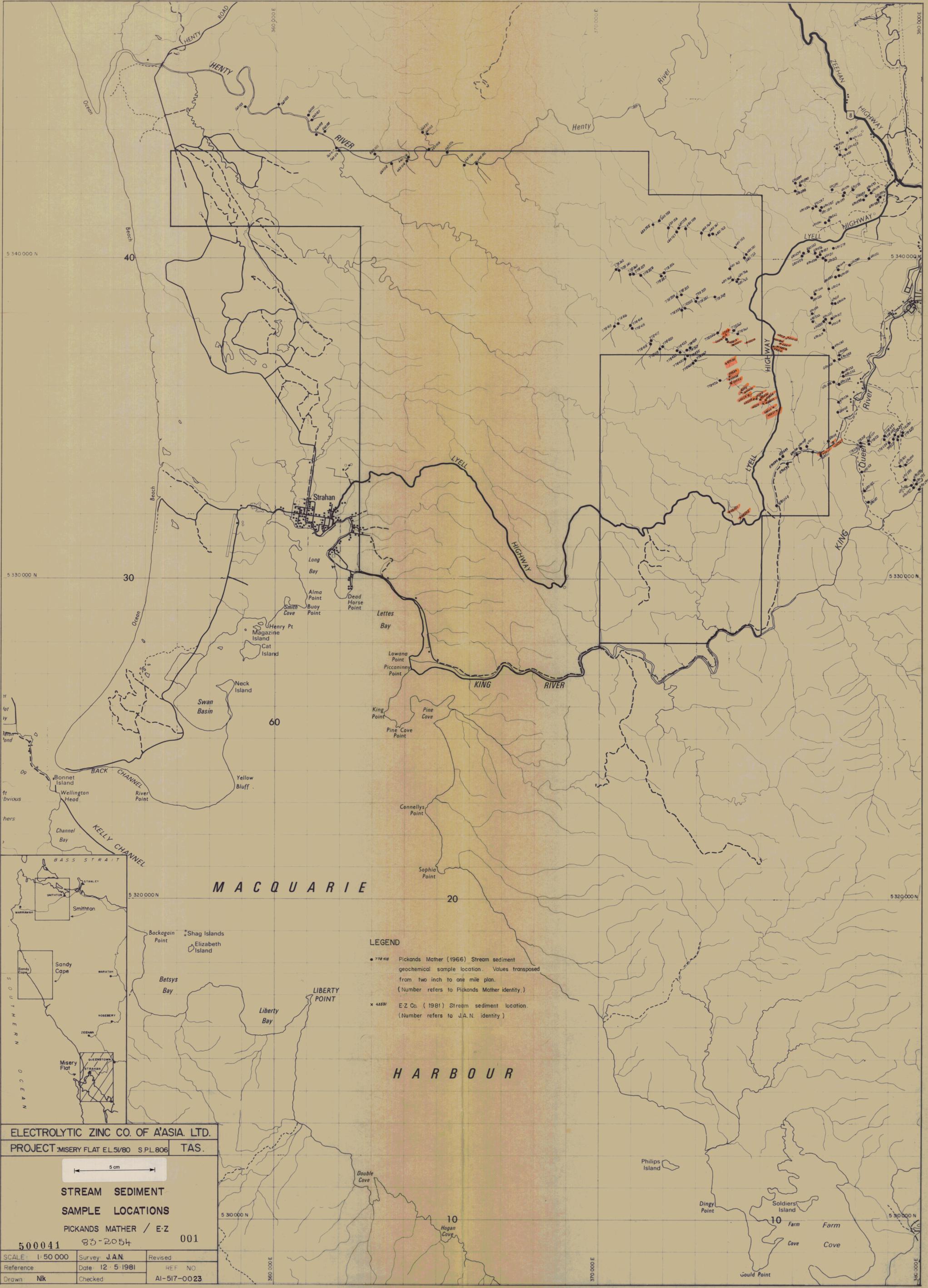
COLLECTED BY: J Mill

DATE: 23-1-81.

039

Sample Number	A.M.G.Co-ordinates		Sample Type	Geological Description	Rock-type (Macroscopic)	Thin or Polished Section			Metal Content (p.p.m. unless specified)							
	N	E				T or P	By	Reference	Rock-type (Microscopic)	Cu	Pb	Zn	Fe	Mn	As	Sb
38749	5,337,900	375,000	Rock chip	Grey shale, slightly pyritic from outcrop to west of Strahan-Q'town Rd.					80	180	75	6450	10	16	4	0.016
38750	5,337,900	375,000	Rock chip	Slightly pyritic shale from outcrop just west of Strahan-Q'town Road.					20	50	30	9850	5	23	4	0.016
38751	5,337,900	375,000	Rock	White Quartzite with minor surficial Pyrite From the Mac Quarre AV workings west of Strahan Q'town Road.					20	10	10	5450	50	1	1	N.D.
38752	5,337,900	375,000	Rock chip	Cleaved slate from Strahan-Q'town Rd.					15	10	10	4450	15	1	1	0.072
38753	5,337,900	375,000	Tailings?	Pyritic material from the Mac Quarre prospect west of Strahan-Q'town Rd.					1100	30	10	8990	N.D.	1200	1	N.D.
38754	5,337,900	375,000	Rock chip	Fine grained white limonitic sandstone from Strahan-Q'town Road.					30	N.D.	15	1590	20	19	1	0.064

500040



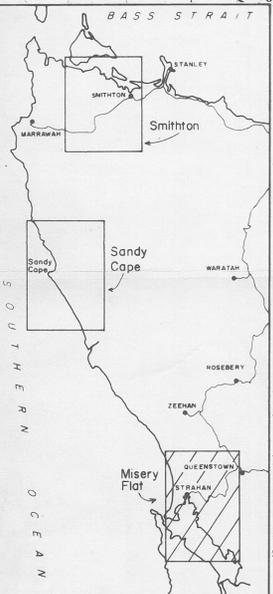
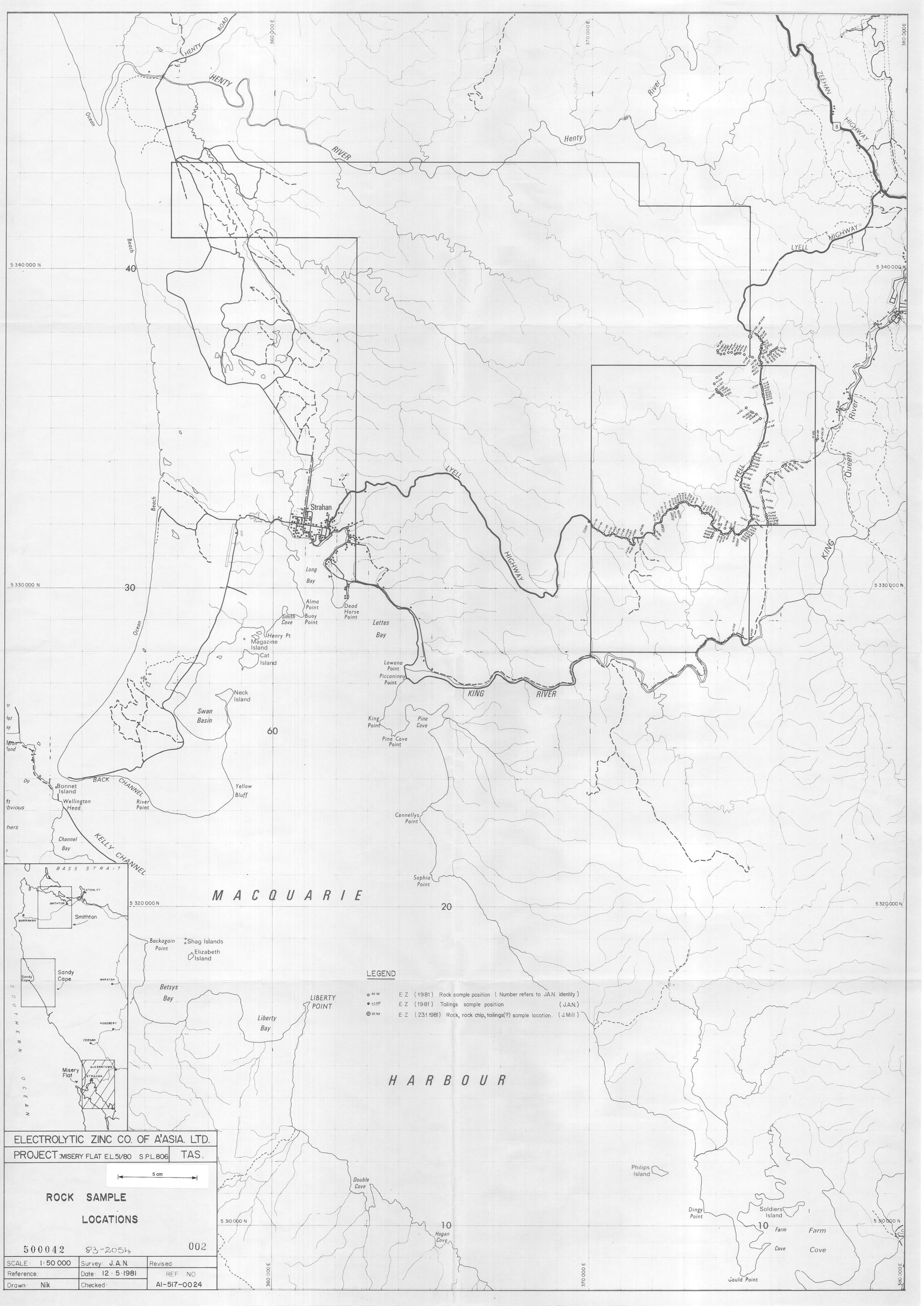
**MACQUARIE**

**LEGEND**

- 778-918 Pickands Mather (1966) Stream sediment geochemical sample location. Values transposed from two inch to one mile plan. (Number refers to Pickands Mather identity.)
- × 44581 E-Z Co. (1981) Stream sediment location. (Number refers to J.A.N. identity)

**HARBOUR**

ELECTROLYTIC ZINC CO. OF ASIA. LTD.		
PROJECT MISERY FLAT EL.SI/80 S.P.L.806	TAS.	
<b>STREAM SEDIMENT SAMPLE LOCATIONS</b>		
PICKANDS MATHER / E-Z		
500041	83-2054	001
SCALE: 1:50 000	Survey: J.A.N.	Revised:
Reference:	Date: 12-5-1981	REF NO:
Drawn: Nik	Checked:	AI-517-0023



**M A C Q U A R I E**

**H A R B O U R**

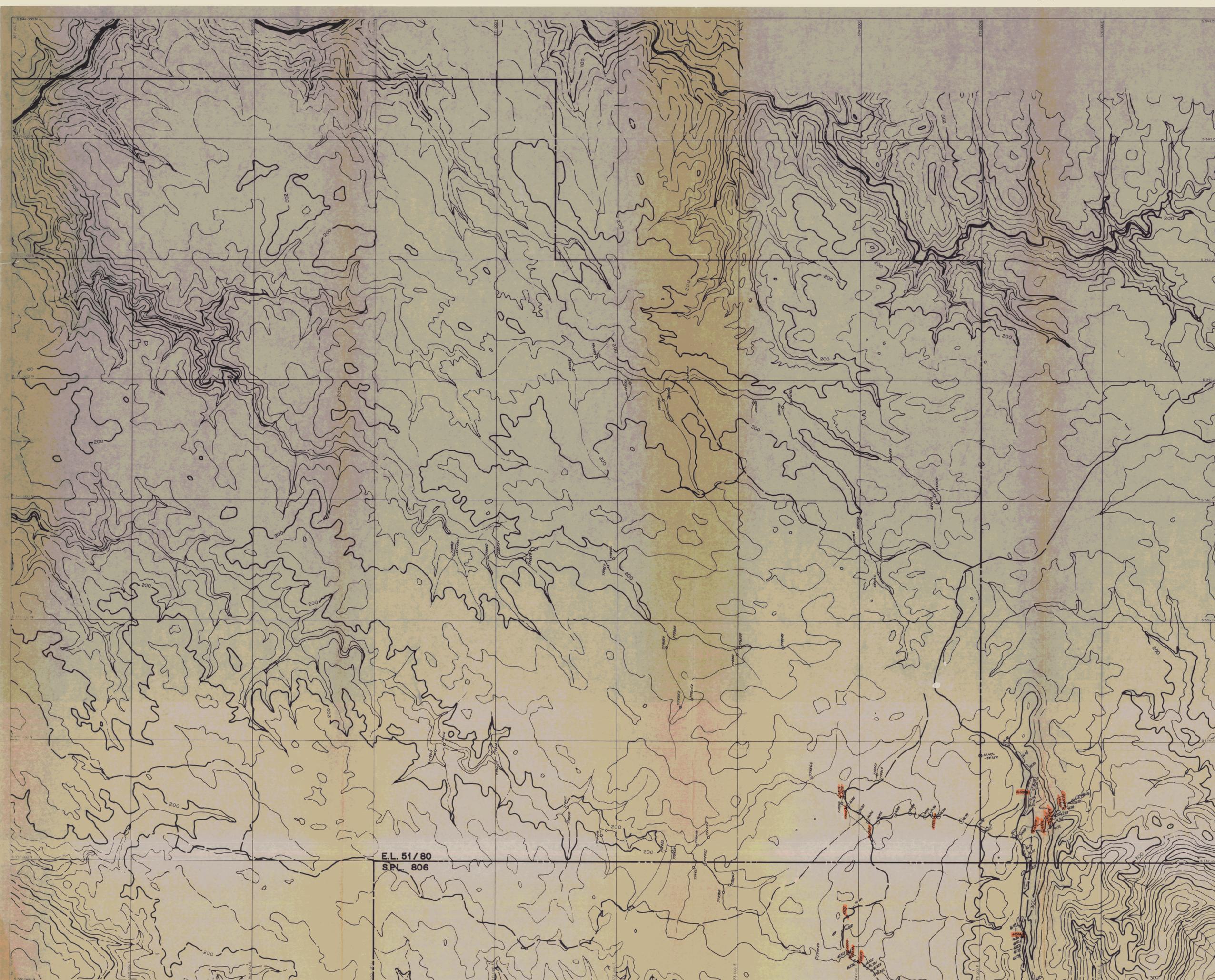
**LEGEND**

- 48 185 E-Z (1981) Rock sample position ( Number refers to J.A.N. identity )
- 23 039 E-Z (1981) Tailings sample position ( J.A.N. )
- ⊙ 38 749 E-Z (23.1.1981) Rock, rock chip, tailings(?) sample location. ( J.Mill )

ELECTROLYTIC ZINC CO. OF ASIA. LTD.  
 PROJECT: MISERY FLAT EL.51/80 S.P.L.806 TAS.

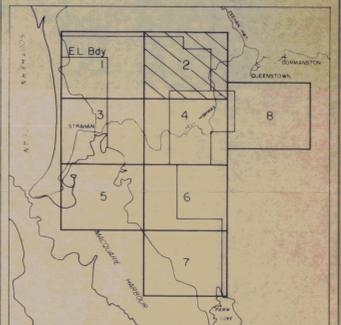
500042 83-2054 002

SCALE: 1:50 000 Survey: J.A.N. Revised  
 Reference: Date: 12.5.1981 REF NO  
 Drawn: Nik Checked: AI-517-0024



**LEGEND**

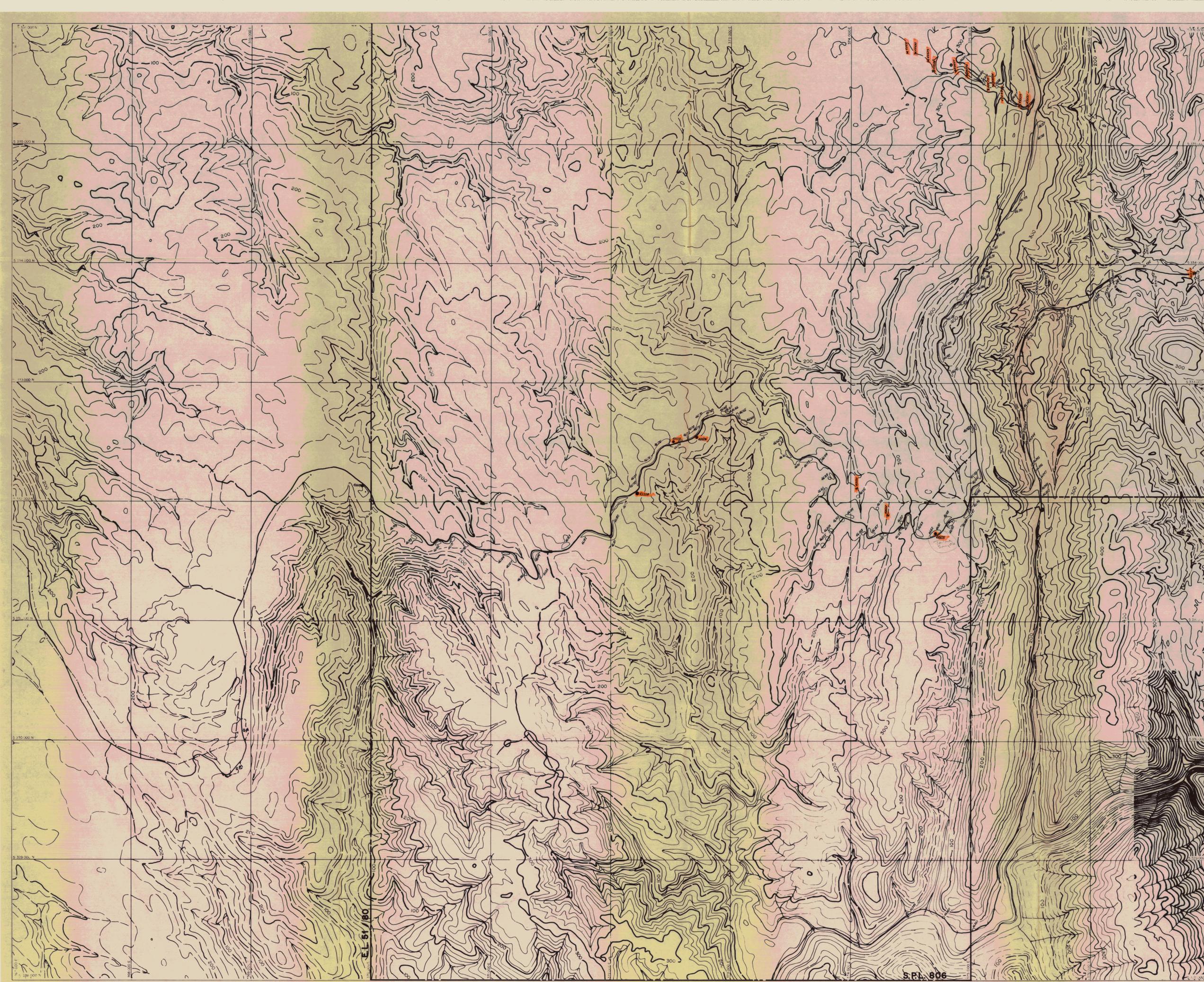
-  Pickands Mather (1966) Stream Sediment geochemical sample location. Values transposed from two inch to one mile plan.  
(Number refers to Pickands Mather identity)
-  E.Z. Co. (1981) Stream Sediment sample location (J.A.N.)
-  E.Z. Co. (1981) Rock sample location (J.A.N.)
-  E.Z. Co. (1981) Tailings sample location (J.A.N.)
-  E.Z. Co. (23.1.1981) Rock, rock chip, tailings(?) sample location (J.Mill)



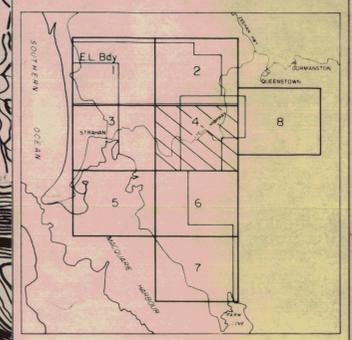
E.L. 51/80  
S.P.L. 806

ELECTROLYTIC ZINC CO. OF AASIA LTD.  
PROJECT: MISERY FLAT TAS.  
E.L.51/80, S.P.L. 806  
500043  
ROCK SAMPLE and  
STREAM SEDIMENT SAMPLE  
LOCATIONS  
83-2054 003

SCALE	1:10000	Survey	J.A.N.	Revised
Reference	Date	9.11.1982	REF NO	
Drawn	Nik	Checked	AO-817-0025	



- LEGEND**
- Pickands Mother (1966) Stream Sediment geochemical sample location. Values transposed from two inch to one mile plan. (Number refers to Pickands Mother identity)
  - E.Z. Co (1981) Stream Sediment sample location (J.A.N.)
  - E.Z. Co (1981) Rock sample location (J.A.N.)
  - E.Z. Co (1981) Tailings sample location (J.A.N.)



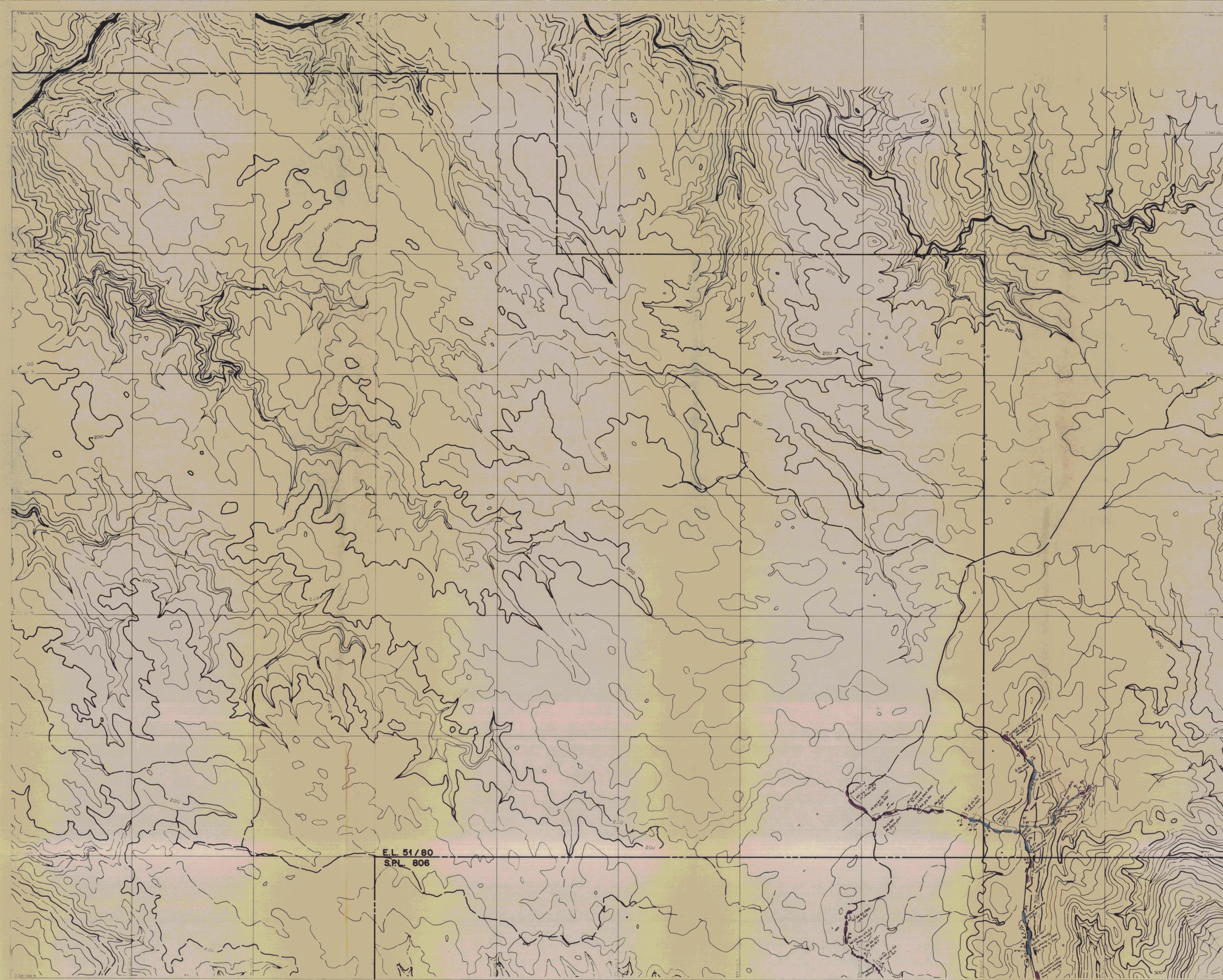
5 cm

**ELECTROLYTIC ZINC CO. OF AASIA LTD.**  
**PROJECT: MISERY FLAT TAS.**  
**E.L. 51/80, S.P.L. 806**

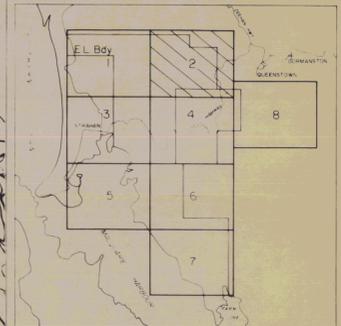
**ROCK SAMPLE and**  
**STREAM SEDIMENT SAMPLE**  
**500044 LOCATIONS 004**

85-2054

SCALE 1:10000	Survey J.A.N.	Revised
Reference	Date 9.11.1982	REF NO
Drawn Nik	Checked	AO-517-0026



E.L. 51/80  
S.P.L. 806

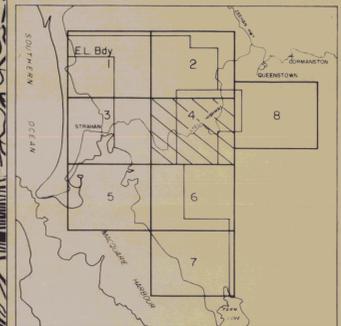


ELECTROLYTIC ZINC CO. OF ASIA LTD.  
PROJECT: MISERY FLAT E.L. 51 / 80  
S.P.L. 806

500045		005	
<b>GEOLOGY</b>			
SCALE	1:50000	Survey	J.A.N.
Reference	Date	10.11.1982	REF NO
Drawn	Nik	Checked	AO-517-002B



EL 51/80  
SPL 806



ELECTROLYTIC ZINC CO. OF AASIA LTD.  
PROJECT: MISERY FLAT EL. 51 / 80  
S.P.L. 806

500046  
GEOLOGY  
006

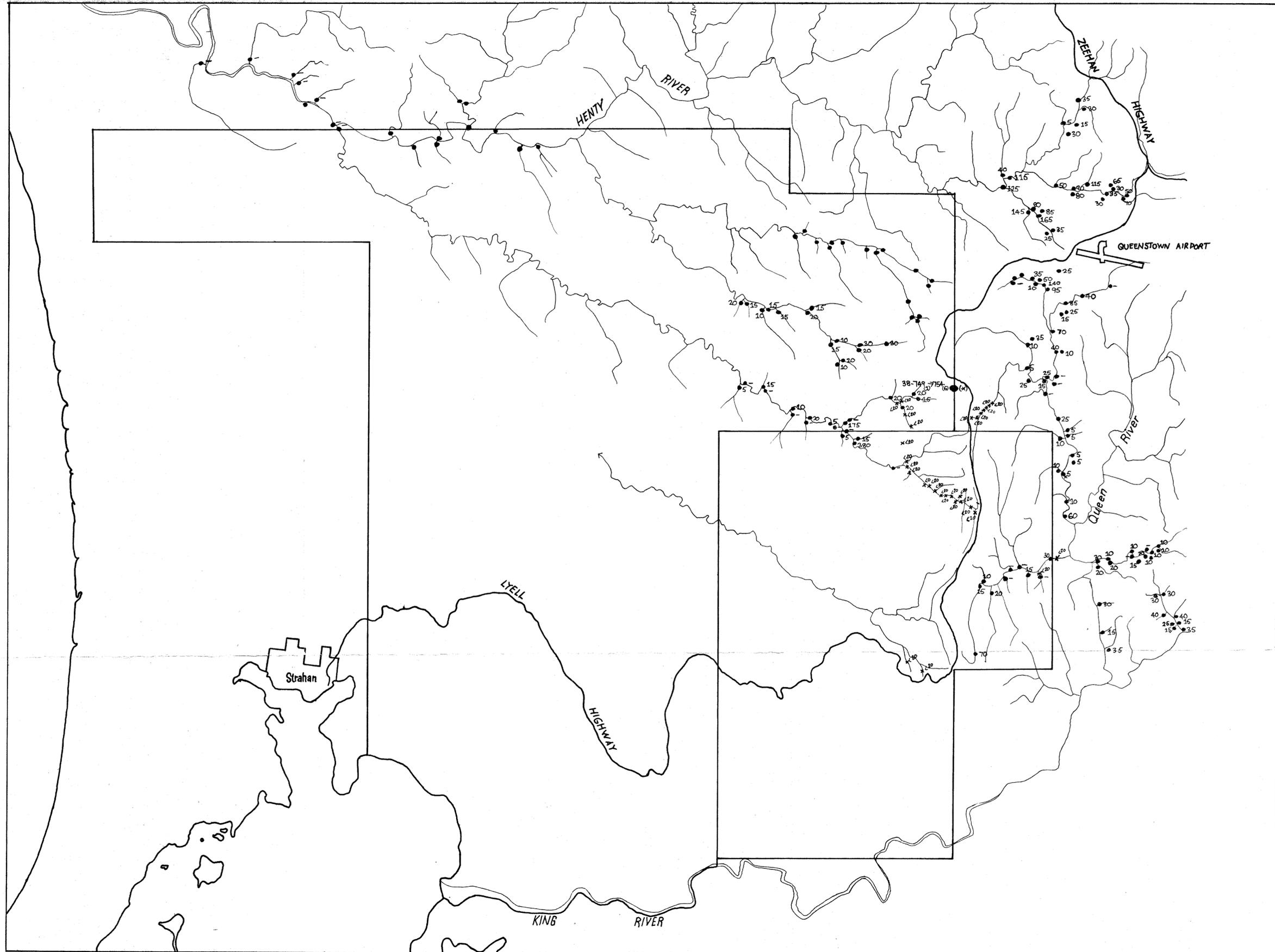
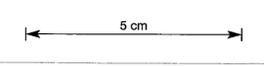
SCALE	1:10000	Survey	JAN	Revised
Reference	Date	10.11.1982	REF NO	
Drawn	Nik	Checked		AO-517-0029

500047

### MISERY FLATS , EL 51/80

LEAD VALUES FOUND DURING STREAM SEDIMENT SAMPLING (VALUES IN P.P.M.)

SCALE 1:50,000



- 35 Pickands Mather (1966) lead values. Values transposed from two inch to one mile plan. Stream sediment geochemical sample locations.
- (x) 38749, 754 E.Z.Co. (1981) lead values. Rock, rock chip, tailings(?) geochemical sample location. (J. Mill (23-1-81))
  - (1) Rock chip
  - (2) Rock chip
  - (3) Rock
  - (4) Rock chip
  - (5) Tailings (?)
  - (6) Rock chip
- x <20 E.Z. Co. Bulk Stream Sediment Sample Value (J.A.N 1981)

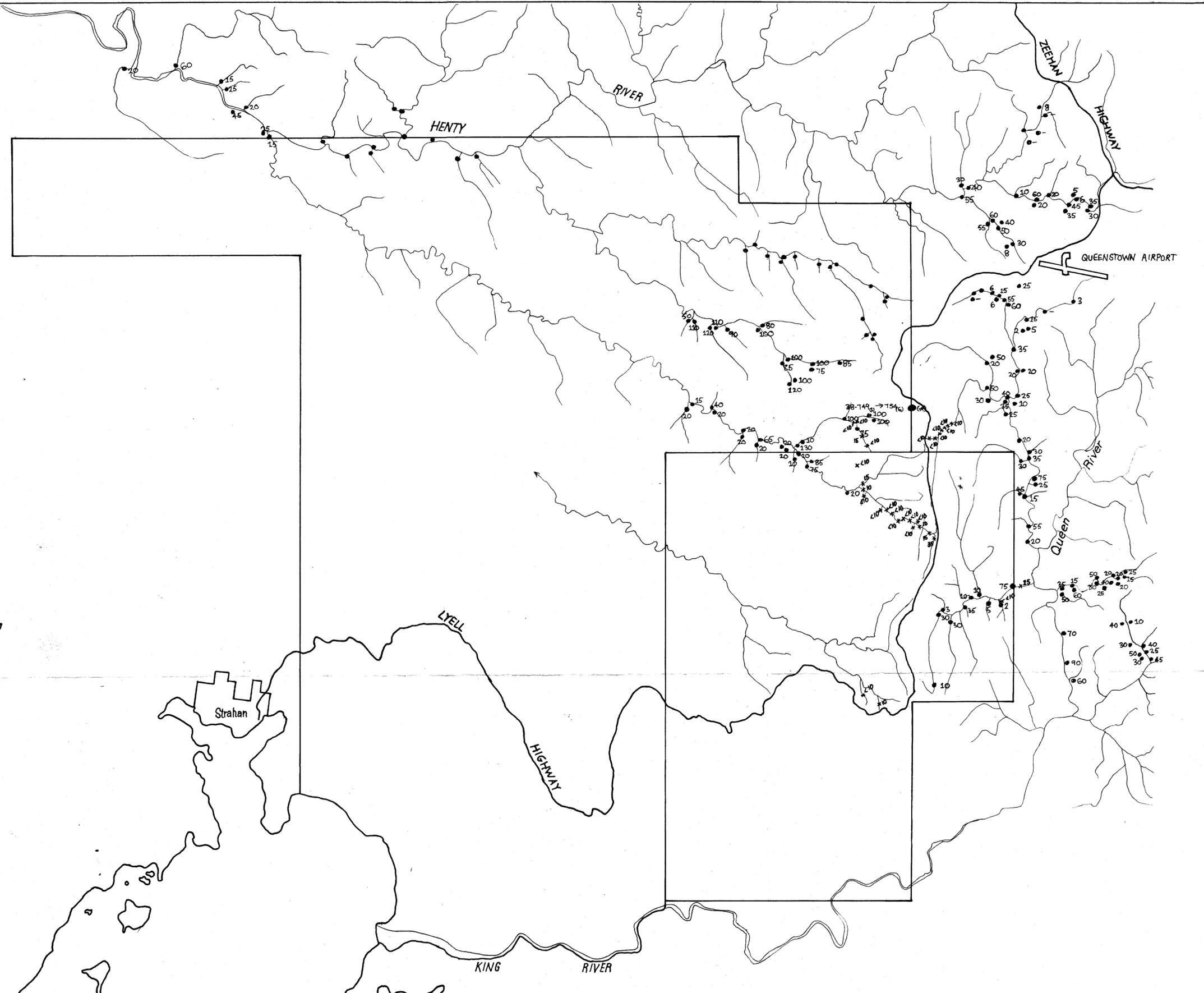
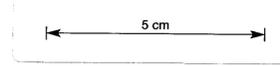
Assay values missing : 660-002, 004, 006, 008, 010, 012, 014, 016, 018, 020  
 680-554, 555  
 680-751, 752, 753, 754, 755, 756, 757, 758, 759, 760,  
 761, 762, 763, 765, 766, 768

500048

### MISERY FLATS, EL 51/80

ZINC VALUES FOUND DURING STREAM SEDIMENT SAMPLING (VALUES IN P.P.M.)

SCALE 1:50,000



- 35 Pickands Mather (1966) zinc values. Values transposed from two inch to one mile plan. Stream sediment geochemical sample locations.
- (x) 38-74<sub>1</sub> → 75<sub>6</sub> E.Z.Co. (1981) zinc values. Rock, rock chip, tailings (?) geochemical sample location. (J.Mill.23-188)
  - (1) Rock chip
  - (2) Rock chip
  - (3) Rock
  - (4) Rock chip
  - (5) Tailings(?)
  - (6) Rock chip
- x 10 E.Z. Co Bulk Stream Sediment Sample Value (J.A.N June 1981)

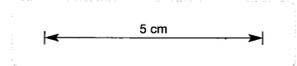
Assay values missing: 660-002,004,006,008,010,012,014,016,018,020  
 680-554,555  
 680-751,752,753,754,755,756,757,758,759,760  
 761,762,763,765,766,768

500049

### MISERY FLATS, EL 51/80

NICKEL VALUES FOUND DURING STREAM SEDIMENT SAMPLING (VALUES IN P.P.M.)

SCALE 1:50,000



● 5 Pickands Mather (1966) nickel values. Values transposed from two inch to one mile plan. Stream sediment geochemical sample locations.

Assay values missing: 660-002, 004, 006, 008, 010, 012, 014, 016, 018, 020  
 680-554, 555  
 680-751, 752, 753, 754, 755, 756, 757, 758, 759,  
 760, 761, 762, 763, 765, 766, 768

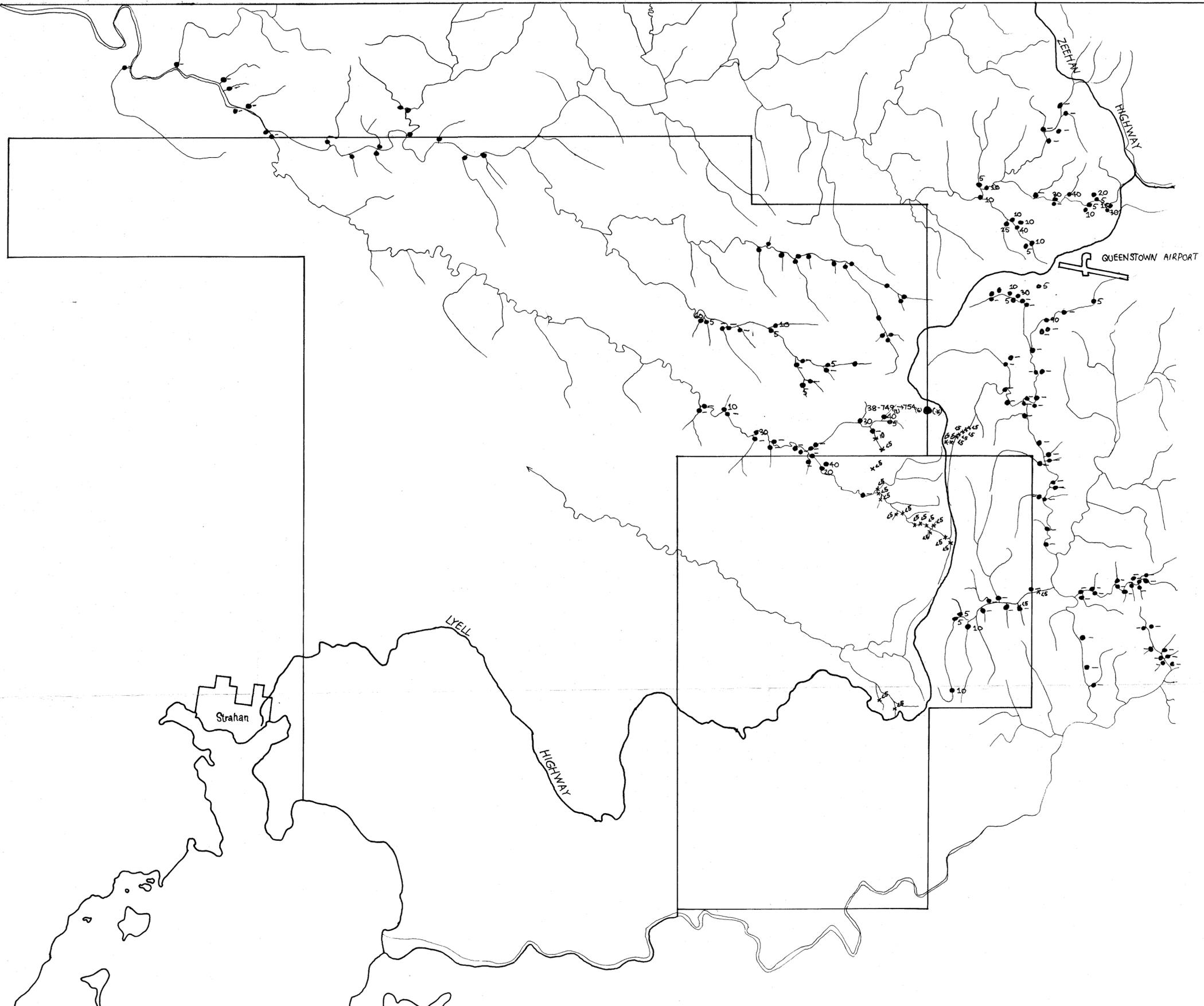
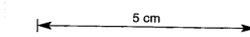


500050

### MISERY FLATS, EL 51/80

ARSENIC VALUES FOUND DURING STREAM SEDIMENT SAMPLING (VALUES IN P.P.M.)

SCALE 1:50,000



- 5 Pickands Mather (1966) arsenic values. Values transposed from two inch to one mile plan. Stream sediment geochemical sample locations.
- C# 38749, 754, E.Z. Co. (1981) arsenic values. Rock, rock chip, tailings (?) geochemical sample location. (J. Mill, 23.1.81)
  - (1) Rock chip (1) 16 ; (2) 23 ; (3) 1 ; (4) 1 ; (5) 1200 ; (6) 19
  - (2) Rock chip
  - (3) Rock chip
  - (4) Rock chip
  - (5) Tailings(?)
  - (6) Rock chip
- x 5 E-Z. Co Bulk Sediment Sample value (J.A.N. June 1981)

'MOLYBDENUM not detected'

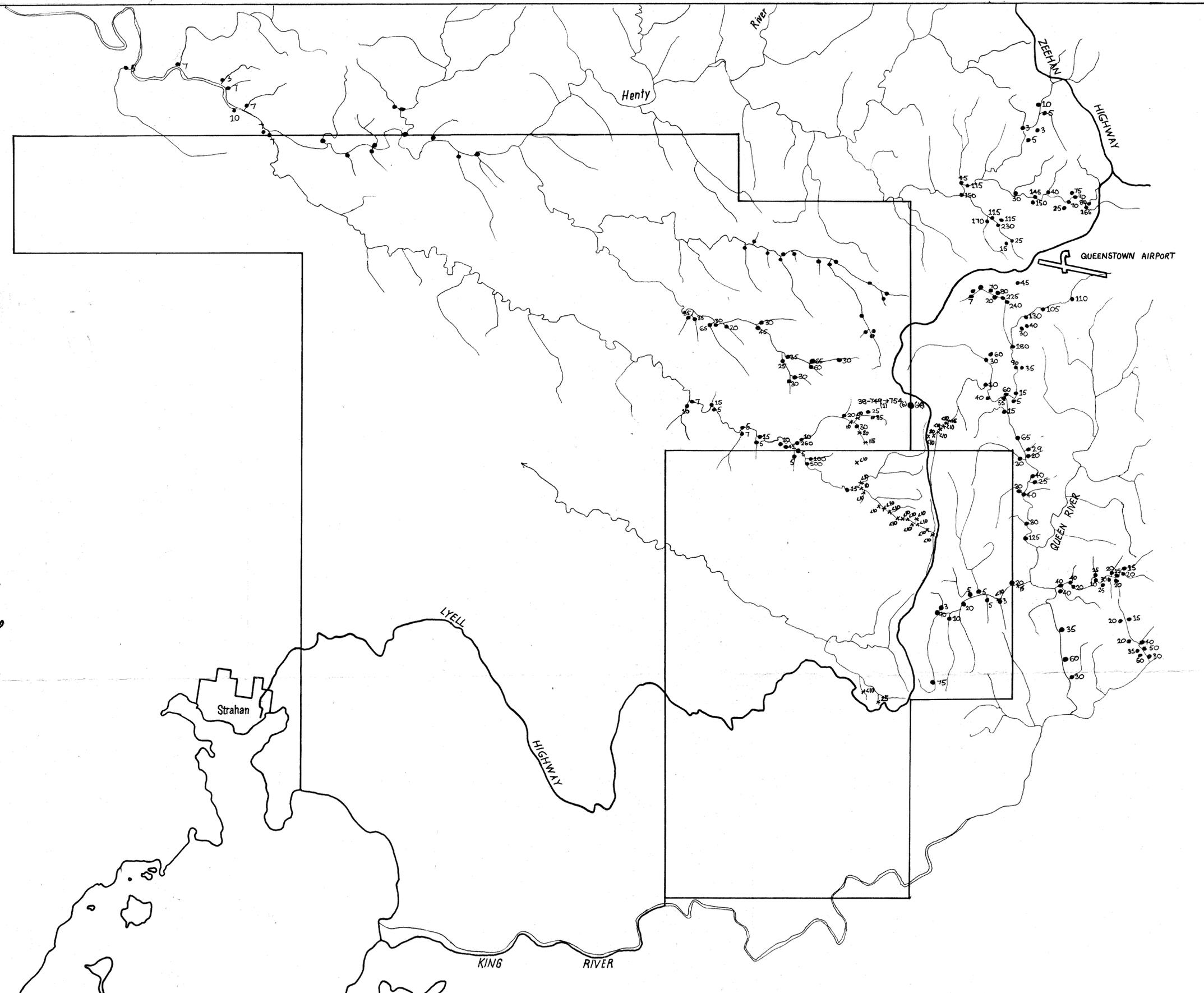
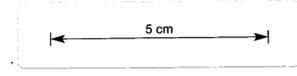
Assay values missing: 660-002, 004, 006, 008, 010, 012, 014, 016, 018, 020, 680-554, 555, 680-751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 765, 766, 768

500051

### MISERY FLATS, EL 51/80

COPPER VALUES FOUND DURING STREAM SEDIMENT SAMPLING (VALUES IN P.P.M.)

SCALE 1:50,000



● 35 Pickands Mather (1966) copper values. Values transposed from two inch to one mile plan. Stream sediment geochemical sample locations.

● (x) 38749, 754 E.Z.Co. (1981) copper values. Rocks, rock chip, tailings(?) geochemical sample location.  
(1) Rock chip (1) 80 ; (2) 20 ; (3) 20 ; (4) 15 ; (5) 1100 ; (6) 30  
(2) Rock chip  
(3) Rock  
(4) Rock chip  
(5) Tailings(?)  
(6) Rock chip

x < 10 E.Z. Co Bulk Stream Sediment values (J.A.N June '81)

Assay values missing : 660-002,004,006,008,010,012,014,016,018,020  
680-554,555  
680-751,752,753,754,755,756,757,758,759,760,  
761,762,763,765,766,768

**IGNEOUS ROCKS**



**IGNEOUS GRAIN SIZE**

vco	VERY COARSE GRAINED	>5cm
co	COARSE GRAINED	5cm - 5mm
mg	MEDIUM GRAINED	5mm - 1mm
fg	FINE GRAINED	<1mm

**STRUCTURAL AND TEXTURAL SYMBOLS**

LT 958	+	MAJOR INTRUSIVES	
LT 963	+++	MINOR INTRUSIVES	
LT 132		UNDIFFERENTIATED TUFF	
LT 132		LITHIC TUFF	
LT 132		CRYSTALLINE TUFF	
LT 132		VITRIC TUFF	
LT 130		LAPILLI TUFF	4 - 32mm
LT 970		PYROCLASTIC BRECCIA	>32mm
LT 970		AGGLOMERATE	>32mm
LT 191		ASH FLOW	
LT 132/133		ASH FALL (AIR FALL TUFF)	
LT 873		LAVA BOMBS	
	pm	PUMICE	
	fm(O)	FIAMME (LENGTH IN cms)	
	p	PORPHYRITIC	
	a	AMYGDALOIDAL	
	v	VESICULAR	
	s	SPHERULITIC	
	w	WELDED	
	rw	REWORKED	
	ac	ACICULAR	
	oph	OPHITIC	
	cl	CLOTS	
	pg	PEGMATIC	
	qe	QUARTZ EYES / AUGEN TEXTURE	
	bd	BANDING	
	fb	FLOW BANDING	
	fb	FLOW BRECCIA	
	pl	PILLOWS (WITH FACING)	
	ch	CHILLED MARGIN	
	vms	VEINS	
	bd	BEDDED	
	tb	THICK BEDDED	
	tb	THIN BEDDED	
	lam	LAMINATED	
	gd	GRADED or DIRECTION OF DECREASING GRAIN SIZE	
	lc	LODE CAST	
	sf	SCOUR AND FILL	
	m	MASSIVE	
	cl	CLEAVED	
	sch	SCHISTOSE	
	jd	JOINTED	
	bd	BRECCIATED (TECTONIC)	
	ox	OXIDISED	
	L	LATERITE	
	stn	STAINING	
	ib	INTERBEDDED	
	hfs	HORNFELSED	

**SILICATE MINERALOGY**

20	q	QUARTZ
51	k	K - FELDSPAR
17	ab	ALBITE
45	p	PLAGIOCLASE
45	a	AMPHIBOLE
64	px	PYROXENE
45	b	BIOTITE
45	c	CHLORITE
45	cb	CARBONATE
31	s	SERICITE
46	e	EPIDOTE
64	t	TALC
6	ba	BARITE
45	f	FELDSPAR
45	hb	HORNBLende
45	sd	SILICIFIED
47	to	TOURMALINE
51	ol	OLIVINE

**TOPOGRAPHICAL SYMBOLS**

—	WATER RACE
—/—/—	FENCE
—	FORMED ROAD
—	TRACK
—+—	RAILWAY
—+—	RAILWAY (ABANDONED)
—	RIVER
—	STREAM
—	LAKE
—	SWAMP
—	BUILDING
—	POWER LINE
—	TRIG STATION
—	HILL
—	SHAFTS
—	ADIT
—	TRENCH
—	MINE OR QUARRY

**ALTERATION MINERALOGY**

17	ab	ALBITISED
55	cb	CARBONATED
45	cd	CHLORITISED
31	sd	SERICITISED
20	sl	SILICIFIED
45	hd	HORNBLendeISED
47	td	TOURMALINISED
27	kl	KAOLINISED

**COLOURS**

pl	PALE
dk	DARK
pk	PINK
rd	RED
org	ORANGE
yel	YELLOW
ol	OLIVE
grn	GREEN
bl	BLUE
gry	GREY
blk	BLACK
brn	BROWN
wh	WHITE
crm	CREAM
purp	PURPLE

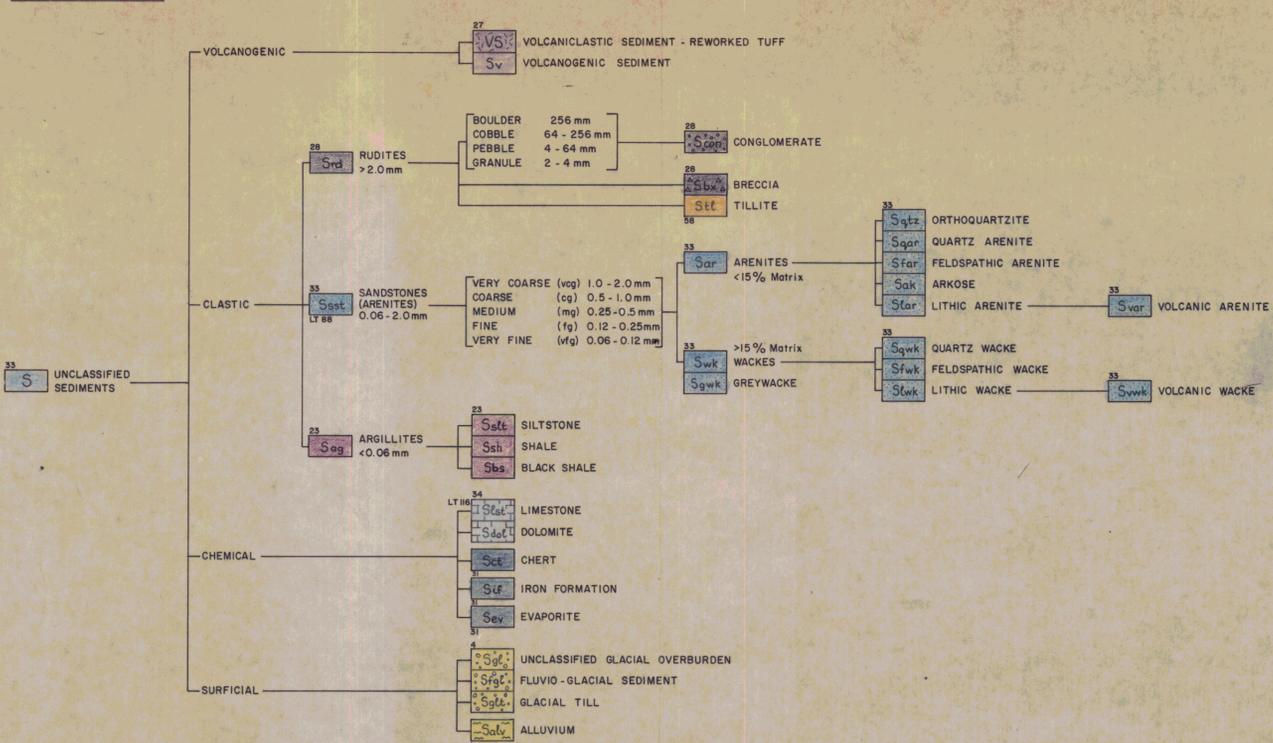
**OPERATION OF LEGEND**

**DESCRIBING ROCK UNITS**

- CAPITAL LETTER: indicates primary classification eg. S - sedimentary rocks, A - acid igneous rocks
- LOWER CASE LETTERS: indicates the following -
  - AS PREFIXES: in progressive order
    - COLOURS eg. gmM: green mafic igneous rock  
pk/gm A: pink fragments or phenocrysts in an acid igneous rock with a green matrix
    - STRUCTURAL or TEXTURAL FEATURES eg. xtA: crystal tuff of acid composition  
xbdS: cross bedded sedimentary rock
  - AS SUFFIXES: in progressive order
    - CATEGORISED eg. Ar: rhyolite, Ssh: Shale
    - MINERALOGY eg. pArf: rhyolite with feldspar phenocrysts  
Aqs: quartz sericite rock of acid igneous origin  
Aa'b: albitised rhyolite

EXAMPLE: pk/gm clvd xvt Ard ab c'd  
 pk/gm: (Colours) pink crystals in a green matrix  
 clvd: (Structural feature) cleaved  
 xvt: (Texture) crystal vitric tuff  
 A: (Primary subdivision) acid igneous rock  
 rd: (Categorised) rhyodacite  
 ab: (Primary mineralogy) albite phenocrysts  
 c'd: (Alteration mineralogy) chloritised

**SEDIMENTARY ROCKS**



**SULPHIDE AND OXIDE MINERALOGY**

bwk	BOXWORK
su	SULPHIDES
gss	GOSSAN
pn	PENTLANDITE
hm	HÆMATITE
cc	CHALCOPIRITE
cv	COVELLITE
bn	BORNITE
cp	CHALCOPRYTITE
sp	SPHALERITE
gn	GALENA
po	PYRRHOTITE
py	PYRITE
ll	ILLMENAITE
lx	LEUCOXENE
mag	MAGNETITE
lm	LIMONITE
mn	MANGANESE OXIDES
chr	CHROMITE

**MINERALISATION**

DISSE	10% DISSEMINATED
DISSE	10 - 20% DISSEMINATED
DISSE	~25% DISSEMINATED
STR	STRINGER
MAS	MASSIVE

**DRILL HOLE SYMBOLS**

○	DRILL HOLE - BARREN
●	DRILL HOLE - MINOR OR POSSIBLE SUB-ORE GRADE MINERALISATION
●	DRILL HOLE - SIGNIFICANT OR POSSIBLE ORE GRADE AND WIDTH
○	DRILL HOLE - FAILED TO REACH TARGET



**METAMORPHIC ROCKS**

sch	UNCLASSIFIED SCHISTS
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LT 132: Code Number of LETRATONE pattern  
 10: Number of CUMBERLAND DERWENT SERIES No. 19 Coloured Pencil

ELECTROLYTIC ZINC CO. OF ASIA, LTD.		
PROJECT:	TAS.	
500052		
GEOLOGICAL LEGEND		
EXPLORATION		
8/20/54 012		
SCALE:	Survey: I.R.M.	Revised:
Reference:	Date: August 1980	REF. NO.
Drawn: R.P.T.	Checked: J.R.M.D.	AI-504 - ORIGINAL