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SK55-3
PROJECT 506

PLACER EXPLORATION LTD
RELINQUISHMENT REPORT
FOR 12 MONTHS TO JUNE 1990

EL 9/89, MOLE CREEK
TASMANIA

RPT NO. TAS 3/90

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90-3144

MINES	
File Ref. E.L. 9/89	
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EL 9/89

GOLD

SK55-03

SILVER

MOLE CREEK

LEAD

GEOLOGY

ZINC

MAYBERRY

COPPER

8114 (MERSEY)

GORDON LIMESTONE

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1. SUMMARY

EL 9/89 over the Mole Creek area was obtained to explore for Carlin style Au mineralisation.

Regional drainage sampling using bulk cyanide leach (Au, Ag, Cu) and -80# stream sediment (Cu, Pb, Zn, Ag, Au, Sn) showed no significant anomalous values. Weak isolate cyanide leach anomalies, (to 1.8ppb Au) were obtained in several drainages. Conventional drainage samples failed to show anomalies in these drainages but showed isolated anomalies (to 0.39 ppm Au) in other small drainages.

Soil sampling across poorly defined drainages showed no anomalous Au values. Weak zinc values (to 500 ppm) were noted. Adjacent samples (25m) showed values less than 200 ppm.

Isolated anomalous values were not considered significant as no signs of significant mineralisation or alteration were observed.

The area should be relinquished.

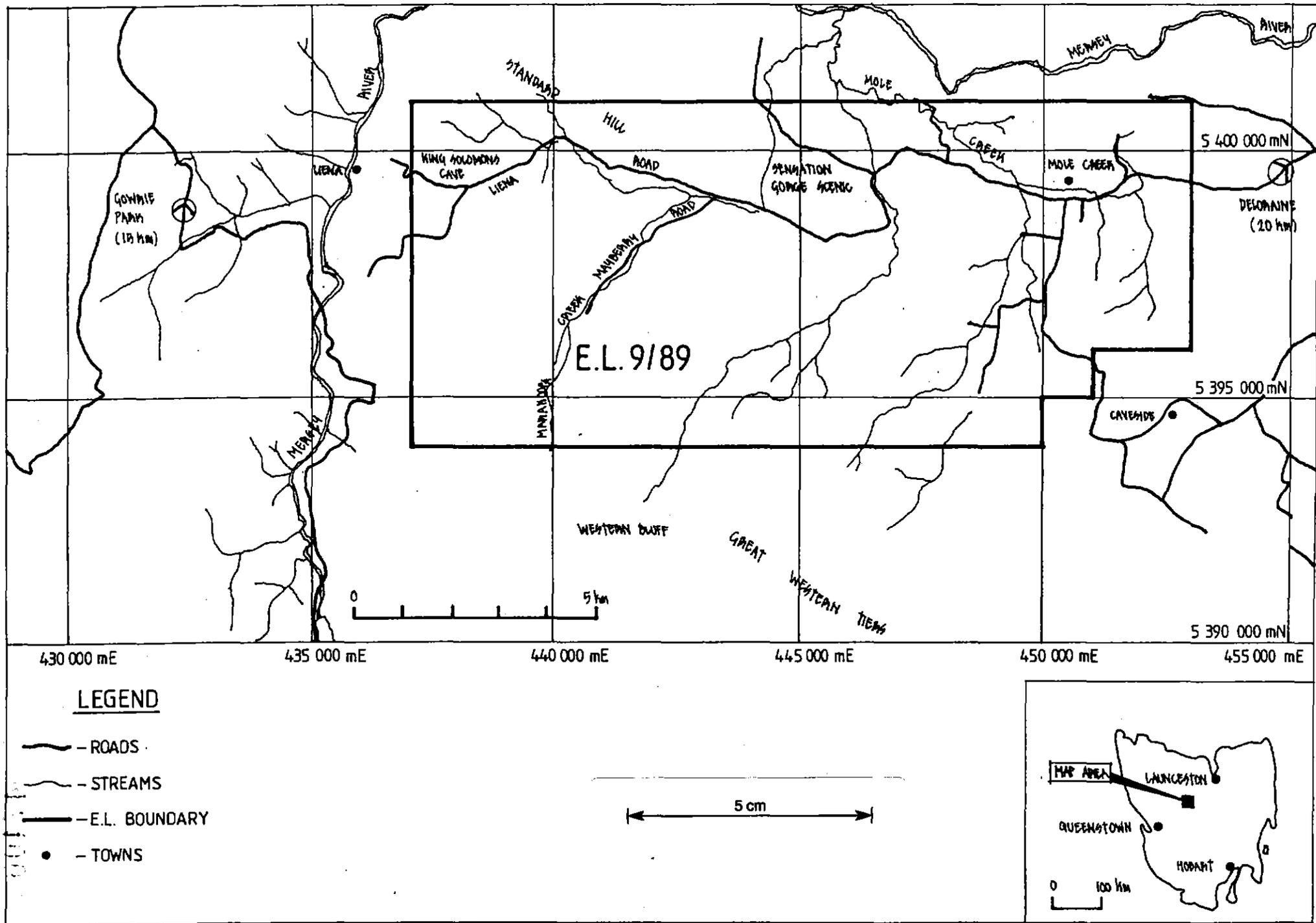


FIG. 1 LOCATION MAP, E.L. 9189 MOLE CREEK, TASMANIA.

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2. INTRODUCTION

EL 9/89, Mole Creek, is located 70km WSW of the major central northern Tasmanian city of Launceston (Figure 1). The Licence is centred on the small township of Mole Creek and extends east from Marakoopa Cave to Caveside and south from Mersey Hill to the foot of the Great Western Tiers.

The Licence was obtained by Placer Exploration Limited as a result of an application made in January 1989 over open ground. This was to explore an area underlain by Ordovician Gordon Limestone for Carlin style gold mineralisation. EL 9/89 was granted to Placer Exploration Limited on the 9th June 1989 over an area of 103 sq. km. This area had an expenditure commitment of \$29,000 over the first 2½ years of tenure.

This area is considered to have potential for gold mineralisation hosted in the Gordon Limestone. Any gold may have been mobilised by the adjacent granites at Emu Plains or any possible underlying granites, probably related to the Pb-Zn mineralisation at Mayberry (within EL 9/89).

Previous explorers, in the early 1970's - 1980's, located the Pb-Zn anomalous veining at Mayberry but, despite exploring for Au, no Au analyses were recorded. Most previous workers only completed brief (1-2 year programmes) exploration and evaluation of the area before relinquishing.

This report summarizes and records the investigations completed by Placer Exploration in the year (June 1989 - June 1990) between obtaining and relinquishing the EL 9/89 area.

3. LOCATION AND GENERAL

EL 9/89 is centred on the small town of Mole Creek in central northern Tasmania, about 40km south of the major port of Devonport. The 16km (E-W) by 7km (N-S) area is to the south and east of the Mersey River (Figure 1).

Excellent access to the Licence area is provided by the sealed Deloraine-Mole Creek-Liena-Cethana road through the northern part of the E.L. Other various grade sealed and gravel roads and farm and forestry tracks provide good driving access to within 2km of most parts.

The southern edge of the Licence extends onto the escarpment of the Great Western Tiers; a sequence of Permo-Triassic sediments over minor Silurian shales and capped by a Jurassic dolerite intrusion. This escarpment rises to a height of 1400m, 1000m above most of the remainder of the Licence. Vegetation on this escarpment changes from rainforest near the base to alpine scrub at the top, and is currently subject to environmental consideration for listing in various reserves.

The northwestern corner of the Licence is underlain by Ordovician siliceous sandstones and conglomerates which now form steep sided prominent ridges. These weather only very slowly to a shallow, nutrient poor, sandy soil which only supports a scrubby regrowth vegetation.

The remainder of the Licence is underlain by Ordovician Gordon Limestone. This easily weathered unit is generally a topographic low with minor rolling hills and numerous sink holes. Most of this area has now been cleared and its rich soil is being used for mixed farming.

The Licence area is drained by two main creeks, both tributaries of the Mersey River. These creeks (Mole and Sassafras Creeks) flow underground for significant distances before joining and flowing into the Mersey River.

On the Great Western Tiers escarpment and the areas of Ordovician siliceous sediments the streams are short and steep with a high energy flow. On the limestone the creeks are very irregular with many valleys being gently rolling with low slope angles. Many creeks flow underground and are thus difficult to trace.

4. TITLE

Exploration Licence 9/89 (Mole Creek) resulted from an application for an open area. The application, lodged on the 8th January 1989, covered an area of 107km² of Gordon Limestone thought to be prospective for Carlin style gold mineralisation.

On the 9th June 1989 EL 9/89 was granted to Placer Exploration Limited and covered an area of 103km². This excluded a further 4km² of reserves covering Lands Department administered caves.

Most of the Licence area is privately owned with minor state forest along the southern, western and north western boundaries.

EL 9/89 is subject to yearly renewals however, because of poor results the Licence will not be renewed after its first 12 month period.

5. PREVIOUS EXPLORATION

The earliest recorded work in the area was in 1974/75 by Cygnatrex Pty Ltd (U.S. Steel) on EL 13/74. Despite exploring for Carlin style fine gold mineralisation no Au analyses were recorded. Rather, initial wide spaced lines were reconnaissance soil sampled. Four anomalous Pb or Zn soil analyses were gridded soil sampled and rock chip sampled in narrow, shallow hand dug trenches. No further work was completed due to poor results. The Licence was relinquished.

Comalco (Shell) incorporated the western part of the relinquished EL 13/74 into their EL 7/74 (Moina Licence). An aeromagnetic-radiometric survey in March 1980 (Geometrics) showed two anomalies east of the Mersey River near Liena. These were gridded and traversed with ground magnetics, soil sampling (Cu, Pb, Zn, Bi, Ni, Co, Cu, Fe, Mn, Ag, Mo, Sn) and rock chip sampling. The single Pb/Zn anomaly on the Liena grid was found to be in the Croesus Cave Reserve and work ceased. Investigation of the other anomaly (Wattle Valley) continued with Max-Min EM, dipole-dipole IP, gravity, ground magnetic and VLF-EM surveys. These showed an anomaly (with coincidental geochemistry) just north of the grid origin (50mN 00mE) on which a percussion hole was drilled (WV1). A second hole (WV2) was drilled on a weaker anomaly at 400mW 170mS. Both holes showed slightly elevated Pb/Zn values in carbonaceous layers. No further work was completed before the area was relinquished in 1984.

In 1980 Amoco explored an area of 512km² (EL 2/80) around the Mole Creek area for carbonate hosted lead/zinc/silver deposits (Irish basemetals). Amoco located the old basemetal prospects and gridded and soil sampled two anomalous zones and rock chip sampled two other prospects. Assays failed to indicate any possible economic mineralisation and the ground was relinquished in 1981.

In 1981, the main Amoco anomaly (Mayberry) was pegged by Shell (EL 43/81). This area was gridded, mapped, soil sampled, rock chip sampled, traversed with IP and gravity. The soil geochemistry confirmed the Amoco anomaly while rock chip geochemistry showed uniform low Pb-Zn values. A percussion hole on the soil anomaly showed only low Pb-Zn values. The area was relinquished in 1983.

No further investigations were completed in the Mole Creek area until Placer Exploration obtained the ground in 1989.

GEOLOGY

The oldest rocks in the Licence area (Figure 2) are the siliceous sediments of the Moina Sandstone correlates occurring on Standard Hill. These coarse quartz rich sands to fine conglomerates form the core of an anticlinal structure.

Overlying the sandstone is a limestone succession in excess of 1100m thick. This is composed of oncolitic limestone, micrites, nodular limestone, fossiliferous red siltstones and black shale interbeds, calcarenites, dolomicrites, dolomitic calcisiltites, coralline calcirudites and an upper brown siltstone. The limestone succession is exposed in the limbs of the anticline where it forms topographic lows.

Overlying the upper siltstone unit of the Gordon Limestone is a sandstone horizon. This occurs to the north and south of the limestone at The Den and in the face of the Great Western Tiers. It is thought that this 200m thick fine sandstone unit is a correlate of the Siluvian Crotty Quartzite.

In the face of the Great Western Tiers the Siluvian sandstone is unconformably overlain by the relatively flat lying sediments of the Parmeener Supergroup and capped by a Jurassic Dolerite sill. Scree from the Great Western Tiers escarpment covers part of the Siluvian sandstone.

Parts of the Mole Creek area have small deposits of Quaternary sands and gravels.

Most of the geological information is summarised on Plan SK5503/506-6. (after Jennings & Burns, 1958).

7. CURRENT EXPLORATION

7.1 Techniques

EL 9/89 was acquired to cover areas of Ordovician sediments (particularly limestone) suitable for hosting Carlin style Au mineralisation.

A review of previous exploration data showed that although the area has been held under Exploration Licences intermittently since 1974 little gold exploration has occurred.

Initially Placer undertook broadly spaced drainage sampling. This sampling involved the taking of two samples from the major easily accessible drainages within the area. These samples were:

- a 5kg sample of -6mm active stream sediment for bulk cyanide leaching of extractable gold with additional silver and copper analyses.
- a 1kg conventional stream sediment sample for analysis of the -80 mesh fraction for Cu, Pb, Zn, Bi, As, Sb, Sn and Ag (for reference).

Anomalous sample sites were resampled for both sample types.

Confirmed anomalous drainages were further sampled with additional 5kg bulk leach samples and closer spaced 1kg stream sediment samples. Additionally, where the drainages were poorly defined (i.e. where streams flowed underground) the valley was traversed with lines of 25m spaced soil samples.

7.2 Results

The review of previous exploration data showed no detailed systematic exploration of the Mole Creek area has been completed. Despite exploring for Carlin style Au mineralisation Cygnatrex (1974) did not record any Au analyses. Weak spaced soil traverses located four basemetal anomalous zones which were soil and/or rock chip sampled. Poor results were obtained.

Amoco resampled these anomalies (1980) again with poor results. Shell re-gridded the Mayberry anomaly and completed brief soil and rock chip sampling, mapping, IP and gravity surveys before drilling a percussion hole into the main anomalous zones. Results were low and the ground was relinquished.

No Au analyses were reported by any previous exploration group.

The initial Placer drainage sampling programme showed:

- a 1.5 ppb bulk leach Au anomaly in Mole Creek (75 ppm Cu and 5.6 ppm Ag).
- a 1.8 ppb bulk leach Au anomaly in Marakoopa Creek (above Sensation Gorge).

Follow-up sampling of the anomalous drainages was undertaken. This involved -80# sampling all tributaries of the two creeks, just above creek intersections. In larger creeks bulk leach samples were also taken. In valleys where there was little evident surface drainage (except in flood periods) lines of soil samples were taken across the valley. Samples were also taken from around some sink holes.

Nineteen further bulk cyanide leach samples were taken (Sheet SK 5503/506-1 for location, Appendix I for analyses). Few of these were from the Mole Creek as most of this drainage

was underground upstream of the original samples. Samples from the Marakooopa Creek and its tributaries showed two weak anomalies.

- near Mayberry with a 0.8 ppb Au value.
- between Standard Hill and Solomons Dome with a 0.6 ppb Au value.

All other samples gave values of less than 0.4 ppb Au.

Silver and copper values generally tended to be low although samples near Mayberry gave up to 1.2 ppm copper and one sample draining Whistlers Bottom gave 3.4 ppm copper.

Of the further 70 soil and 80 stream sediment samples taken (Plan SK5503/506-1 for location, Appendix II and Plans 506-3, 506-4, 506-5 for analyses) only 4 stream sediment samples showed more than 0.1 ppm Au. The highest Au values (0.392 ppm from a sink hole in the Mole Creek drainage near Harrison's Road, 0.172/0.101 ppm from a dam near the outlet of Overflow Creek from Sensation Gorge and 0.161 ppm from a pond near a sinkhole above the Mersey Forest Road) were all associated with disappearing creeks and were isolated anomalies. No other anomalous geochemistry was associated with the sample, or adjacent samples. Similarly the anomalous value in one sample from Vanishing Creek (0.195/0.137 ppm Au) showed no other anomalous geochemistry and nor were adjacent samples anomalous.

Stream sediment samples in the western part of the Licence showed no anomalous base or precious metal values except for one stream sediment sample in the Erks Loop area with 540 ppm Zn. Similarly, in the Mayberry area the only anomalous values are zinc analyses (to 290 ppm in stream sediments). Many soil samples across the Mole Creek drainage (upstream of Mole Creek) showed anomalous zinc (up to 500 ppm). However, no other elements showed anomalous values. The elevated zinc values

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throughout the area may be a result of fertilisers (usually EZ-superphosphate) being used on the improved pasture of the area or from the earlier located lead/zinc rich veining.

7.3 Proposed Exploration

The results of the regional geochemical sampling and associated geological mapping located no significant anomalies in the area. Weak Au anomalies appear to be related to some concentrating effect in sink holes or ponds and are not supported by adjacent samples.

No further work is required and the area should be relinquished.

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8. REFERENCES

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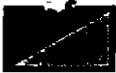
APPENDIX I

REGIONAL DRAINAGE GEOCHEMISTRY

BULK CYANIDE LEACH SAMPLE ANALYSES

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Telephone: (08) 43 5722 Fax: (08) 234 0321 Telex: LABCOM AA89323

Mr Peter Ellis
Placer Exploration Limited
P.O. BOX 384
ROSNY PARK
TAS 7018

Job Number: 9AD3260

Your Reference: 1469
Number of Samples: 19
Extra Samples : 0

Date Received: 23-NOV-1989
Date Reported: 29-NOV-1989

This report comprises a cover sheet and pages 1 to 1

This report relates specifically to the samples tested in so far as that the samples as supplied are truly representative of the sample source. Please address any enquiries to Mr. Trevor Francis.

Approved Signature:

for 

Dr. John Kikkert
General Manager - Adelaide.

CC Placer Exploration Sydney

Report Analyte Codes:
N.A. - Not Analysed.
L.N.R. - Listed But Not Received.
I.S. - Insufficient Sample for
Analysis.

Distribution Codes:
CC - Carbon Copy
EM - Electronic Media
MM - Magnetic Media

022



CLASSIC COMLABS LTD

Analytical Laboratories (INC IN WA)

474023

Job: 9AD3260

O/N: 1469

ANALYTICAL REPORT

Sample	Cu	Ag	Au
701009 ✓	0.2	<0.02	<0.05 ✓
701012 ✓	0.1	0.02	0.40 ✓
701014 ✓	0.1	0.02	0.15 ✓
701018 ✓	0.1	<0.02	0.60 ✓
701023 ✓	1.2	0.02	0.15 ✓
701025 ✓	0.8	0.04	0.30 ✓
701027 ✓	0.4	<0.02	0.20 ✓
701029 ✓	0.8	0.02	<0.05 ✓
701032 ✓	0.3	<0.02	0.05 ✓
701034 ✓	0.5	<0.02	0.80 ✓
701038 ✓	0.8	<0.02	0.40 ✓
701043 ✓	0.2	<0.02	<0.05 ✓
701101 ✓	0.2	<0.02	0.20 ✓
701103 ✓	0.2	<0.02	0.35 ✓
701105 ✓	1.9	0.02	0.10 ✓
701108 ✓	0.1	<0.02	<0.05 ✓
701110 ✓	0.4	<0.02	0.05 ✓
701119 ✓	0.3	<0.02	<0.05 ✓
701121 ✓	3.4	0.02	<0.05 ✓

Units	ppm	ppm	ppb
Detn Limit	0.1	0.02	0.05
Scheme	BLEG1C	BLEG1C	BLEG2

701009	75	5.6	1.5
701025	x	3	1.5

APPENDIX II

REGIONAL DRAINAGE GEOCHEMISTRY

STREAM SEDIMENT/SOIL SAMPLE ANALYSES

ANALABS

474025

Phone (09) 458 7999

A division of MacDonald Hamilton & Co. Pty. Ltd.
52 Murray Road, Welshpool, W.A. 6106
FAX: 008 31 8890

Telex AA92560

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ANALYTICAL REPORT No. 999.52.08.06636

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

P.D. Ellis
Placer Exploration Ltd.
479 Oceana Drive
Howrah
Tasmania 7018

ORDER No.	PROJECT
467	Hole Creek
DATE RECEIVED	RESULTS REQUIRED
08/11/89	ASAP

No. OF PAGES OF RESULTS	DATE REPORTED	No. OF COPIES	TOTAL No. OF SAMPLES
14	30/11/89	1	154

STATE OF SAMPLES REFER BELOW	SAMPLE NUMBERS	PRE-TREATMENT							ANALYSIS				
		DRY	CRUSH	SPLIT	PUL-VERISE	SIEVE	OTHER SEE REMARKS	NONE	REFER TO ANALYSIS SECTION	PREPARATION	METHC		
Various		SS	Prep: 005	016							Cu, Pb, Zn, Ag/102		
Various		SS	Prep: 005	016							Au, AuChk/309		
Various		SS	Prep: 005	016							As/114		
Various		SS	Prep: 005	016							Ag, Pb, Cu, Zn/101		
Various		SS	Prep: 005	016							As/101		

RESULTS TO	P.D. Ellis Placer Exploration Ltd. 479 Oceana Drive Howrah Tasmania 7018	REMARKS

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

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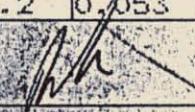
SAMPLE PREFIX REPORT NUMBER REPORT DATE CLIENT ORDER No. PAGE

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TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Au
1	701001	345	338	160	106	4400	4450	5.0	1.6	0.970
✓2	701002	-	8	-	22	-	25	-	0.3	0.026 ✓
✓3	701003	50	38	90	73	490	540	1.5	0.4	0.010 ✓
4	701004	-	14	-	14	-	71	-	0.2	0.008 ✓
5	701005	-	15	-	2	-	34	-	0.2	0.095 ✓
6	701006	-	30	-	28	-	131	-	0.1	0.039 ✓
7	701007	-	27	-	17	-	86	-	0.1	0.030 ✓
8	701008	-	25	-	12	-	104	-	0.2	0.043 ✓
9	701010	-	19	-	2	-	51	-	0.1	0.012 ✓
10	701011	-	8	-	4	-	6	-	0.2	0.010
11	701013	-	14	-	4	-	76	-	0.1	0.008 ✓
12	701015	20	16	40	35	180	204	0.5	0.2	0.072 ✓
13	701016	-	8	-	<1	-	17	-	0.1	0.065 ✓
14	701017	-	8	-	2	-	7	-	0.2	0.080 ✓
15	701019	-	7	-	2	-	7	-	0.1	0.061 ✓
16	701020	-	10	-	5	-	11	-	0.2	0.061 ✓
17	701021	-	8	-	3	-	8	-	0.1	0.023 ✓
18	701022	-	9	-	1	-	12	-	0.1	0.082 ✓
19	701024	-	13	-	16	-	65	-	0.1	0.058 ✓
20	701026	-	18	-	26	-	89	-	0.3	0.058 ✓
21	701028	-	12	-	7	-	70	-	0.2	0.042 ✓
22	701030	-	21	-	68	-	290	-	0.1	0.034 ✓
23	701033	-	12	-	4	-	61	-	0.1	0.032 ✓
24	701035	-	12	-	17	-	79	-	0.1	0.066 ✓
25	701037	-	15	-	<1	-	9	-	0.2	0.053

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

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TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Au
1	701039	-	8	-	4	-	77	-	0.1	0.047 ✓
2	701040	-	15	-	1	-	37	-	0.2	0.045 ✓
3	701041	-	20	-	11	-	79	-	0.2	0.067 ✓
4	701042	-	12	-	7	-	66	-	0.2	0.034 ✓
5	701044	-	87	-	13	-	53	-	0.4	0.117 ✓
6	701045	-	13	-	2	-	30	-	0.1	0.071 ✓
7	701046 ✓	-	11	-	<1	-	45	-	0.2	0.041 ✓
8	701047	-	15	-	1	-	26	-	0.1	0.038 ✓
9	701048	-	12	-	1	-	33	-	0.2	0.029 ✓
10	701049	-	16	-	18	-	54	-	0.1	0.037 ✓
11	701051	-	23	-	29	-	63	-	0.3	0.074 ✓
12	701052	-	20	-	14	-	37	-	0.1	0.042 ✓
13	701053	-	24	-	29	-	125	-	0.2	0.038 ✓
14	701054	-	35	-	20	-	37	-	0.1	0.161 ✓
15	701055	-	21	-	14	-	78	-	0.2	0.035 ✓
16	701056	-	19	-	1	-	23	-	0.2	0.035 ✓
17	701057	-	13	-	2	-	62	-	0.2	0.024 ✓
18	701058	-	11	-	<1	-	21	-	0.1	0.024 ✓
19	701059	-	12	-	2	-	124	-	0.2	0.075 ✓
20	701060	-	16	-	9	-	53	-	0.1	0.041 ✓
21	701061	-	10	-	<1	-	11	-	0.2	0.053 ✓
22	701062	-	11	-	17	-	11	-	0.1	0.055 ✓
23	701063	-	10	-	3	-	13	-	0.1	0.041 ✓
24	701065	-	13	-	10	-	28	-	0.1	0.031 ✓
25	701066	-	21	-	24	-	66	-	0.2	0.032 ✓

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

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TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Au
1	701067	-	12	-	11	-	26	-	0.1	0.034 ✓
2	701068	-	14	-	13	-	35	-	0.2	0.028 ✓
3	701069	-	13	-	12	-	30	-	0.2	0.036 ✓
4	701070	-	15	-	18	-	34	-	0.2	0.036 ✓
5	701071	-	12	-	11	-	30	-	0.1	0.029 ✓
6	701072	-	21	-	18	-	57	-	0.2	0.068 ✓
7	701073	-	16	-	19	-	67	-	0.2	0.028 ✓
8	701074	-	12	-	13	-	32	-	0.1	0.033 ✓
9	701075	-	21	-	33	-	140	-	0.2	0.045 ✓
10	701076	-	15	-	22	-	56	-	0.2	0.046 ✓
11	701077	-	11	-	5	-	31	-	0.2	0.041 ✓
12	701078	-	13	-	<1	-	23	-	0.1	0.037 ✓
13	701079	-	16	-	22	-	76	-	<0.1	0.024 ✓
14	701080	-	8	-	<1	-	8	-	0.3	0.039 ✓
15	701081	-	8	-	9	-	23	-	0.3	0.078 ✓
16	701082	-	17	-	31	-	22	-	0.1	0.060 ✓
17	701084	-	12	-	11	-	18	-	0.1	0.031 ✓
18	701085	-	11	-	9	-	14	-	0.2	0.018 ✓
19	701086	-	11	-	2	-	14	-	0.2	0.012 ✓
20	701087	-	20	-	31	-	26	-	0.1	0.025 ✓
21	701088	-	16	-	41	-	27	-	0.2	0.172 ✓
22	701089	-	15	-	12	-	50	-	0.2	0.023 ✓
23	701090	-	12	-	7	-	30	-	0.2	0.022 ✓
24	701091	355	356	150	142	4455	4550	5.5	4.9	1.310 ✓
25	701092	-	8	-	6	-	80	-	0.2	<0.008 ✓

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

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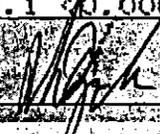
1467

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TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Au
1	701093	-	20	-	16	-	79	-	0.1	<0.008
2	701094	-	16	-	11	-	43	-	0.1	<0.008
3	701095	-	9	-	<1	-	38	-	0.2	<0.008
4	701096	-	32	-	52	-	179	-	0.1	<0.008
5	701097	-	10	-	10	-	50	-	0.2	<0.008
6	701098	-	11	-	14	-	74	-	0.1	<0.008
7	701099	-	22	-	19	-	121	-	0.2	<0.008
8	701102	-	12	-	2	-	37	-	0.2	<0.008
9	701104	-	11	-	1	-	30	-	0.2	<0.008
10	701106	-	17	-	18	-	57	-	0.1	<0.008
11	701107	-	34	-	11	-	35	-	0.1	0.011
12	701109	-	13	-	1	-	26	-	<0.1	0.038
13	701111	-	30	-	19	-	117	-	<0.1	0.011
14	701112	-	19	-	10	-	62	-	0.1	<0.008
15	701113	-	27	-	34	-	114	-	0.1	<0.008
16	701114	-	14	-	17	-	70	-	<0.1	<0.008
17	701115	-	12	-	10	-	35	-	<0.1	<0.008
18	701116	-	20	-	29	-	148	-	<0.1	0.008
19	701117	-	12	-	24	-	65	-	<0.1	<0.008
20	701120	-	40	-	23	-	126	-	<0.1	<0.008
21	701122	-	22	-	14	-	59	-	<0.1	<0.008
22	701123	-	56	-	22	-	188	-	<0.1	0.020
23	701124	-	44	-	8	-	108	-	<0.1	0.016
24	701125	-	18	-	32	-	122	-	0.1	<0.008
25	701126	-	13	-	31	-	71	-	<0.1	<0.008

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

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A Division of Incharge Inspection and Testing Services Australia Pty. Ltd.

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TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Au
1	701127	-	16	-	30	-	70	-	0.2	<0.008
2	701128	-	16	-	30	-	106	-	<0.1	<0.008
3	701129	-	20	-	29	-	320	-	0.2	0.016
4	701130	-	16	-	30	-	340	-	0.1	0.013
5	701131	-	29	-	51	-	370	-	0.1	<0.008
6	701132	-	13	-	15	-	59	-	0.1	<0.008
7	701133	-	17	-	36	-	94	-	0.1	<0.008
8	701134	-	28	-	53	-	110	-	0.1	0.030
9	701135	-	32	-	25	-	186	-	0.1	0.022
10	701136	-	28	-	29	-	172	-	0.2	0.392
11	701137	-	18	-	33	-	74	-	0.2	0.011
12	701138	-	18	-	32	-	67	-	0.2	0.037
13	701139	-	15	-	27	-	66	-	0.2	<0.008
14	701140	-	12	-	25	-	50	-	0.2	<0.008
15	701141	-	19	-	30	-	70	-	0.2	0.057
16	701142	-	16	-	29	-	65	-	0.2	<0.008
17	701143	-	11	-	19	-	45	-	0.2	<0.008
18	701144	-	21	-	27	-	147	-	0.1	0.021
19	701145	-	22	-	67	-	153	-	0.1	0.013
20	701146	35	26	65	49	475	500	0.5	0.1	0.012
21	701147	20	25	45	35	325	340	<0.5	<0.1	0.020
22	701148	-	16	-	35	-	112	-	<0.1	0.017
23	701149	-	13	-	25	-	85	-	0.3	0.015
24	701150	-	17	-	30	-	112	-	0.2	0.012
25	701151	30	30	50	45	200	235	<0.5	0.4	0.021

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

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TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Au
1	701152	40	33	45	30	240	257	<0.5	0.3	0.055
2	701153	-	34	-	35	-	177	-	0.5	0.025
3	701154	-	22	-	30	-	128	-	0.2	0.019
4	701155	-	19	-	25	-	164	-	0.1	0.013
5	701156	-	15	-	15	-	110	-	0.1	0.037
6	701157	-	14	-	20	-	120	-	0.1	0.012
7	701158	-	11	-	20	-	54	-	<0.1	0.011
8	701159	-	11	-	20	-	58	-	<0.1	<0.008
9	701160	-	9	-	5	-	47	-	<0.1	0.016
10	701161	-	15	-	35	-	116	-	<0.1	0.014
11	701162	-	11	-	20	-	53	-	<0.1	0.010
12	701163	-	10	-	20	-	61	-	<0.1	0.010
13	701164	-	11	-	10	-	66	-	<0.1	0.014
14	701165	-	6	-	5	-	32	-	<0.1	<0.008
15	701167	-	12	-	50	-	190	-	<0.1	<0.008
16	701168	-	11	-	100	-	127	-	<0.1	<0.008
17	701169	-	7	-	55	-	127	-	<0.1	<0.008
18	701170	25	15	140	140	360	380	<0.5	0.1	<0.008
19	701171	-	9	-	70	-	180	-	<0.1	<0.008
20	701172	20	16	125	110	255	285	<0.5	<0.1	<0.008
21	701173	-	7	-	20	-	87	-	<0.1	<0.008
22	701174	-	7	-	70	-	144	-	<0.1	<0.008
23	701175	-	7	-	55	-	110	-	<0.1	<0.008
24	701176	-	5	-	15	-	31	-	<0.1	<0.008
25	701177	-	10	-	35	-	139	-	<0.1	<0.008

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

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031

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TUBE No.	SAMPLE No.	Cu	Cu	Pb	Pb	Zn	Zn	Ag	Ag	Au
1	701178	-	5	-	20	-	79	-	<0.1	<0.008
2	701179	-	15	-	15	-	49	-	<0.1	<0.008
3	701180	-	15	-	35	-	109	-	<0.1	<0.008
4	701181	-	14	-	20	-	46	-	<0.1	<0.008
5										
6										
7										
8										
9										
10										
11										
12	272796		12		18		60		x	x
13	272798		8		10		65		x	0.03
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	5	1	5	1	5	1	0.5	0.1	0.008
24	UNITS	ppm	ppm							
25	METHOD	101	102	101	102	101	102	101	102	109

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

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TUBE No.	SAMPLE No.	AuChk	As	As					
1	701001	-	-	SNR					
2	701002	-	-	4					
3	701003	-	-	2					
4	701004	-	-	1					
5	701005	0.137	-	3					
6	701006	-	-	4					
7	701007	-	-	<1					
8	701008	-	-	2					
9	701010	-	-	1					
10	701011	-	-	<1					
11	701013	-	-	1					
12	701015	-	-	2					
13	701016	-	-	<1					
14	701017	<0.008	-	3					
15	701019	-	-	4					
16	701020	0.063	-	<1					
17	701021	-	-	1					
18	701022	-	-	2					
19	701024	-	-	6					
20	701026	-	-	2					
21	701028	-	-	3					
22	701030	-	-	7					
23	701033	-	-	1					
24	701035	-	-	6					
25	701037	-	-	1					

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

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TUBE No.	SAMPLE No.	AuChk	As	As					
1	701039	-	-	2 ✓					
2	701040	-	-	1 ✓					
3	701041	-	-	3 ✓					
4	701042	-	-	<1 ✓					
5	701044	-	-	6 ✓					
6	701045	-	-	1 ✓					
7	701046	0.027	-	<1 ✓					
8	701047	-	-	<1 ✓					
9	701048	-	-	3 ✓					
10	701049	-	-	6 ✓					
11	701051	-	-	1 ✓					
12	701052	-	-	<1 ✓					
13	701053	-	-	2 ✓					
14	701054	-	-	2 ✓					
15	701055	<0.008	-	3 ✓					
16	701056	<0.008	-	<1 ✓					
17	701057	-	-	1 ✓					
18	701058	-	-	<1 ✓					
19	701059	-	-	<1 ✓					
20	701060	-	-	1 ✓					
21	701061	-	-	4 ✓					
22	701062	-	-	<1 ✓					
23	701063	0.069	-	<1 ✓					
24	701065	-	-	<1 ✓					
25	701066	-	-	6 ✓					

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

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034

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TUBE No.	SAMPLE No.	AuChk	As	As					
1	701067	-	-	2 ✓					
2	701068	0.008	-	2 ✓					
3	701069	-	-	1 ✓					
4	701070	-	-	2 ✓					
5	701071	-	-	1 ✓					
6	701072	-	-	1 ✓					
7	701073	-	-	3 ✓					
8	701074	-	-	1 ✓					
9	701075	-	-	8 ✓					
10	701076	-	-	4 ✓					
11	701077	-	-	2 ✓					
12	701078	0.041	-	<1 ✓					
13	701079	-	-	7 ✓					
14	701080	0.010	-	<1 ✓					
15	701081	-	-	1 ✓					
16	701082	-	-	4 ✓					
17	701084	-	-	<1 ✓					
18	701085	-	-	<1 ✓					
19	701086	<0.008	-	<1 ✓					
20	701087	-	-	33 ✓					
21	701088	0.101	-	3 ✓					
22	701089	-	-	2 ✓					
23	701090	-	-	1 ✓					
24	701091	-	600	>100 ✓					
25	701092	-	-	2 ✓					

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

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474035

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TUBE No.	SAMPLE No.	AuChk	Ag	As						
1	701093	-	-	2 ✓						
2	701094	-	-	<1 ✓						
3	701095	-	-	<1 ✓						
4	701096	-	-	B ✓						
5	701097	0.010	-	2 ✓						
6	701098	-	-	1 ✓						
7	701099	-	-	<1 ✓						
8	701102	-	-	1 ✓						
9	701104	-	-	3 ✓						
10	701106	-	-	<1 ✓						
11	701107	-	-	<1 ✓						
12	701109	-	-	<1 ✓						
13	701111	-	-	4 ✓						
14	701112	-	-	<1 ✓						
15	701113	-	-	3 ✓						
16	701114	-	-	1 ✓						
17	701115	-	-	2 ✓						
18	701116	-	-	4 ✓						
19	701117	<0.008	-	1 ✓						
20	701120	-	-	2 ✓						
21	701122	<0.008	-	1 ✓						
22	701123	-	-	2 ✓						
23	701124	-	-	1 ✓						
24	701125	-	-	<1 ✓						
25	701126	-	-	3 ✓						

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

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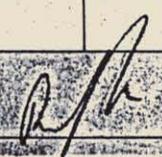
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TUBE No.	SAMPLE No.	AuChk	As	As					
1	701127	-	-	5 ✓					
2	701128	-	-	3 ✓					
3	701129	-	-	5 ✓					
4	701130	-	-	4 ✓					
5	701131	-	-	4 ✓					
6	701132	-	-	1 ✓					
7	701133	-	-	2 ✓					
8	701134	-	-	1 ✓					
9	701135	-	-	2 ✓					
10	701136	-	-	<1 ✓					
11	701137	-	-	2 ✓					
12	701138	-	-	1 ✓					
13	701139	-	-	2 ✓					
14	701140	-	-	2 ✓					
15	701141	-	-	1 ✓					
16	701142	-	-	2 ✓					
17	701143	<0.008	-	<1 ✓					
18	701144	-	-	1 ✓					
19	701145	-	-	4 ✓					
20	701146	-	-	1 ✓					
21	701147	-	-	1 ✓					
22	701148	-	-	3 ✓					
23	701149	-	-	3 ✓					
24	701150	-	-	3 ✓					
25	701151	-	-	4 ✓					

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

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TUBE No.	SAMPLE No.	AlChk	As	As					
1	701152	-	-	6	✓				
2	701153	-	-	5	✓				
3	701154	<0.008	-	2	✓				
4	701155	-	-	1	✓				
5	701156	-	-	<1	✓				
6	701157	-	-	1	✓				
7	701158	-	-	3	✓				
8	701159	-	-	2	✓				
9	701160	-	-	<1	✓				
10	701161	<0.008	-	2	✓				
11	701162	-	-	2	✓				
12	701163	-	-	6	✓				
13	701164	-	-	<1	✓				
14	701165	-	-	<1	✓				
15	701167	<0.008	-	<1	✓				
16	701168	-	-	3	✓				
17	701169	-	-	1	✓				
18	701170	-	-	4	✓				
19	701171	0.021	-	3	✓				
20	701172	-	-	5	✓				
21	701173	-	-	1	✓				
22	701174	<0.008	-	2	✓				
23	701175	-	-	1	✓				
24	701176	-	-	<1	✓				
25	701177	-	-	2	✓				

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

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038

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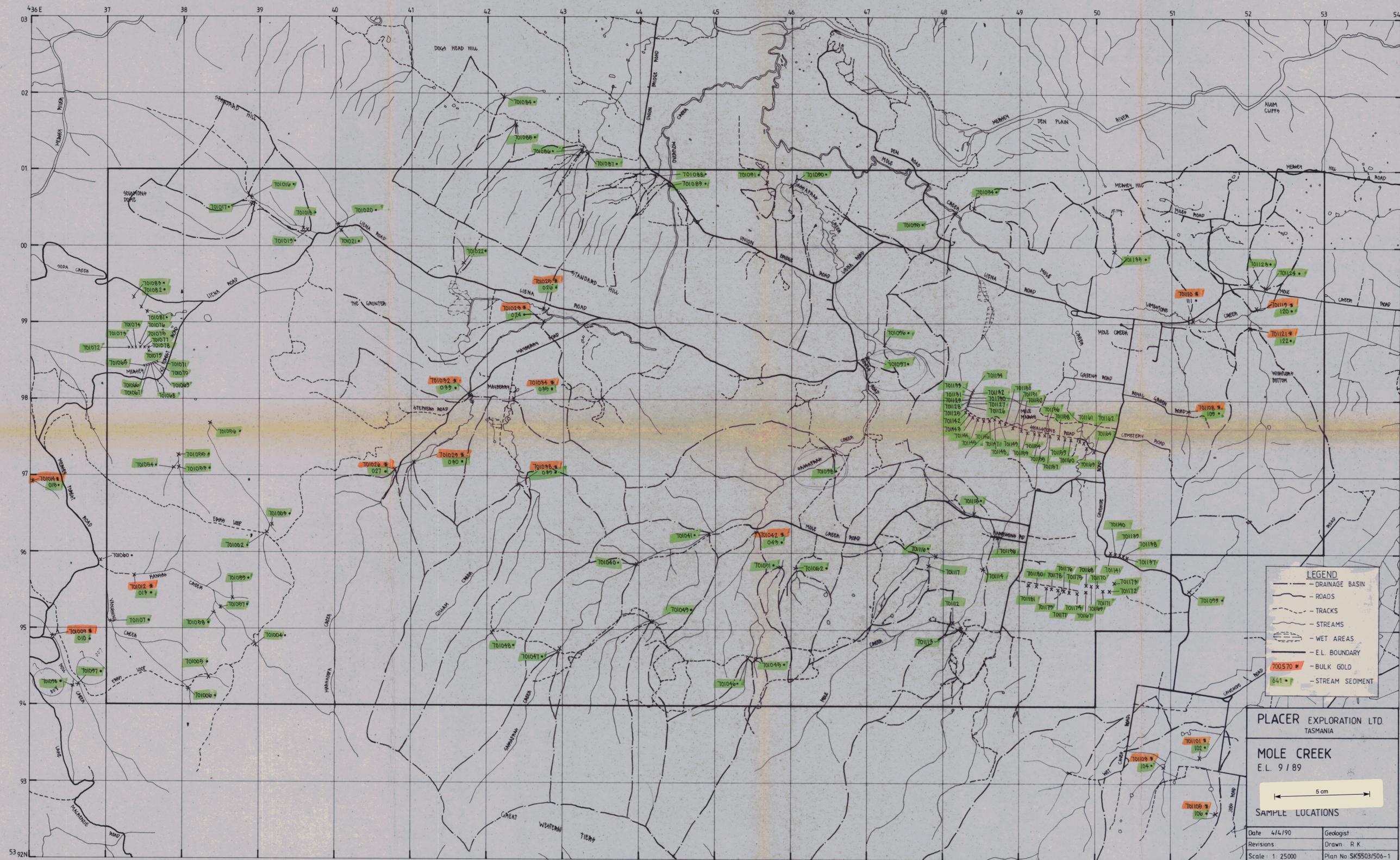
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TUBE No.	SAMPLE No.	AuChk	As	As						
1	701178	-	-	<1						
2	701179	-	-	<1						
3	701180	-	-	3						
4	701181	-	-	<1						
5										
6										
7										
8										
9										
10										
11					Sb	Sn				
12	272796			9	x	u				
13	272798			5	6	6				
14										
15										
16										
17										
18										
19										
20										
21										
22										
23	DETECTION	0.008	100	1						
24	UNITS	ppm	ppm	ppm						
25	METHOD	309	101	114						

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

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474039



LEGEND

- DRAINAGE BASIN
- ROADS
- TRACKS
- STREAMS
- WET AREAS
- E.L. BOUNDARY
- 700570 - BULK GOLD
- 641 - STREAM SEDIMENT

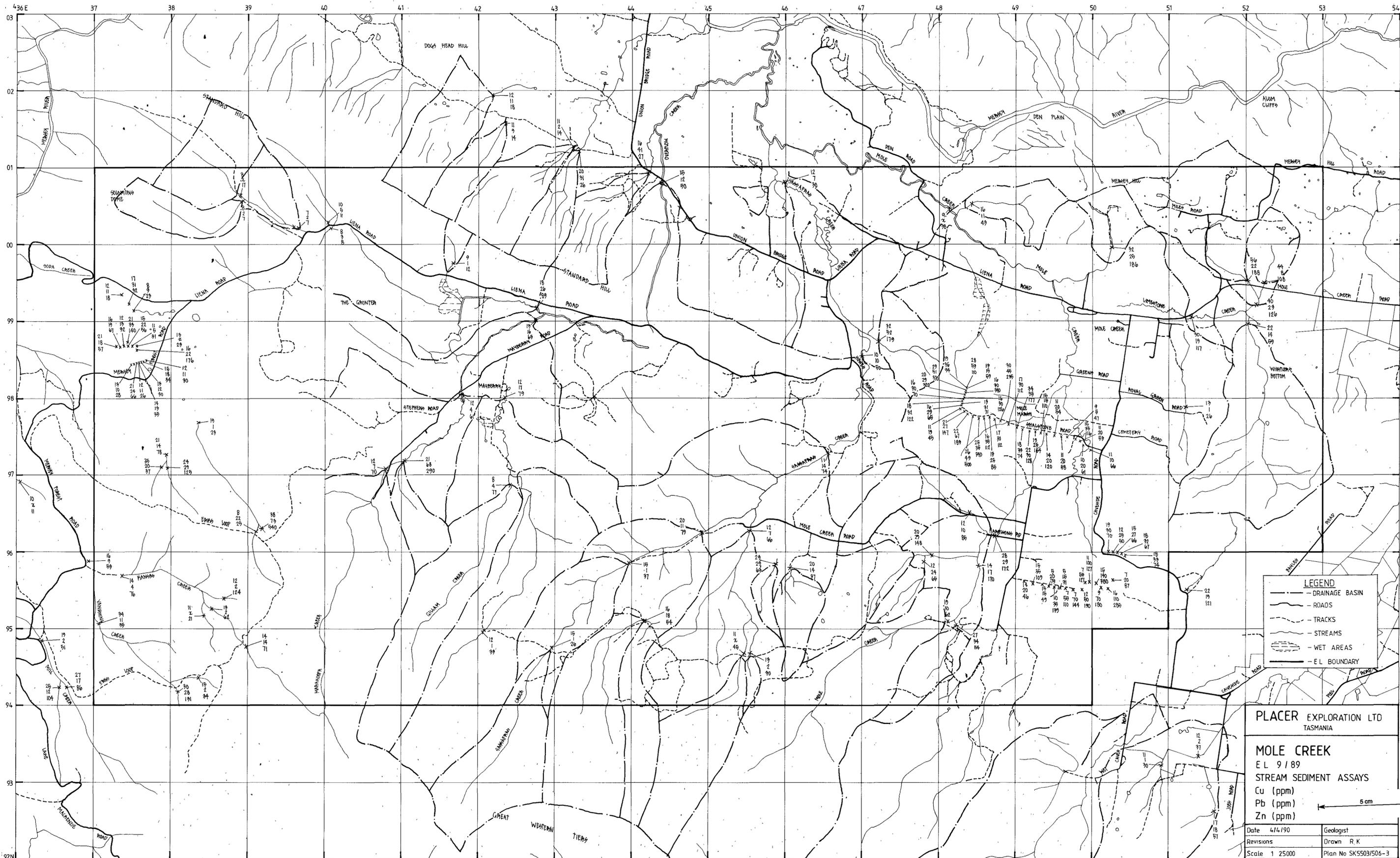
PLACER EXPLORATION LTD.
TASMANIA

MOLE CREEK
E.L. 9/89

5 cm

SAMPLE LOCATIONS

Date 4/4/90	Geologist
Revisions	Drawn R.K.
Scale 1: 25000	Plan No SK5503/506-1



LEGEND

- DRAINAGE BASIN
- ROADS
- - - TRACKS
- ~ ~ ~ STREAMS
- WET AREAS
- E.L. BOUNDARY

PLACER EXPLORATION LTD
TASMANIA

MOLE CREEK
E.L. 9/89
STREAM SEDIMENT ASSAYS

Cu (ppm)
Pb (ppm)
Zn (ppm)

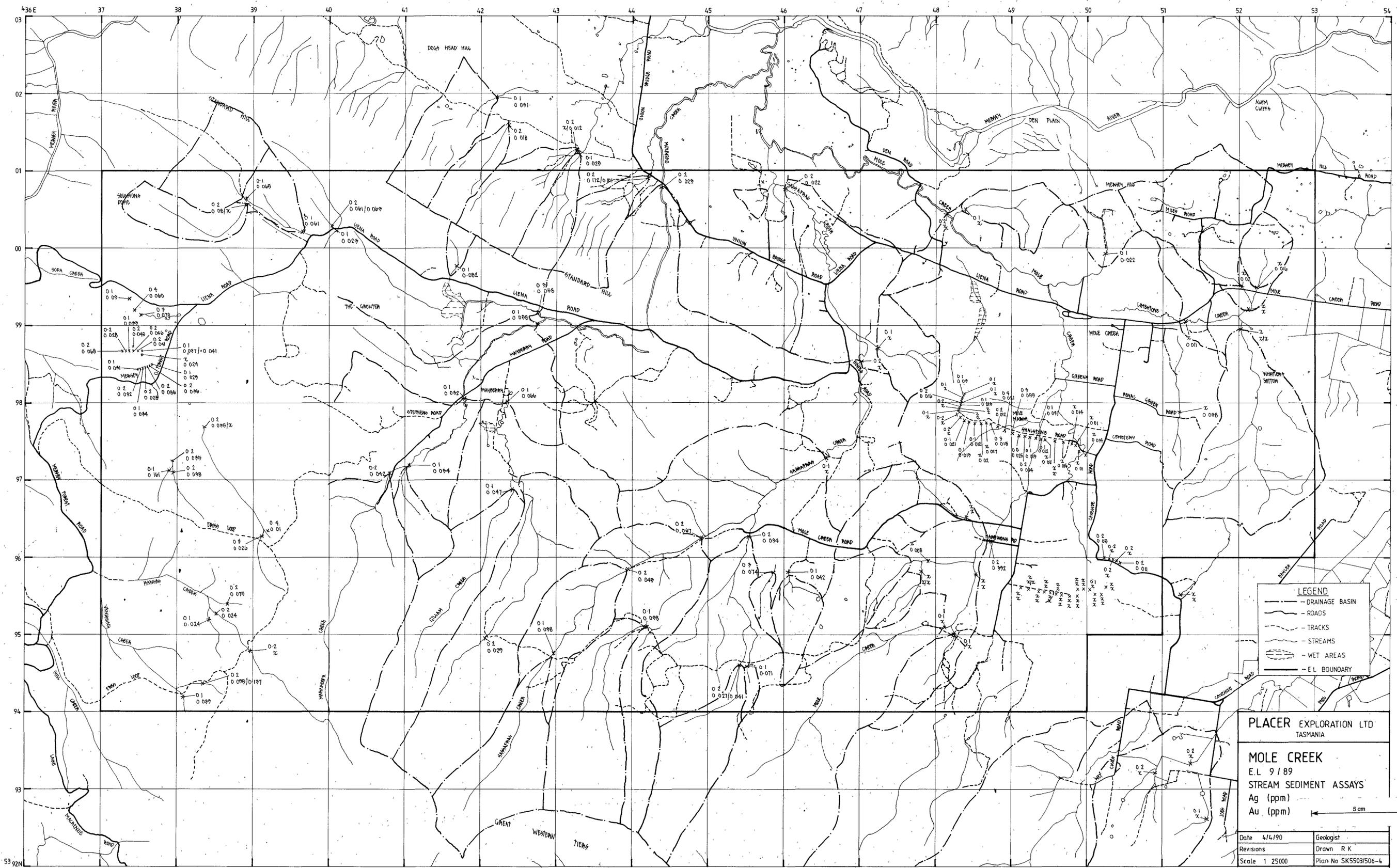
Scale 1:25000

Date 4/1/89	Geologist
Revisions	Drawn R.K.
	Plan No SK5503/506-3

5 cm

474042

90-3144.

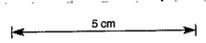


LEGEND

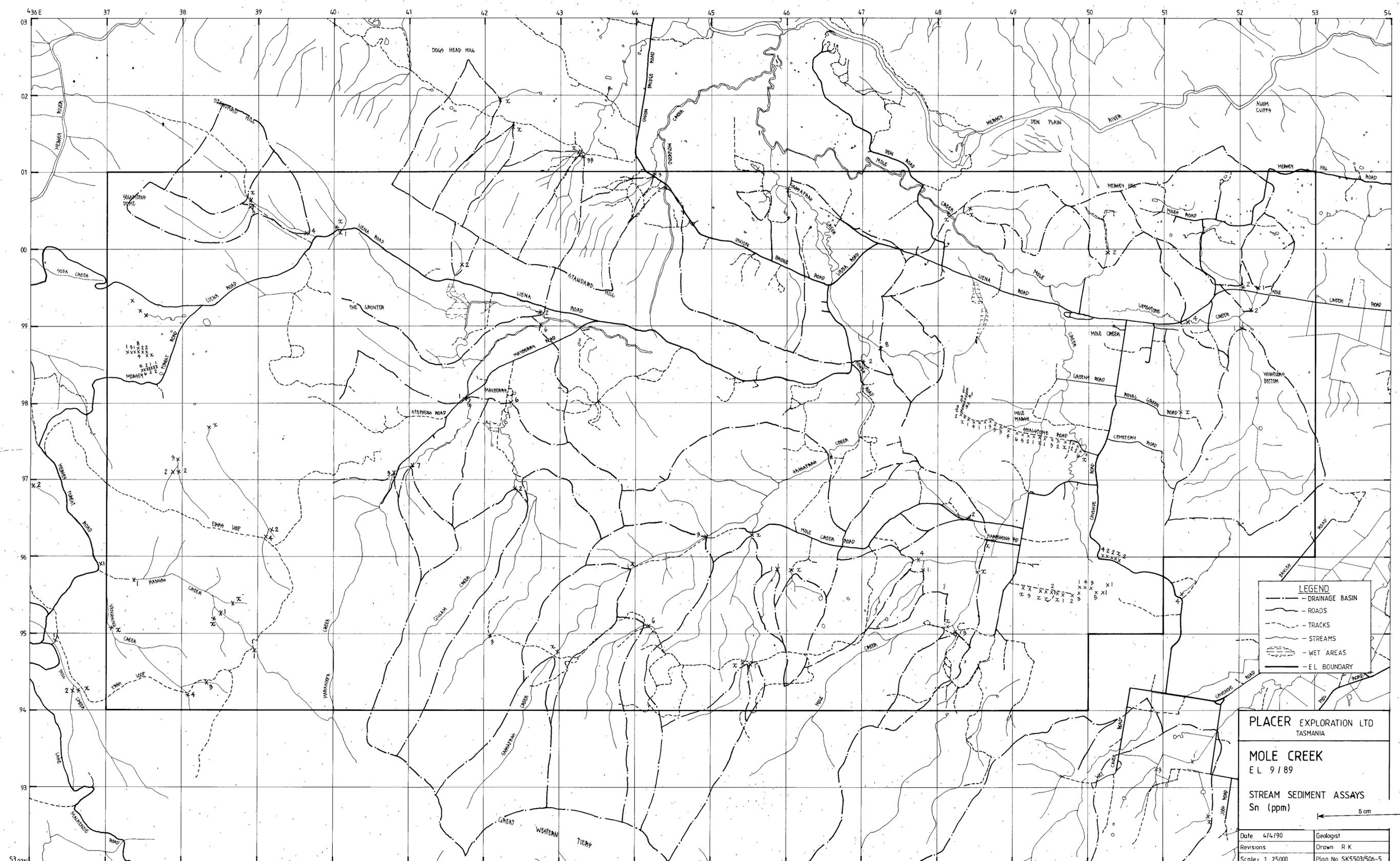
- DRAINAGE BASIN
- ROADS
- - - TRACKS
- - - STREAMS
- WET AREAS
- - - E.L. BOUNDARY

PLACER EXPLORATION LTD
TASMANIA

MOLE CREEK
E.L. 9189
STREAM SEDIMENT ASSAYS
Ag (ppm)
Au (ppm)



Date 4/4/90	Geologist
Revisions	Drawn R.K.
Scale 1:25000	Plan No SK5503/506-4



LEGEND

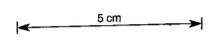
- - - DRAINAGE BASIN
- ROADS
- - - TRACKS
- - - STREAMS
- - - WET AREAS
- - - E.L. BOUNDARY

PLACER EXPLORATION LTD
TASMANIA

MOLE CREEK
E.L. 9/89

STREAM SEDIMENT ASSAYS
Sn (ppm)

Date 4/4/90 Geologist
Revisions Drawn R.K.
Scale 1:25000 Plan No SK5503/506-5

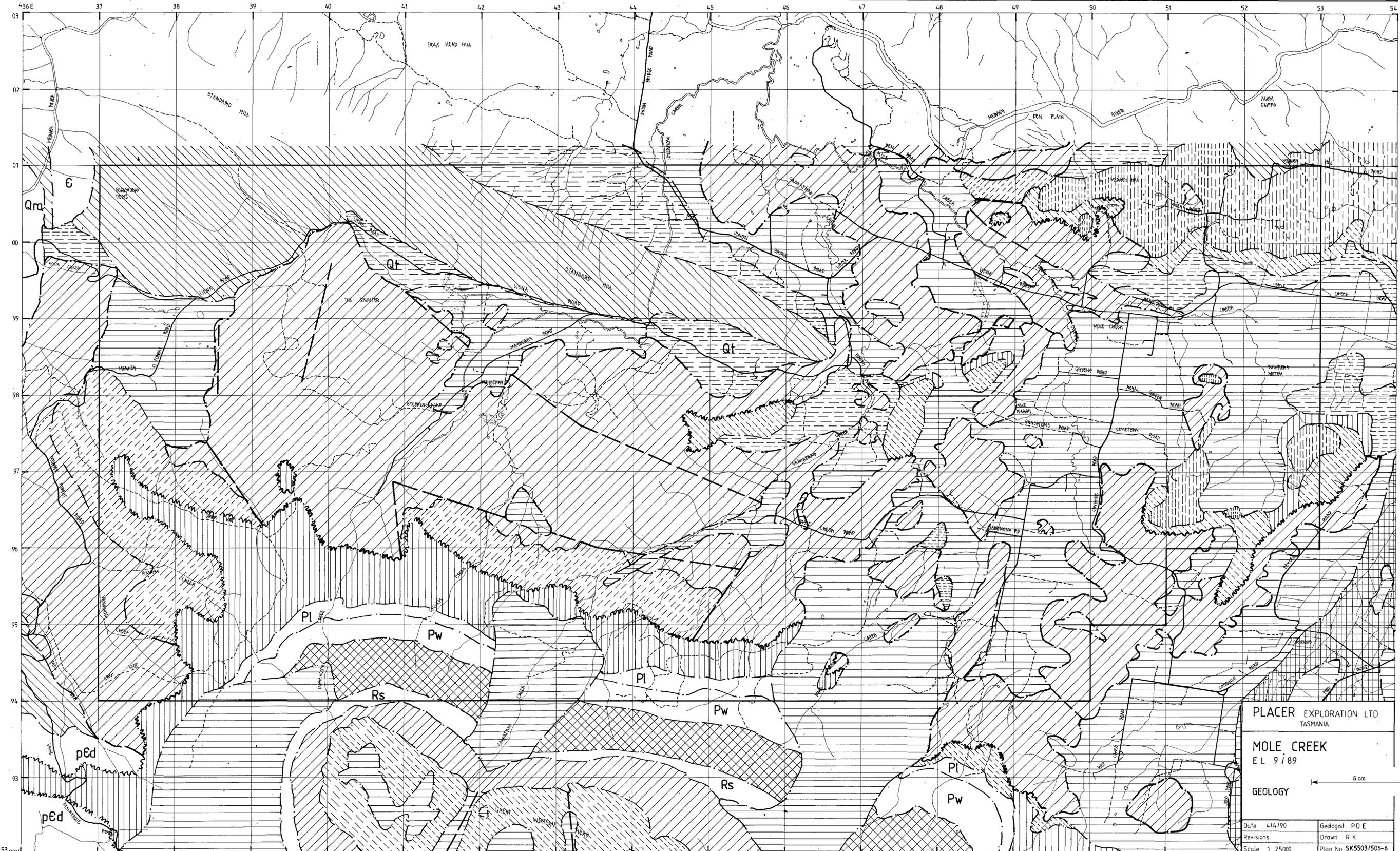


471044

90-3144.

LEGEND

<p>Recent Alluvium</p> <p>Dolerite scree fields</p> <p>Quartzitic talus</p> <p>Fluvioglacial deposits, fill and alluvium</p> <p>Till, talus, marsh deposits and residual gravels</p> <p>Ross sandstones</p> <p>Tertiary Basalt</p> <p>JURASSIC Dolerite</p>	<p>PERMIAN</p> <p>PALAEZOIC</p> <p>SILURIAN</p> <p>ORDOVICIAN</p> <p>CAMBRIAN</p> <p>Pre-Cambrian</p>	<p>Ferntree mudstones and Cygnet coal measures</p> <p>Woodbridge glacial</p> <p>Liffey sandstones and shales</p> <p>Kansas Creek beds</p> <p>Eldon group</p> <p>Gordon limestone</p> <p>Maina sandstone</p> <p>Unassigned</p> <p>Dove group</p>	<p>ROADS</p> <p>TRACKS</p> <p>STREAMS</p> <p>WET AREAS</p> <p>E.L. BOUNDARY</p> <p>GEOLOGICAL BOUNDARY</p> <p>UNCONFORMITY</p> <p>LINEARS INTERPRETED FROM AIR PHOTOS</p>
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MOLE CREEK
E.L. 9 / 89

GEOLOGY

Scale 1:25000

Date 4/14/90 Geologist P D E
Revisions Drawn R K
Plan No SK5503/506-6