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LEFROY GOLD MINES PTY LTD
(A subsidiary of Central Kalgoorlie Gold Mines NL)

BELL BAY EL21/94 & PIPERS RIVER EL22/94
NE TASMANIA

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J.G. Purvis & Associates Pty Ltd
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EL21/94 & 22/94 - NE TAS.
LEFROY GOLD MINES-J.G. PURVIS

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1. SUMMARY

Exploration on **Bell Bay EL21/94** and **Pipers River EL22/94** continued at a modest level during the 1995-96 year, with the focus of activity on the adjacent Lefroy EL1/95.

Work completed on Bell Bay and Pipers River included detailed stream sediment follow-up of BLEG gold anomalies. The survey yielded poor results, except for Londonderry Creek on EL21/94 where values to 106 ppb Au were obtained.

This led to a large programme of gridding and soil sampling in this catchment, which outlined two anomalous zones up to 750m long with a peak value of 92 ppb Au. The zones are oriented at right angles to the known auriferous quartz reefs in the area and may be lithologically controlled. Rocks from the dump of the largest working, the Monarch, included altered non-quartz-veined sediments assaying to 2.1 g/t Au. A small programme of RAB drilling is recommended to test the gold potential of the altered sediments here.

East of Monarch Hill, 1500m of the Volunteer Hill Grid (centred on EL1/95) extended onto the Bell Bay EL. Rock sampling, mapping and a High Definition ground magnetic survey were completed over the grid. There were no rock sample results of significance within EL21/94. The magnetics and mapping are still being compiled.

Reconnaissance soil and rock sampling in the vicinity of the Native Industry Mine (Bell Bay EL) detected negligible gold values.

Other activities on the EL's included further interpretation of the Landsat and aeromagnetic data, and discussions with ML holders for access at Back Creek and at the Native Industry Mine.

For 1996-97, soil sampling traverses are proposed to test gold anomalies remaining from the drainage sampling, principally in catchments along the western side of the Den Ranges and in the Baker Tier area. Systematic soil and rock sampling is planned for Back Creek once agreement is reached with the ML holders.

A High Definition aeromagnetic survey has been recommended for both EL's to delineate the hydrothermally altered zones associated with the gold mineralization.

2. INTRODUCTION

In 1994 the Tasmanian Government promoted the prospectivity of the lightly-held and poorly-tested NE Tasmanian Gold Province, via the NETGOLD Project.

The Lefroy Goldfield, 12 km east of George Town on the north coast of Tasmania and with recorded production of 187,000 oz gold, was perceived by CKGM to be one of the most prospective parts of the province, partly because of the lack of modern systematic exploration there. Lefroy is considered to have potential for bulk low grade open-cuttable gold deposits, as well as high-grade quartz vein-hosted gold either as extensions of the past producers or in newly discovered reefs.

Initially, only the ground around the margins of the Lefroy Goldfield was available and this was taken up by CKGM in October 1994 as the 219 sq km Bell Bay EL21/94 and the 202 sq km Pipers River EL22/94. The EL's lie astride the Bridport Highway between 4 km and 28 km east of George Town. See Figure 1.

Coverage of Lefroy itself was granted to CKGM in May 1995 (EL1/95).

This report details exploration on the Bell Bay and Pipers River licences in the period October 1995 - September 1996. The work included:

- -80 mesh stream sediment sampling on both EL's
- 8 km of gridding, soil sampling (245 samples) and rock sampling, in Monarch-Londonderry area (Bell Bay EL)
- 1.5 km of gridding, rock sampling, mapping and ground magnetics, east of Monarch Hill (Bell Bay)
- 1 km soil sampling traverse and rock sampling, at Native Industry Mine (Bell Bay)
- Further interpretation of Landsat and aeromagnetic data over both EL's
- Negotiations with ML holders at Native Industry Mine (Bell Bay) and Back Creek (Pipers River)

Both tenements are being reduced - Bell Bay to 77 sq km and Pipers River to 67 sq km. A separate report catalogues all exploration carried out by CKGM on the relinquished areas.

Acknowledgements are due to R Keele and R Duraj, who carried out the majority of the work reported here.

3. GEOLOGICAL SETTING

The dominant rock group on the EL's is the Ordovician to Early Devonian Mathinna Beds - a thick monotonous sequence of quartzose and micaceous sandstone, siltstone and shale. Their distribution is shown in Figure 1. The sequence trends NW and is generally mildly cleaved and folded.

Jurassic dolerite and Permian sediments (conglomerate, sandstone and mudstone), outcrop on the SW part of the Bell Bay EL. The northern half of both licences is extensively covered by Tertiary basalt and Tertiary-Quaternary sands/gravels.

4. GOLD MINERALIZATION

Gold occurs in quartz veins within the Mathinna Beds, principally at Lefroy and Back Creek. It also occurs (to a much lesser extent) as alluvials, including Tertiary deep leads. Most of the known gold mineralization and old producing areas lies within the Lefroy EL1/95, but Pipers River EL22/94 surrounds the old Back Creek Goldfield where a small area of auriferous quartz reefs and alluvials produced 10,000 oz. This area is covered by local ML holders. See Figure 1.

Several auriferous quartz reefs in the SW corner of the Lefroy field, including the Monarch, Orlando and Londonderry, fall within Bell Bay EL21/94. Other gold occurrences on Bell Bay include the Native Industry Reef (covered by a small ML) 3 km east of the Monarch-Londonderry area, the Glen reefs on the Den Ranges 4 km SE along strike from the Native Industry, and the old Den alluvial gold workings a few kilometres to the NW of the Glen. Production from these occurrences is unknown but believed to be minor.

5. PREVIOUS MINING & EXPLORATION

The Lefroy Goldfield was discovered in 1869 and mining had virtually ceased by 1904. Total recorded gold production is put at 187,000 oz; 182,000 oz from reefs and 5,000 from alluvials (Keele, 1996). These figures are considered to substantially understate actual production from the field.

The Back Creek Goldfield was also discovered in 1869 and there has been negligible production since 1920. Most of the gold has been won from alluvials. Broadhurst (1935), puts total production from Back Creek at around 10,000 oz.

Within the area of the Bell Bay and Pipers River licences exploration in the modern era has been extremely limited. CRA Exploration carried out a regional stream sediment survey over the Pipers River area during the early 1980's. Results were generally insignificant, but an arsenic anomaly (23 ppm As, 0.1 ppm Au) at Platypus Road near Pipers River Township has been followed up by CKGM (see Section 8.1).

CRAE also investigated gold-bearing deep leads beneath the Tertiary basalt on Pipers River EL, using magnetics, gravity and drainage sampling. They did no drilling.

The alluvial gold potential at Back Creek was tested by Epoch Minerals Exploration NL between 1983 and 1986, but no mining was carried out. Epoch estimated the reserves of auriferous gravel at Back Creek were in the order of 100,000 to 200,000 cu m at unknown grade (Tregaskis & Rampe, 1987).

In the late 1980's Billiton Australia completed a reconnaissance BLEG drainage survey over the whole of NE Tasmania, taking several samples within the Bell Bay - Pipers River licence areas, without detecting any significant gold anomalies.

In 1993, as part of the NETGOLD Project, Mineral Resources Tasmania covered most of the two EL's with aeromagnetics (200m spaced E-W lines, 400m spaced N-S lines). Regional gravity coverage was also obtained.

6. TENURE

The Bell Bay EL21/94 (219 sq km) and Pipers River EL22/94 (202 sq km) were granted to CKGM on 28th October 1994.

The Bell Bay EL21/94 comprises Private Property, Crown Land and State Forest (including the Den Ranges RAP). Excluded from the EL are the 11 sq km Tippogoree Hills RAP, 6 sq km Four Mile Creek Wildlife Sanctuary, 4.81 sq km of Mining Leases, 2 sq km Curries River Reservoir and 0.89 sq km of Crown Reserves.

The Pipers River EL22/94 comprises Private Property, Crown Land and State Forest (including part of the Lefroy RAP). Exclusions include approximately 6 sq km of Mining Leases, mainly in the Back Creek area.

The EL's and some of their larger exclusions, are shown in Figure 1.

On 28th October 1996 the Bell Bay EL21/94 will be reduced to 77 sq km and the Pipers River EL22/94 will be reduced to 67 sq km.

7. EXPENDITURE

Expenditure on Bell Bay EL21/94 in the current year (October 1995 to end September 1996) was \$27,263. This brings total expenditure on the EL since its inception in October 1994 to \$67,743.

Expenditure on Pipers River EL22/94 in the current year was \$15,180, bringing the total expenditure since granting in October 1994 to \$55,222.

Details of the October 1995 - August 1996 expenditure on both EL's are as follows:

Description	Bell Bay EL21/94	Pipers River EL22/94
Geology	17,581	10,543
Geochemistry	3,821	109
Administration	2,596	1,500
Other - Travel	3,265	3,028
Total	\$27,263	\$15,180

8. RESULTS

8.1 Follow-Up Stream Sediment Sampling

Selected creeks in which anomalous gold values had been obtained during the early 1995 BLEG survey were followed up with detailed -80 mesh stream sediment sampling in September and November 1995. Within the Bell Bay and Pipers River EL's catchments sampled included Den Creek, Londonderry Creek, Fourteen Mile Creek, Curries River, Blanket Creek, and CRAE's Platypus Road As/Au anomaly (a small east tributary of the Pipers River). The area of low relief and poor Mathinna Beds exposure NW of Lefroy and catchments south of Weymouth, were sampled because the original BLEG sampling had not been effective there.

A total of 47 samples were taken, 35 from the Bell Bay and Pipers River EL's and 12 from the Lefroy EL (Keele, 1996). Results are shown in Table 1 and on Figures 2 to 5.

The samples were analysed for gold and arsenic by Analabs, Coee. Gold was initially determined by fire assay (30 gm charge, AAS finish) with an 8 ppb detection limit, but for 30 samples (19 from Bell Bay and Pipers River) gold analyses were repeated using a carbon rod finish to give a detection limit of 1 ppb. For unknown reasons, these repeats were not done using cyanidation as was intended.

Results were very disappointing. The most (only) anomalous result was 106 ppb Au (and 26 ppm As) from a small tributary (<0.2 sq km) of Londonderry Creek on the Bell Bay EL (originally 10.26 ppb Au in BLEG). See Figures 3 and 6. The tributary drains the area of the old Monarch, Orlando and Londonderry mines. Apart from an adjacent tributary with 14 ppb Au, all other samples from the survey assayed 8 ppb Au or less.

The Platypus Road anomaly on Pipers River EL (96 ppb Au and 20 ppm As in CRAE's 1982 -80 mesh sampling), returned consistently elevated As values in the CKGM survey (9-47 ppm) but negligible gold (1-3 ppb). See Figure 5. The Londonderry Creek catchment also had elevated As (14-31 ppm). Elsewhere, As values were generally <10 ppm.

For the survey as a whole, the lack of correlation between the original BLEG and later -80 mesh sampling is worrying. Care has to be exercised when considering whether catchments are sufficiently tested. The three BLEG-anomalous catchments on the western side of the Den Ranges, SE along strike from Londonderry Creek, are a good example. BLEG values of 13.74 ppb, 26.60 ppb and 9.00 ppb Au, on follow-up yielded -80 mesh values below detection limit (1 ppb or 8 ppb). These catchments are in areas of known gold mineralization (the small Den and Glen fields), and the BLEG values are more believable.

Sample No	Au(ppb)	As(ppm)	Easting	Northing	Topo Sheet	Sample Status	Comments
P407529	8	5	496500	5450460	Low Head	Good	Well formed creek flows only during rainfall; sediment medium to coarse, 20-30% large qtz pebbles, sa
P407530	8	4	496400	5450750	Low Head	Good	Well formed creek bed only flows during rainfall;taken from active sediment bar; medium to coarse sed
P407531	8	3	496350	5451120	Low Head	Reasonable	Poor flowing very small creek, only fine sediments amongst TeeTree roots; slight trap is evident on acti
P407532	8	4	496400	5451200	Low Head	Reasonable	40 m N from last sample; from another poor flowing small creek with dense vegetation in bed;fine sed
P407533	8	6	496520	5450320	Low Head	OK	Good flowing stream from very fine sediment with 10%qtz pebbles;creek bed congested with dense ve
P407534	8	4	496360	5452410	Low Head	Good	East of Curries River,good flowing creek,sample from active sand bar;30%qtz in medium to coarse san
P407535	8	5	496330	5452300	Low Head	Poor?	Very small creek flowing through TeeTree and dense vegetation.Very fine sands and silt, active but du
P407536	8	5	497120	5453130	Low Head	Poor	East of Curries River and 250m S of Lower Curries Dam;poor flowing and area predom alluvial sands a
P407537	8	11	496730	5453050	Low Head	Poor	Good flowing creek W of Curries River;only fine silts from grass, trees and other vegetation roots;25m
P407538	8	5	497060	5452590	Low Head	Poor	E of Curries River in an area disturbed by alluvial workings;sample from dug up creek bed;sediment not
P407539	8	10	496660	5452350	Low Head	Poor	East of Curries River; similar to above creek.
P407540	8	8	501100	5453860	Weymouth	Poor	Nth of Tourquoise Bluff Track,very poor creek system,no active sed,mostly fine silt and organic matter,
P407541	8	4	501170	5453960	Weymouth	OK	Eastern branch 60m up from junction,collected from well formed creek bed in active sediment among T
P407542	8	3	501500	5453870	Weymouth	Good	From active sediment bar from well flowing stream,area disturbed by forestry clearing up stream,taken
P407543	8	3	501490	5453770	Weymouth	Good	From active seds in good flowing stream bed 30-40m up from junction,very fine sands,no qtz pebbles,
P407544	8	5	501400	5453330	Weymouth	Poor	On same creek as 540 about 500m up stream,very dense T-tree and vegetation,from creek bed among
P407545	8	11	502340	5453240	Weymouth	Reasonable	Same creek as 543 up stream, 20 m from road crossing;creek bed disturbed by forestry workings up st
P407546	8	7	501900	5452850	Weymouth	Reasonable	On same creek as 544 about 800m up stream from the road crossing, area disturbed by forestry up str
P407547	0	0	500250	5454330	Weymouth	Reasonable	On the same creek as 540 & 541 about 1km down stream,80m upstream from fence line crossing cre
P407548	8	9	495940	5454630	Low Head	Poor	On the main creek, poor flowing and congested with T-Tree,collected from creek bed and dug up from
P407549	8	8	495950	5454720	Low Head	Very poor	Stream redirected by farming activity, sample collected from trench; treat as soil rather than drainage s
P407550	8	12	497320	5454550	Low Head	Poor	From main creek, on developed paddock, sediments are not original
P407551	8	31	499250	5447400	Bell Bay	Good	Nr. old Lanuncest'n Rd; coarse sed with 50% large qtz pebbles to cobbles;possibly affected by old w
P407552	11	14	499160	5447300	Bell Bay	Poor	Old workings upstream,taken 40m upstream from junction;possibly contaminated,poor sediment mainly
P407553	110	26	499350	5447150	Bell Bay	Reasonable	Very fine sediment from small stream showing signs of flowing, taken 20m upstream from the junction
P407554	8	3	501950	5445620	Retreat	Poor	Very poor creek,sample dug up from valley floor and is soil sample not stream sample
P407555	8	3	501350	5445410	Retreat	Good	Good flowing stream,very fine sediment with lots of organic matter
P407556	8	13	501860	5445190	Retreat	Good	Down stream from the same creek as 54, 40m up from the junction;good flowing stream,active sedim
P407557	8	4	501940	5445150	Retreat	Good	Eastern branch of good flowing stream,95% qtz, collected from active material; region affected by eith
P407558	8	11	502530	5444360	Retreat	Reasonably good	Den Creek,nr Industry Road;flowing stream with active sediment,mostly qtz;50m E of road, area distur
P407559	8	3	502560	5443920	Retreat	Reasonable	On the same creek as 53 about 500m down stream;area heavily disturbed up stream by forestry, road
P407560	8	15	502870	5443640	Retreat	Very poor	Creek dammed up stream,sample dug from old creek bed mainly silt and organic matter
P407561	8	6	503420	5443250	Retreat	Poor	On main creek,good flowing stream although channelled and redirected;sediment collected 600m upstr
P407562	8	2	505130	5442380	Retreat	Poor	Taken just below a series of damsup stream, mainly sludge, no real sediment due to damming of creek
P407563	8	2	502850	5442490	Retreat	Reasonable	Good flowing stream,taken from above the dam,area slightly disturbed by farming
P407564	8	13	504400	5442530	Retreat	Reasonable	Good flowing creek and active sediment from creek bed,old workings up stream,mainly qtz,creek chan
P407565	8	9	504370	5442410	Retreat	Poor	Taken down stream from road crossing,no sed up stream due to dams and paddocks,sample most likei
P407567	8	9	510900	5444820	Retreat	Very Good	Well formed flowing creek,25-30% qtz,some large pebbles;sample collected 40m up stream from the b
P407568	8	15	510650	5444800	Retreat	Good	Same creek down stream as '67; 25m above junction with smaller creek to south, flowing stream with
P407569	8	34	510200	5445100	Retreat	Good	20m upstream from road crossing and old sample 973207;good flowing stream,mainly fine seds;old sa
P407570	8	47	510400	5444850	Retreat	Poor	Very poor creek that is not flowing, at same location as CRA sample about 10m up stream from the m
P407571	8	21	510500	5444870	Retreat	Good	Good flowing streamabout 25m up stream past s-bend on main creek,taken above junction, again panc
P407572	8	35	509600	5445650	Retreat	Good	On the main creek about 100m from Pipers River;good flowing stream with active sediment;collected f
P407573	8	7	511550	5456050	Weymouth	Very poor	Northernmost creek;sample dug up from valley floor, no defined creek, consider as soil sample;surroun
P407574	8	6	511820	5455750	Weymouth	Very poor	Small creek east of 73;sample dug up from valley floor about 150m up from fence and road, same as
P407575	8	3	512400	5454940	Weymouth	Very poor	Sample dug up from valley floor above road, no creek formation at all
P407576	8	1	512570	5454400	Weymouth	Very poor	Same as 74,basalt outcrop along the road

TABLE 1 : RESULTS OF FOLLOW-UP STREAM SEDIMENT SAMPLING (-80 MESH)

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8.2 Soil Sampling in Monarch-Londonderry Area

After the anomalous gold drainage values were detected in Londonderry Creek, the main Lefroy soil sampling grid was extended 1 km onto the Bell Bay EL south of Monarch Hill to cover this catchment. Between October 1995 and January 1996, 8.36 km of gridding was done and 245 soil samples taken. The grid and soil values for Au/As are shown in Figure 6.

The soil samples comprised 1-2 kg of unsieved material taken with a mattock at depths of 20-40 cm. They were analysed by Analabs, Coee, for gold by fire assay (5 ppb detection limit). Sixty-eight samples were also analysed for arsenic by AAS. Results are listed in Appendix 1.

As can be seen in Figure 6, two main irregular zones of anomalous soils were outlined, with peak values in the 54-92 ppb Au range. Although they partly coincide with the known auriferous reefs here (Monarch, Orlando, Endeavour and Londonderry), the anomalies define two parallel north-south trending zones 400-750m long and at right angles to the reefs. This orientation is also evident in the ridges and valleys in this area, suggesting some local lithological and/or structural control to the mineralization, independent of the E-W faults that host the auriferous quartz reefs.

An isolated single point 1500 ppb Au soil value at 5447600N / 449220E was followed up in September 1996 by a close pattern of soil sampling at and around the original sample site. A power auger was used to collect the samples from 0.7m depth and the -80 mesh fraction was analysed. None of the seven samples contained gold and the "anomaly" is regarded as spurious. See Figure 7.

8.3 Rock Sampling in Monarch - Londonderry Area

In May this year selected rock samples were taken from the dumps of the New Monarch shaft and the Londonderry Mine, as well as an unnamed exploratory adit at 5447700N / 499040E beside the Old Launceston Road. Eleven samples were taken. Sample locations are shown on Figure 6 and results are listed in Table 2.

The New Monarch dump is very large although about 70% of it has been removed, presumably for retreatment (by Epoch?). There is some sulphidic (pyrite and arsenopyrite) lode quartz present and alot of sulphide-stained, strongly altered (quartz-sericite-bleaching), sedimentary host rock material. Six samples from the dump assayed from 0.1-3.0 g/t Au, the latter from lode quartz. The most interesting value was 2.1 g/t Au from altered siltstone with minor pyrite and lacking quartz veins.

The Londonderry working is much smaller than the Monarch and the dump material lacks the alteration and sulphides of the latter. The two Londonderry dump samples contained negligible gold.

The adit beside the Old Launceston Road has been driven along the axis of a NNW-trending gently plunging anticline in black shales. A saddle reef up to 0.7m thick wraps itself over the fold although it is best developed on the eastern limb. The reef comprises brown to red limonitic and hematitic quartz. Three samples showed it is barren.

TABLE 2. ROCK SAMPLE RESULTS : MONARCH-LONDONDERRY AREA

Sample No	Type	Location	Northing	Easting	Au (ppm)	As (ppm)	Comments
214025	Dump	New Monarch	5447580	499530	3.030		Qtz-sed Bx (lode). Alt pyritic Sst frags in white qtz.
214026	Dump	New Monarch	5447585	499530	0.985		Grey qtz with alt sed frags. Minor py & aspy.
214027	Dump	New Monarch	5447583	499530	1.305		Cleaved qtz-sericite alt Sst. 1% py. 20% qtz veins.
214028	Dump	New Monarch	5447577	499530	0.566		Qtz-sericite-bleached alt Sst/Slt. 1-2% py.
214029	Dump	New Monarch	5447575	499530	2.120		Similar to 028. Alt Slt with 1% py.
214030	Dump	New Monarch	5447572	499530	0.119		Qtz-mica schist after Slt/Sst. Weak cb alt.
214031	Dump	Londonderry	5447260	499150	0.018		Qtz-mica Slt/Sst. Cleaved. Green mica.
214032	Dump	Londonderry	5447260	499153	0.025		Cleaved qtz-sericite alt Slt. Minor aspy.
214033	5m Chip	Adit	5447710	499075	0.023	126	9-14m in, E wall. Limonitic qtz, minor black Sh.
214034	0.5m Channel	Adit	5447730	499080	<0.005	<100	30m in, E wall. 10 flat qtz veins in black Sh.
214035	Outcrop	Adit	5447715	499075	<0.005	<100	15m in, E wall. 0.7m limonitic/hematitic qtz vein.

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8.4 Gridding East of Monarch Hill

In July 1996 a 15 km 100m x 20m grid was cut in the Volunteer Hill area at the southern end of the Lefroy field. The southern-most 100m of the 15 N-S gridlines extended onto the Bell Bay EL immediately to the east of Monarch Hill. See Figure 8.

In September 1996 the grid was mapped (geology and old mining activity), rock sampled and covered by ground magnetics using the HDM (High Definition Magnetics) system. Results of the magnetics and mapping are still being processed and compiled. Rock sample results from that part of the grid on the Bell Bay EL are tabulated in Table 3 and located on Figure 8. The very low gold values (maximum 0.13 g/t Au) reflect the fact that there are only minor old gold workings on this part of the grid.

TABLE 3 ROCK SAMPLE RESULTS : EAST OF MONARCH HILL

Sample No.	Type	Northing	Easting	Au (ppm)	Comments
214088	Dump	5447955	499655	0.013	White vein qtz.
214089	Dump	5447970	499695	0.126	Chloritic & sericitic black shale. 10% qtz veinlets. Limonitic.
214090	Dump	5447970	499697	0.023	Grey limonitic lode qtz.
214091	Dump	5447957	499700	<0.005	Sugary vein qtz with grey patches.
214518	Dump	5448000	499560	0.016	Limonitic qtz vein stockwork in sericitic-limonitic shale (lode).
214519	Dump	5448000	499562	<0.005	Similar to 518. Less limonite & qtz veins.
214520	Dump	5448000	499558	<0.005	Qtz-mica Sst. Minor pits after pyrite.
214521	Dump	5447960	499755	<0.005	Cleaved black shale.
214581	Dump	5448000	499835	0.010	Sericiticed shale. Minor pits after py. Rare qtz veinlets.
214606	Sub outcrop	5447910	500035	0.010	Cleaved qtz-mica Sst. Weakly sericiticed.

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CEN 201.60.12107 (2.8.96)

CEN 201.60.12159 (15.8.96)

CEN 201.60.12249 (19.9.96)

8.5 Sampling Near Native Industry Mine

In early 1996 a 1000m long E-W reconnaissance soil sample line was put in immediately north of the old Native Industry Mine - a small auriferous quartz reef working within the Bell Bay EL. The mine is held under a 32 ha Mining Lease by Genders and Broomhall who are actively working the lease at the present time. Discussions are continuing with the ML holders to obtain their permission for CKGM to explore on the lease.

The soil line was put along the northern edge of the ML at 5446400N, from 502120E to 503120E. Soil samples were taken every 40m along the traverse and analysed by Analabs, Cooe, for gold and arsenic. The line location is shown in Figure 9 and the results in Table 4. No significant gold values were detected - the best being 19 ppb Au and 20 ppm As (coincident).

Prominently quartz-veined Mathinna Beds sediments in a roadcut near the eastern end of the soil line were sampled over a 48m N-S length. Because the sediments and much of the quartz veining are flat lying here, the samples comprised 0.5-1m vertical chips and were taken at 3m intervals along the road cut. The samples were analysed for gold only. Values were negligible, with a maximum of 0.145 g/t Au. Results are listed in Table 4 and the sample location is shown in Figure 9.

8.6 Interpretation of Aeromagnetic and Landsat Data

Further interpretation was undertaken by R Keele of the aeromagnetic and Landsat data over both the Bell Bay and Pipers River EL's. This work centred on the Lefroy area and has been previously reported under EL1/95 (Keele, 1996). Keele's work is paraphrased below. His Landsat interpretation is reproduced in Figure 10 and data from the aeromagnetics in Figures 11 and 12.

Features pertinent to the Bell Bay and Pipers River areas include:

Landsat:

1. NNE to ENE faults and fractures are imposed on NW trending lithological and structural linears.
2. Plunging folds are evident in the Mathinna Group between Lefroy and Back Creek, especially at Baker Tier.

Aeromagnetics:

1. The dominant direction of the Tertiary basalt flows is NNW, perpendicular to the presumed crustal extension during the Tertiary. Individual basins in the basalt have orientations ranging from E-W to N-S.
2. A system of E-W to ENE-WSW topographic features, probably either Tertiary transfer faults or reactivated Devonian structures, have influenced the ponding of the basalt flows.
3. The Native Industry Mine lies on a magnetic lineament which continues northwards to bisect the Back Creek Goldfield, where it appears to control the local basalt-filled basin. This indicates it was active or at least influential, during the Tertiary. Further south, the Den alluvial goldfield also lies on this linear.

TABLE 4 : SOIL AND ROCK SAMPLE RESULTS - NATIVE INDUSTRY MINE

SOILS							
Uniq No	Sample No	Au (ppb)	As (ppm)	Easting	Northing	Soil Type	Comments
642	210551	19	20	503080	5446400	C;tan	Good, on roadcutting
643	210527	14	6	503040	5446400	B;grey	Poor, ground disturbed
644	210528	<5	6	503000	5446400	B;tan	Good
645	210529	<5	13	502960	5446400	B;tan	Good
646	210530	<5	18	502920	5446400	B;tan	Good
647	210531	<5	<1	502880	5446400	B;grey	Poor, mainly fine sands
648	210532	5	6	502840	5446400	B;tan	Good
649	210533	<5	3	502800	5446400	B-C;grey/tan	Good, o/c nearby
650	210534	8	14	502760	5446400	B;tan	Good
651	210535	6	<1	502720	5446400	B;grey	Poor, qtz gravel
652	210536	<5	<1	502680	5446400	B;grey	Poor, qtz gravel
653	210537	5	6	502640	5446400	B;tan	Good
654	210538	<5	<1	502600	5446400	B;grey	Poor, mainly qtz
655	210539	6	10	502560	5446400	B;tan	Good
656	210540	5	<1	502520	5446400	B-C;tan	Poor, mainly qtz
657	210541	<5	2	502480	5446400	B;tan/grey	Good
658	210542	7	12	502440	5446400	B-C;tan	Good, o/c nearby, sst pebbles in sample
659	210543	13	8	502400	5446400	B;tan/grey	Good, on ridge
660	210544	11	<1	502360	5446400	B;grey	V.poor, qtz gravel
661	210545	<5	3	502320	5446400	A-B;grey	V.poor, organic matter, head waters of creek
662	210546	<5	<1	502280	5446400	B;grey	Poor, hard compacted qtz 25" depth
663	210547	<5	8	502240	5446400	B;tan/grey	Good, 25" depth
664	210548	6	14	502200	5446400	B;tan	Good, some qtz
665	210549	5	<1	502160	5446400	B;grey	Poor, compacted qtz
666	210550	<5	<1	502120	5446400	B;grey	Poor, v.compacted qtz, could not get through
667	210551	<5	2	503120	5446400	B;grey	Poor, mainly fine sands & qtz, some rock chips, ground disturbed

ROCKS						
Uniq No	Sample No	Au (ppm)	Easting	Northing	Comments	Location
38	219904	0.023	503050	5446500	slst/sh + qtz, sst + qtz stockwork	Industry Road section (9mS)
39	219905	0.145	503050	5446497	Contorted slst/sh + 5-10cm qvs, minor sst + veining	Industry Road section (12mS)
40	219906	0.092	503050	5446494	Strongly contorted/folded slst/sh + qv, sst & 2cm qvs	Industry Road section (15mS)
41	219907	0.024	503050	5446491	Horiz bedded slst/sh + qtz & Fe stain	Industry Road section (18mS)
42	219908	0.03	503050	52446488	Minor shale/sst contact ,Fe stain, sst + qtz veinlets, stockwork	Industry Road section (21mS)
45	219911	0.008	503060	5446453	sst + qtz stockwork	Industry Road section (30mS)
46	219912	0.009	503060	5446450	sst + qtz stockwork	Industry Road section (33mS)

9. CONCLUSIONS

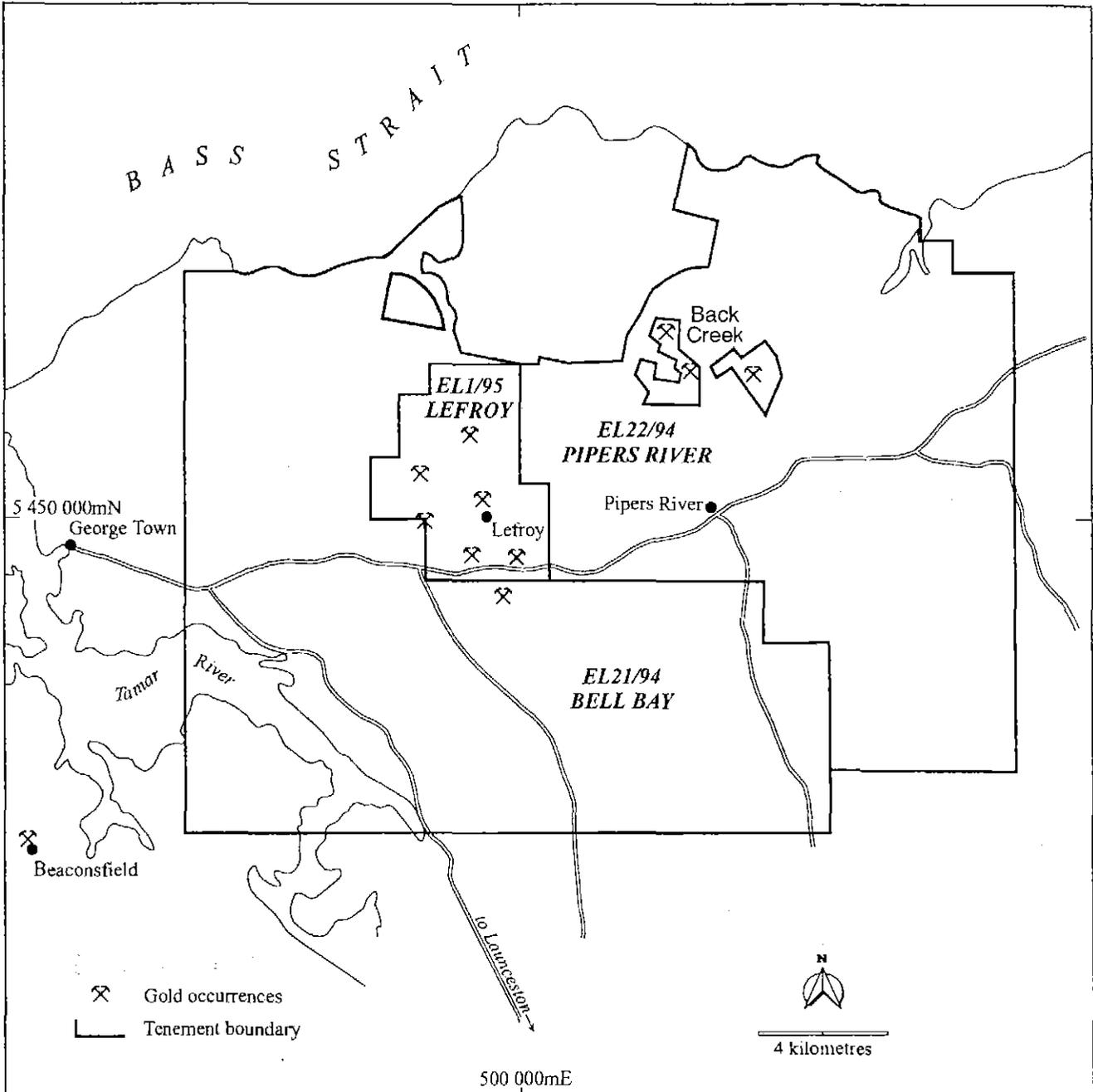
1. Gold detected in the earlier drainage sampling on both EL's has not yet been fully followed-up. Further testing of these modest indications is warranted.
2. Known gold occurrences within the EL's (e.g. Back Creek, Monarch-Londonderry, Den and Glen), are either unevaluated or insufficiently-evaluated by CKGM.
3. From the work done to date, the best indications of economic gold mineralization are in the Monarch-Londonderry area, south of Monarch Hill on the Bell Bay EL.

10. RECOMMENDATIONS

1. A small programme of RAB drilling be undertaken in the vicinity of the old Monarch Mine, to test for the gold-bearing sediments seen in samples from the shaft dump and indicated by the soil/drainage sampling in this area.
2. Follow-up insufficiently-tested gold anomalies remaining from the drainage sampling by ridgetop and roadside soil sampling in these catchments using a vehicle-mounted mechanical auger. Targets include small catchments along the western side of the Den Ranges in the vicinity of the Den and Glen gold occurrences, and at Baker Tier.
3. Finalize agreements with the ML holders at Back Creek, and carry out systematic rock sampling in the area of the old reefs.
4. Cover the retained area with a low-level helicopter-borne High Definition magnetic survey to delineate the zones of hydrothermal alteration associated with the gold mineralization.

11. REFERENCES

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(Appendix 1 in Keele, R.A. 1995: Annual Report
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- Keele, R.A. 1996 Annual Report for Gold Exploration over EL1/95 -
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CKGM Unpub Rep, April 1996.
- Tregaskis, D.V. & 1987 Report on the Lefroy Goldfield, EL35/81
Rampe, M. (Encompassing Mining Leases at Lefroy and Back
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Unpub Rep Tihele Pty Ltd.



Central Kalgoorlie Gold Mines NL
North East Tasmania
LOCALITY PLAN

October 1996

5 cm

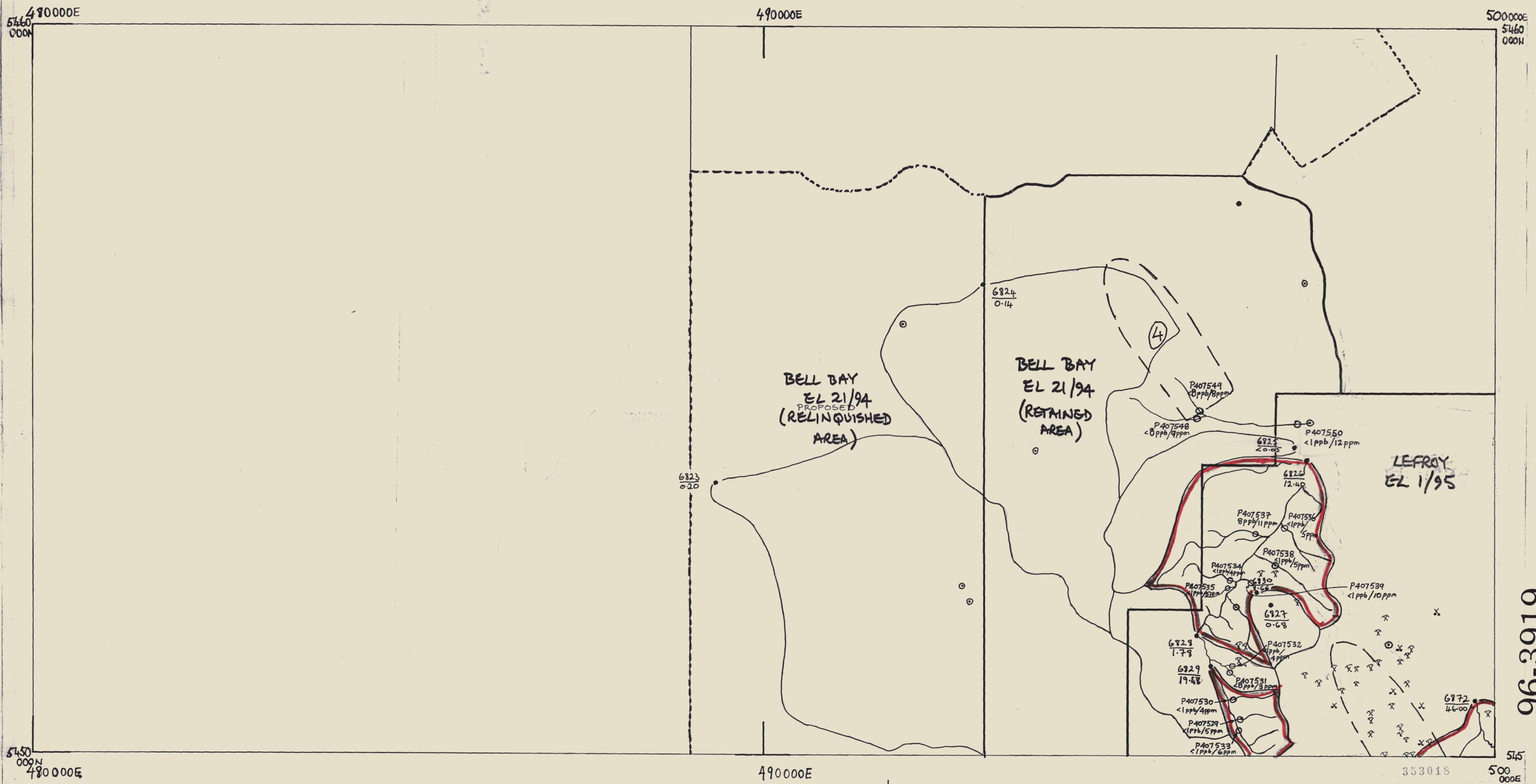
Figure 1

1:25 000

STREAM BEDS

LOW HEAD

LOW HEAD



545000N
480000E

490000E

LOW HEAD

353018

545000N
500000E

FOLLOW-UP PROGRAMME:

- Sample site (-80 mesh)
- 1ppb/10ppm
Au As

KEY

- BLEG STREAM SEDIMENT
- 8822 Sample No. (Prefix P40—)
- 19.48 Gold content ppb.
- Sites inspected but not suitable for sampling
- △ Rock sample
- ⬭ Anomalous catchments in red
- ⊖ Structural zones

CENTRAL KALGOORLIE GOLD MINES NL
EL1/95, EL21/94, EL22/94

LEFROY PROJECT
NE TASMANIA

DRAINAGE SAMPLING
LOW HEAD SHEET

SCALE 1:25,000 SEPT 1998

FIGURE 2

5 cm

96-3919

ANNUAL REPORT-1995/96
EL1/94 & 22/94 - NE TAS.
LEFROY GOLD MINES-J.G. PURVIS

1:25000

STREAM SEDS
D. M.P.D.

BELL BAY

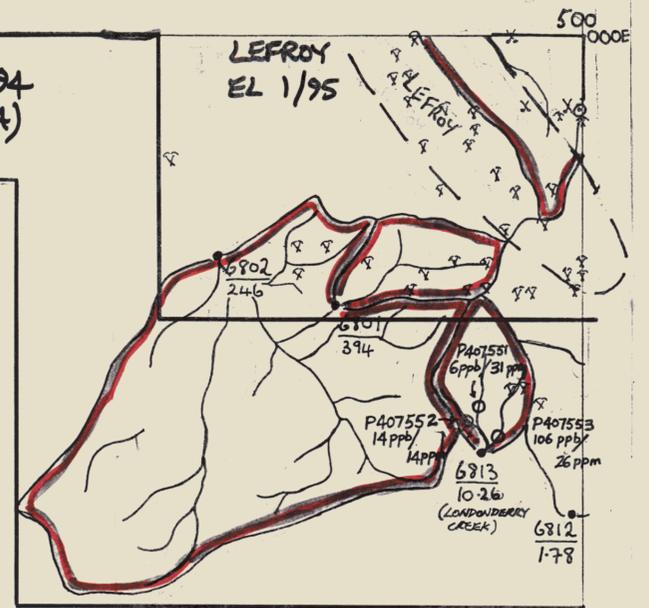
480000E
545000N
544000N
480000E

490000E BELL BAY
490000E
490000E

BELL BAY EL 21/94
(RETAINED AREA)

BELL BAY
EL 21/94
PROPOSED
(RELINQUISHED
AREA)

LEFROY
EL 1/95



96-3919

ANNUAL REPORT-1995/96
EL21/94 & 22/94 - NE TAS.
LEFROY GOLD MINES-J.G. PURVIS

FOLLOW-UP PROGRAMME:
Sample site (-80 mesh)
1ppb/10ppm
Au As

- KEY
- BLEG STREAM SEDIMENT
 - 6823 Sample No. (Prefix P40—)
1948 Gold content ppb.
 - Sites inspected but not suitable for sampling
 - ▲ Rock sample
 - ⬮ Anomalous catchments in red
 - ⊖ Structural zones

5 cm

353019

CENTRAL KALGOORLIE GOLD MINES NL
EL1/95, EL21/94, EL22/94

LEFROY PROJECT
NE TASMANIA

DRAINAGE SAMPLING
BELL BAY SHEET

SCALE 1:25,000 SEPT 1996

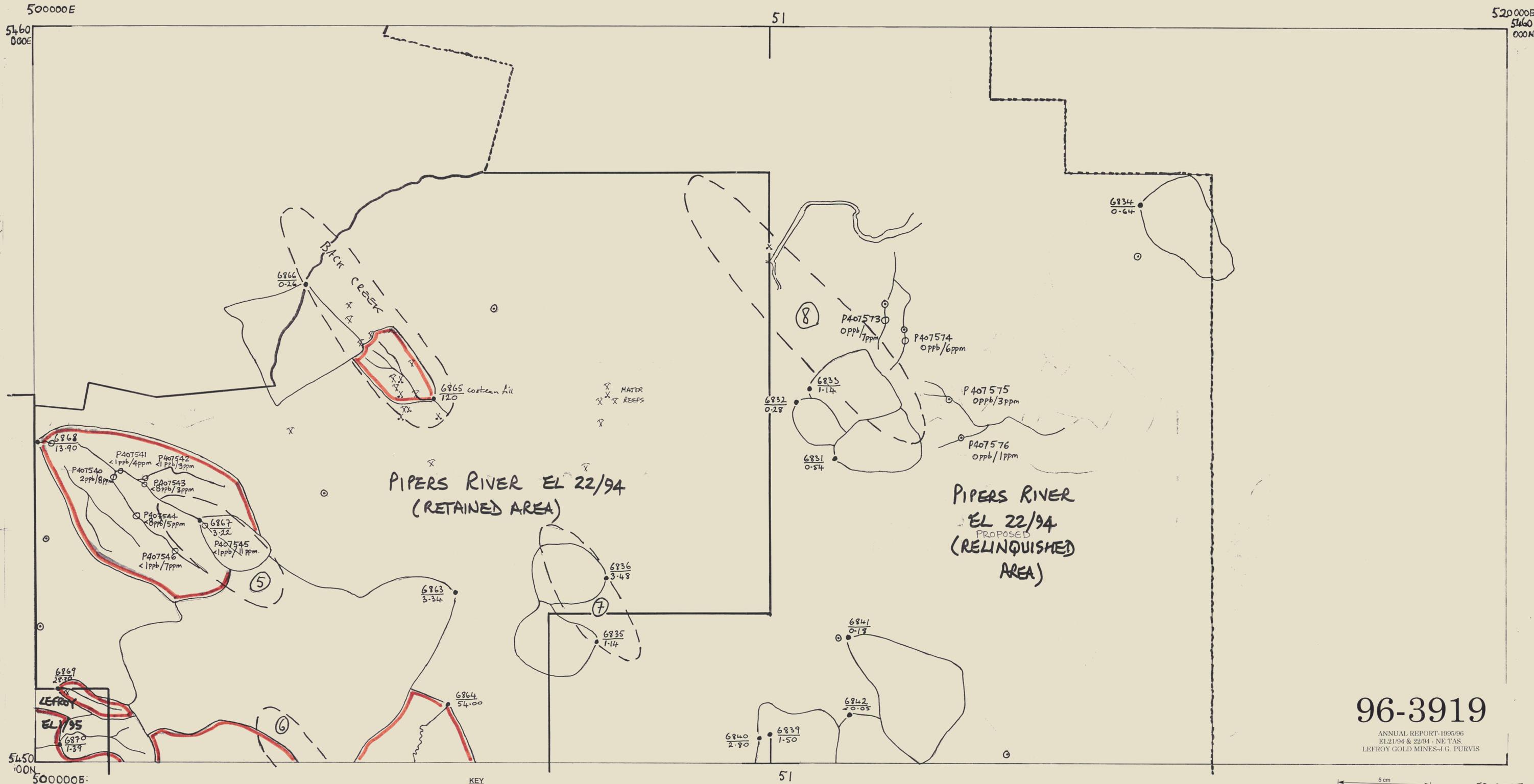
FIGURE 3

1:25 000

STREAM SEDS

WEYMOUTH

WEYMOUTH



96-3919

ANNUAL REPORT-1995/96
EL21/94 & 22/94 - NE TAS.
LEFROY GOLD MINES-J.G. PURVIS

- FOLLOW-UP PROGRAMME:**
- Sample site (-80 mesh)
 - 1ppb/10ppm
↑ Au ↑ As
- KEY**
- BLEG STREAM SEDIMENT
 - 6829 Sample No. (Prefix P40—)
 - 19.48 Gold content ppb.
 - Sites inspected but not suitable for sampling
 - △ Rock sample
 - Red outline Anomalous catchments in red
 - Structural zones

353020

5 cm

CENTRAL KALGOORLIE GOLD MINES NL
EL1/95, EL21/94, EL22/94

LEFROY PROJECT
NE TASMANIA

DRAINAGE SAMPLING
WEYMOUTH SHEET

SCALE 1:25,000 SEPT 1996

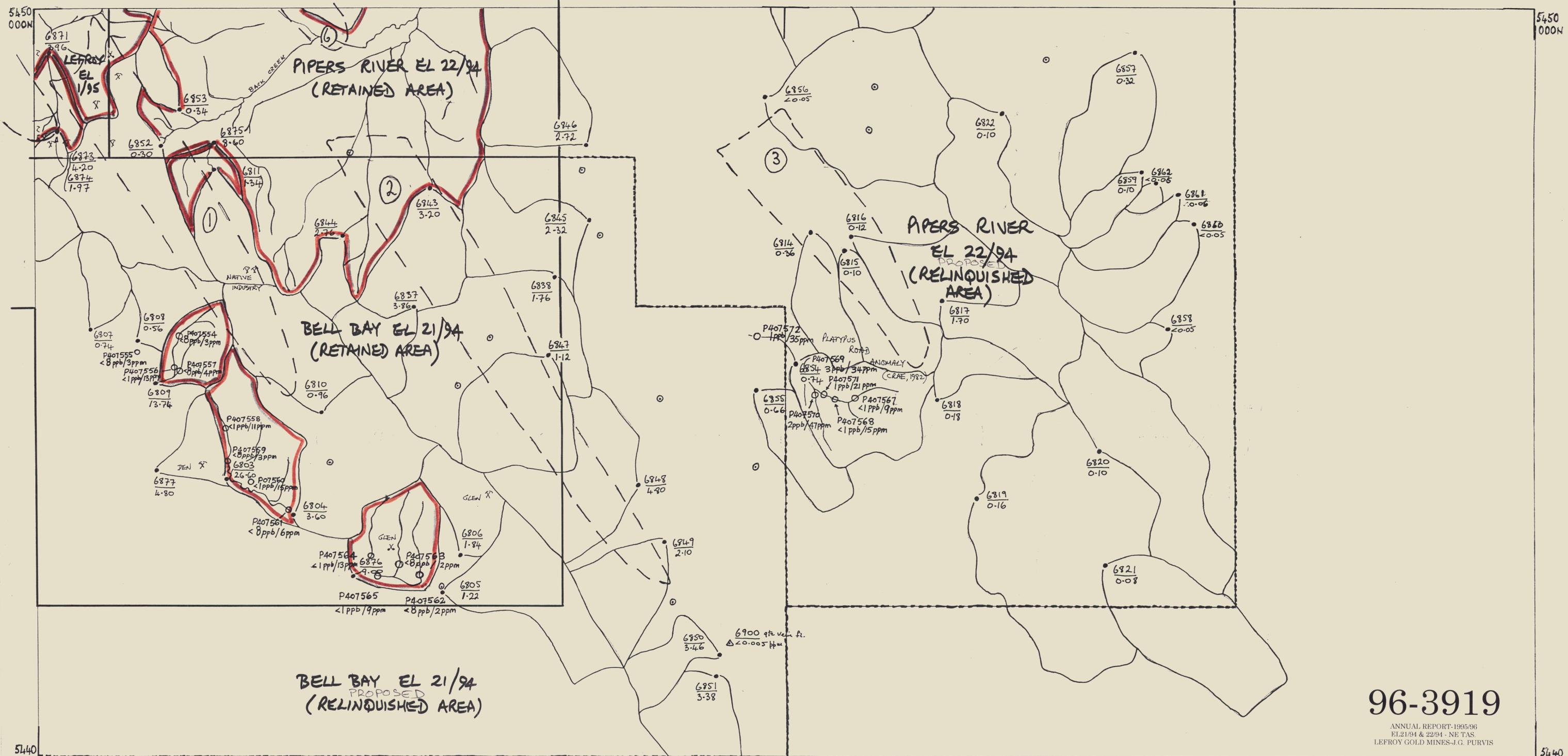
FIGURE 4

1:25000

STREAM BEDS

RETREAT

RETREAT



96-3919

ANNUAL REPORT 1995/96
EL 21/94 & 22/94 - NE TAS.
LEFROY GOLD MINES - J.G. PURVIS

KEY

Sample site (-80 mesh)	• BLEG STREAM SEDIMENT
$\frac{1\text{ppb}}{\text{Au}}$ / $\frac{10\text{ppm}}{\text{As}}$	6829 Sample No. (Prefix P40—)
	19.48 Gold content ppb.
	○ Sites inspected but not suitable for sampling
	△ Rock sample
	⊖ Anomalous catchments in red
	⊙ Structural zones

5 cm

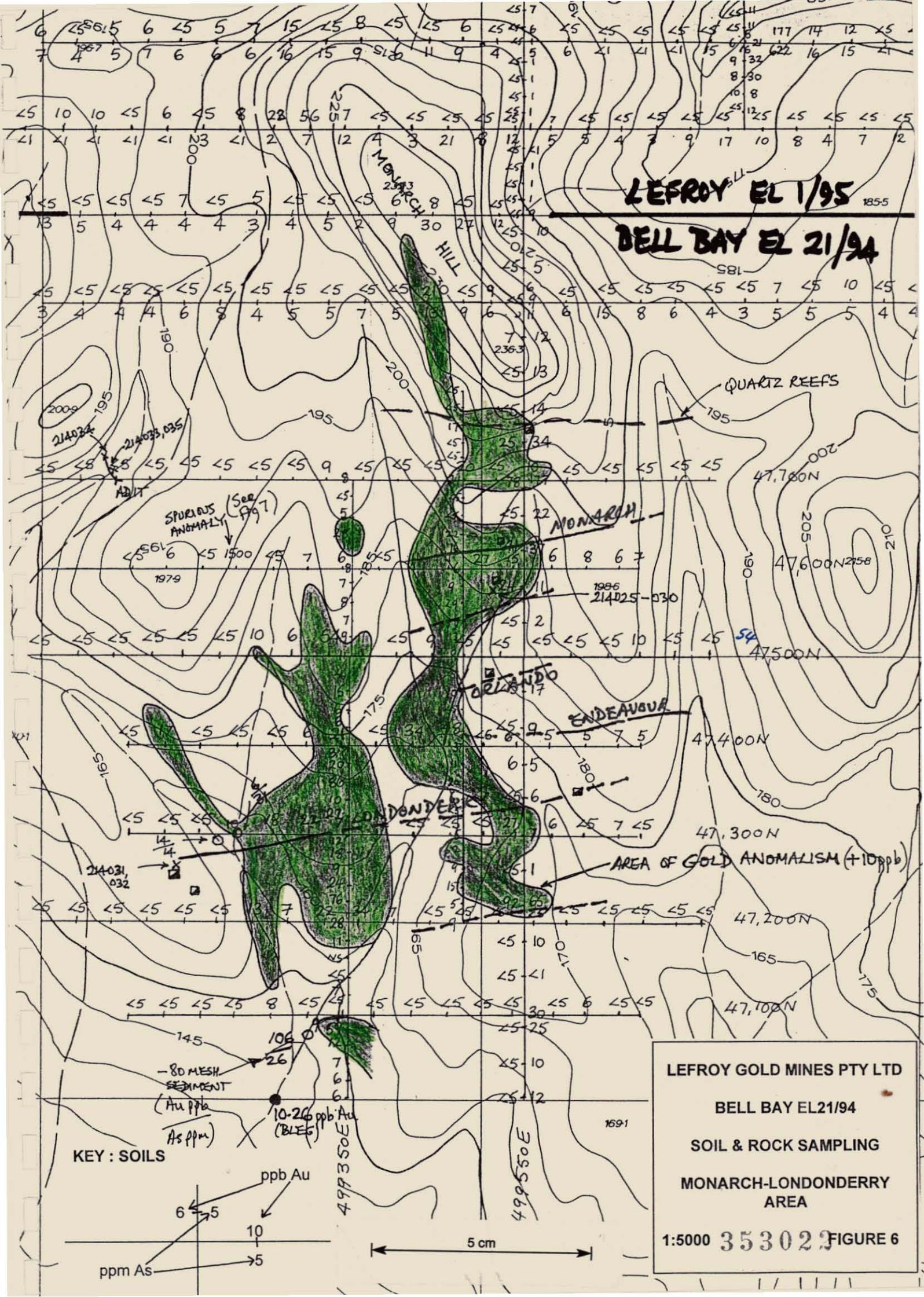
RETREAT

CENTRAL KALGOORLIE GOLD MINES NL
EL 1/95, EL 21/94, EL 22/94

LEFROY PROJECT
NE TASMANIA

DRAINAGE SAMPLING
RETREAT SHEET

SCALE 1:25,000 SEPT 1996



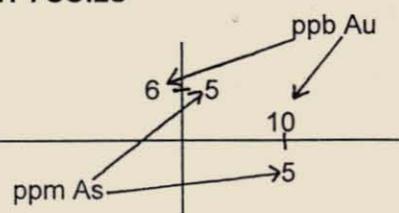
LEFROY EL 1/95 1855

BELL BAY EL 21/94 S8L

SPURIOUS ANOMALY (See P97)

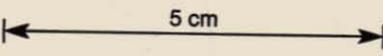
AREA OF GOLD ANOMALISM (+10ppb)

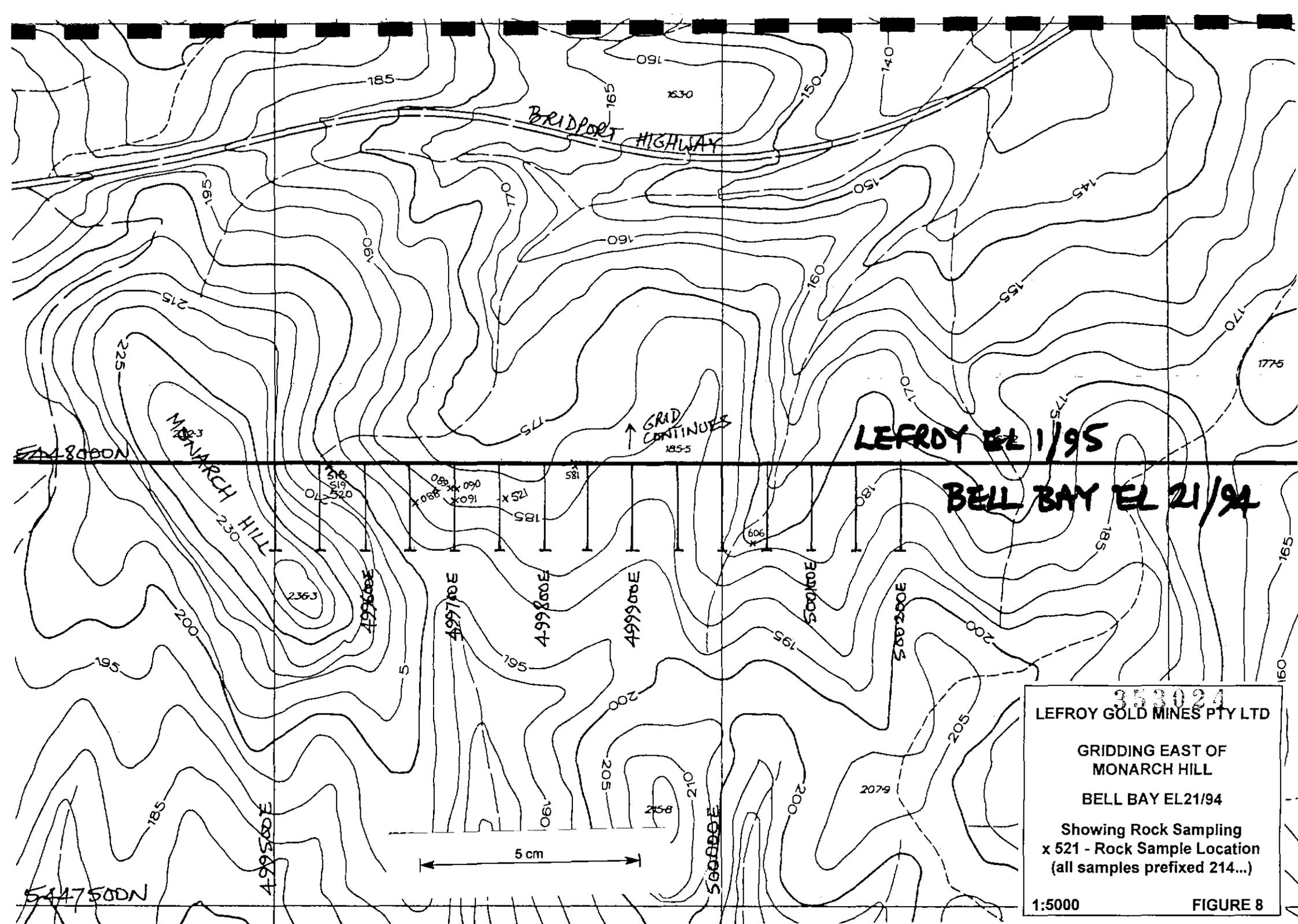
KEY : SOILS



LEFROY GOLD MINES PTY LTD
BELL BAY EL21/94
SOIL & ROCK SAMPLING
MONARCH-LONDONDERRY
AREA

1:5000 353029 FIGURE 6





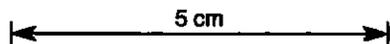
353024
 LEFROY GOLD MINES PTY LTD
 GRIDDING EAST OF
 MONARCH HILL
 BELL BAY EL21/94
 Showing Rock Sampling
 x 521 - Rock Sample Location
 (all samples prefixed 214...)
 1:5000 FIGURE 8

RETREAT 5044

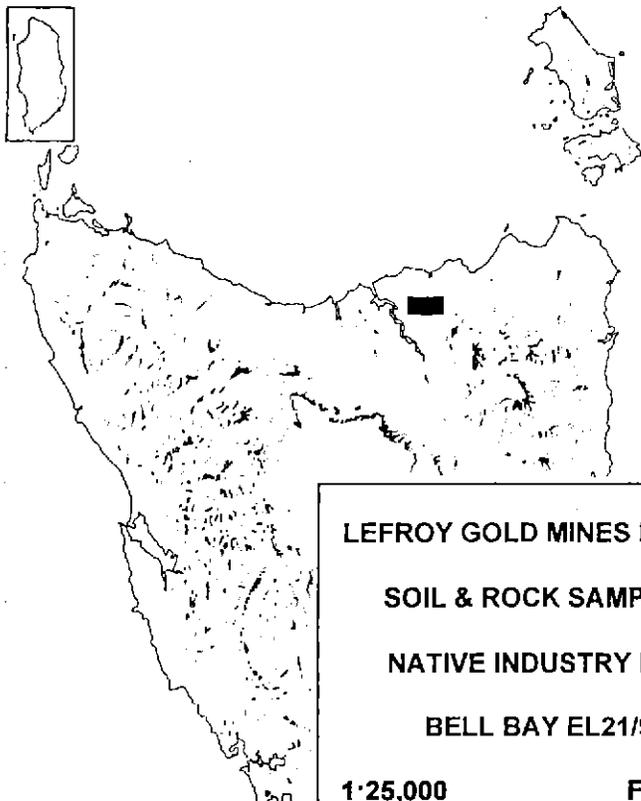
EDITION 2

TASMANIA 1:25 000 SERIES

353025

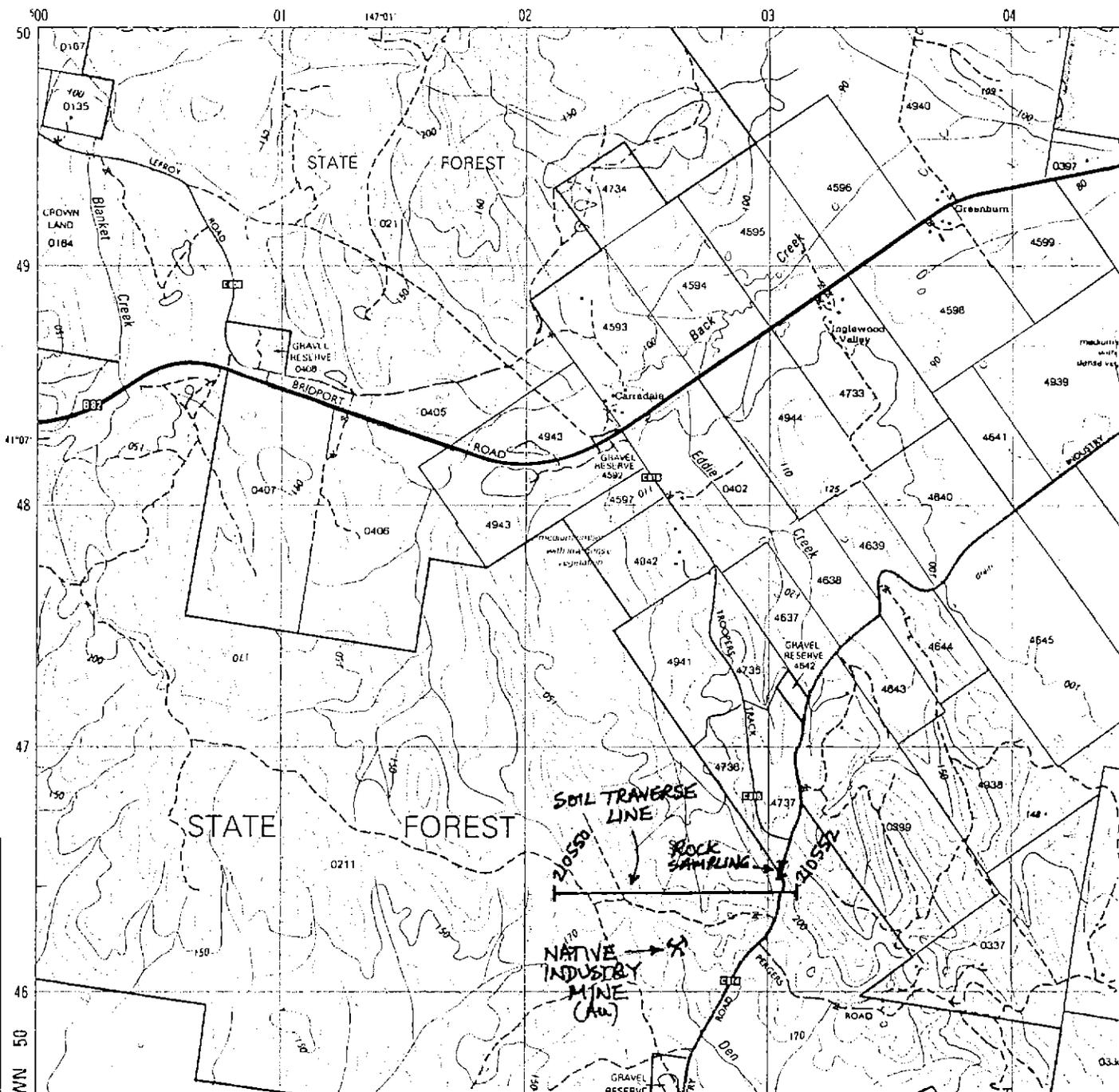


TASMANIA 1:25 000 SERIES



LEFROY GOLD MINES PTY LTD
SOIL & ROCK SAMPLING
NATIVE INDUSTRY MINE
BELL BAY EL21/94
1:25,000

FIGURE 9



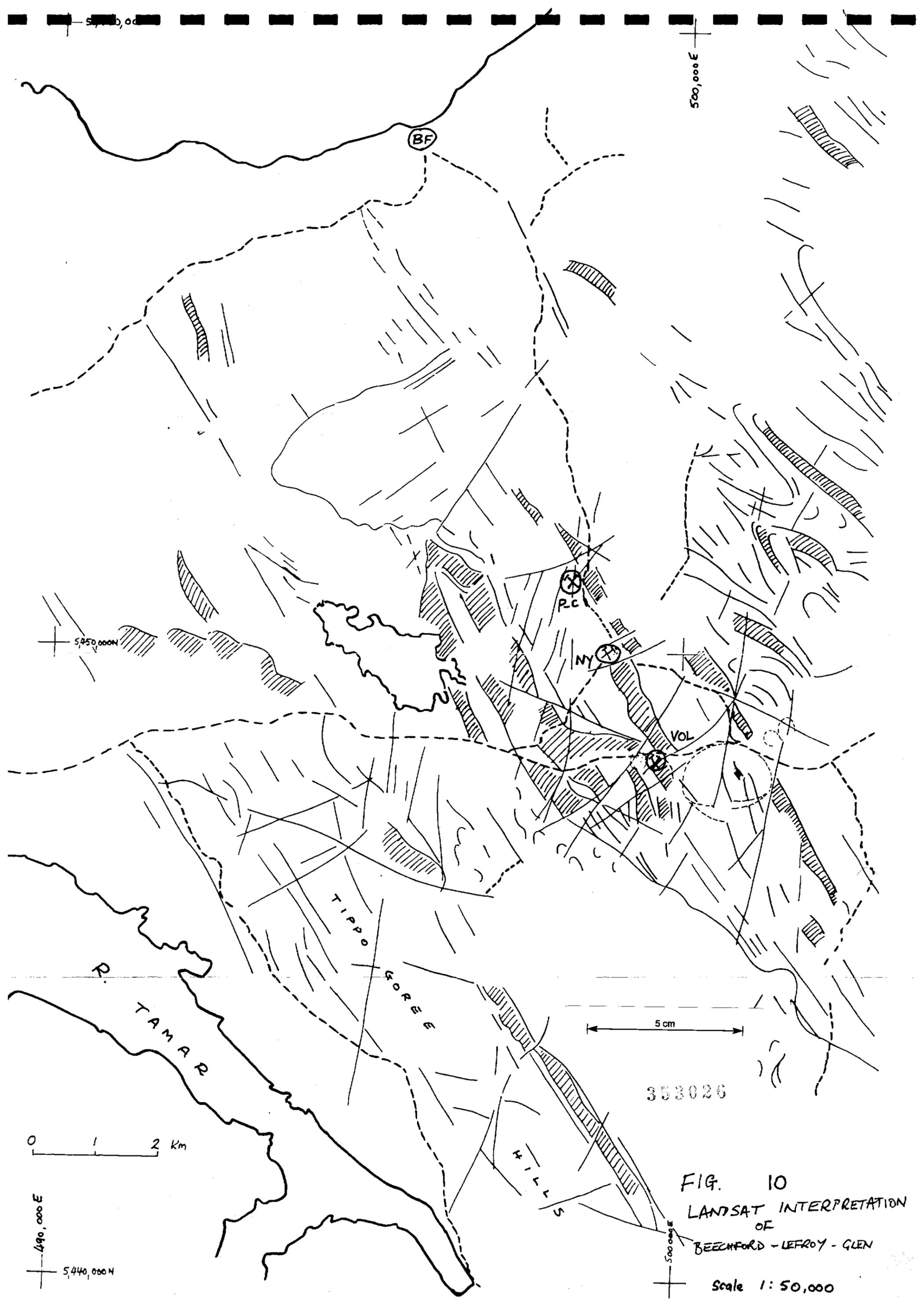


FIG. 10
LANDSAT INTERPRETATION
OF
BEECHFORD - LEFROY - GLEN

Scale 1:50,000

0 1 2 Km

5 cm

500,000 E

353026

490,000 E

5,440,000 N

5,450,000 N

BF

P.C.

NY

VOL

TIPPO FOREA

HILLS

TAMAR

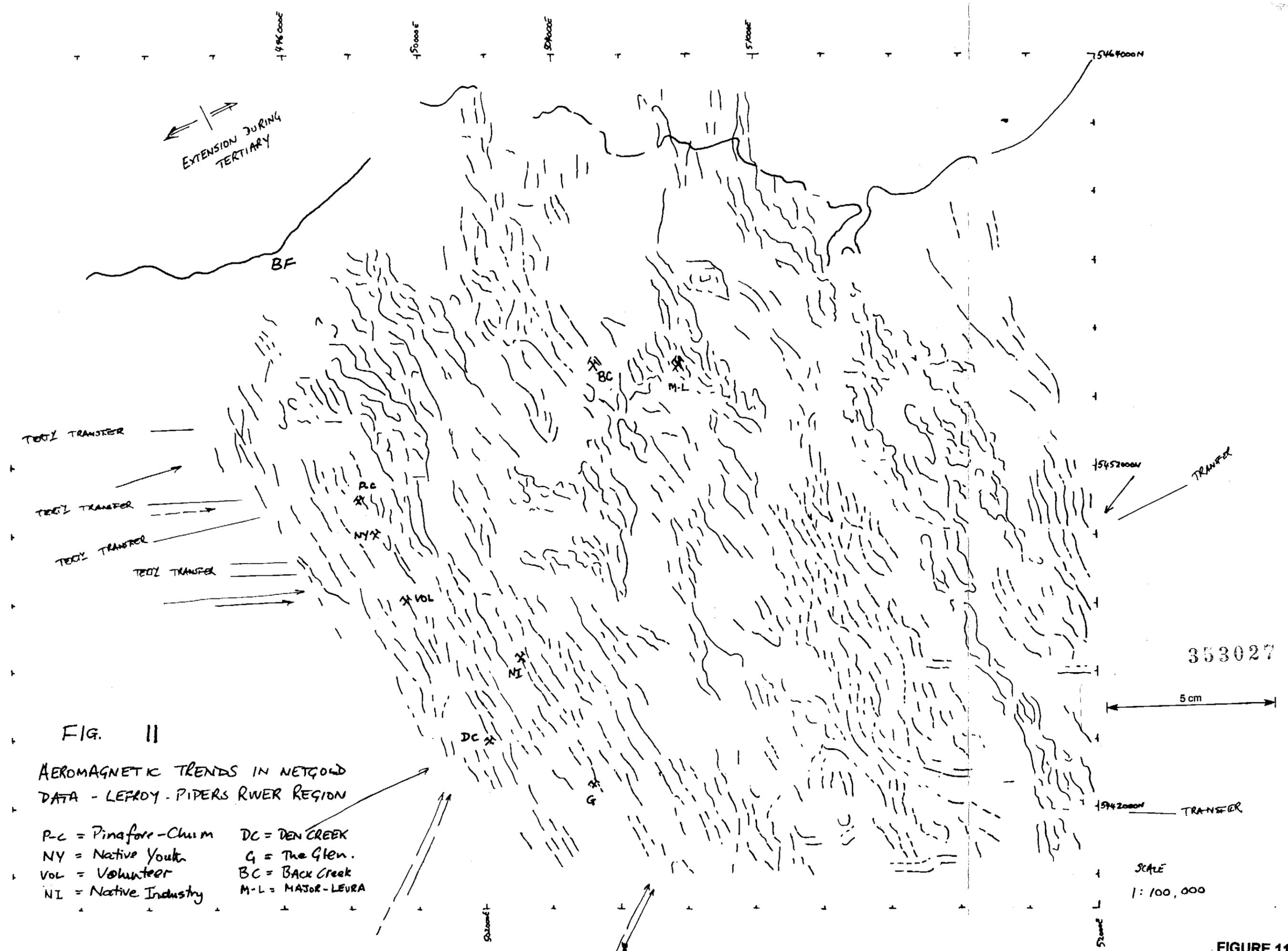
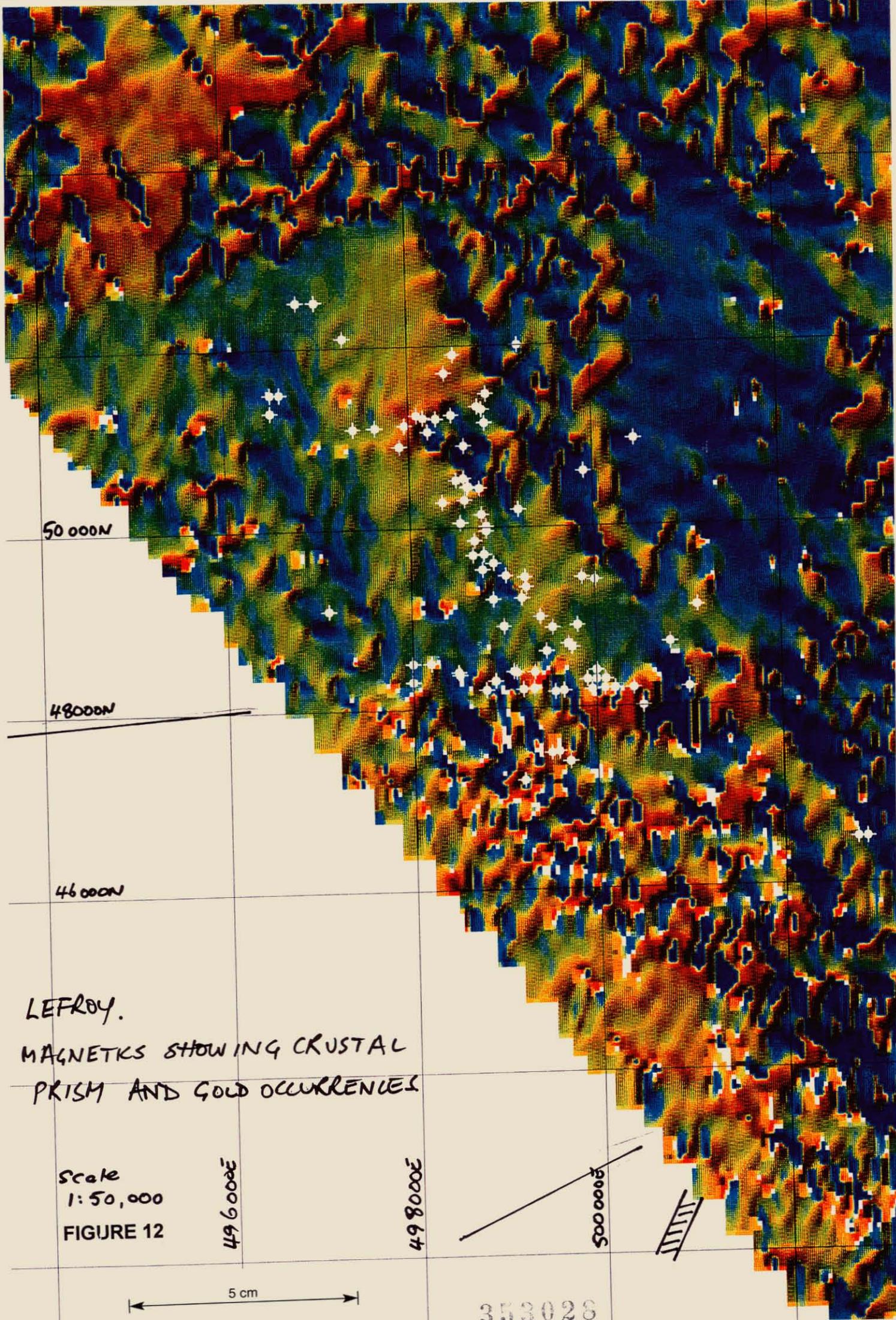


FIG. 11

AEROMAGNETIC TRENDS IN NETGOLD DATA - LEPROY - PIPERS RIVER REGION

- | | |
|----------------------|-------------------|
| PC = Pingora-Chum | DC = DEN CREEK |
| NY = Native Youth | G = The Glen. |
| VOL = Volunteer | BC = BACK CREEK |
| NI = Native Industry | M-L = MAJOR-LEURA |



50 000N

48 000N

46 000N

LEFROY.
MAGNETICS SHOWING CRUSTAL
PRISM AND GOLD OCCURRENCES

Scale
1:50,000
FIGURE 12

49 6000E

49 8000E

500000S

5 cm

353028

APPENDIX 1

**SOIL SAMPLE RESULTS
MONARCH-LONDONDERRY AREA.**

47200N

Uniq No	Sample No	Au ppb	As ppm	Easting	Northing	Soil Type	Comments
966	210852	<5		499000	5447200	B, grey/tan	Good, mainly silty sediment
967	210853	<5		499040	5447200	B, tan/grey	Good, nr road
968	210854	<5		499080	5447200	B, grey/tan	Reasonable, 25" depth
969	210855	<5		499120	5447200	B-C, tan/dark	Good, 14" depth, on old track, 5-10% qtz, Fe stain rock chips
970	210856	<5		499160	5447200	B-C, tan/dark	Good, 14" depth, on old track, 5-10% qtz, Fe stain rock chips
971	210857	<5		499200	5447200	B, tan	Good, ground disturbed, old shaft 5m N
972	210858		13	499240	5447200	B, tan/grey	Good, 20" depth, qtz and sst pebbles
973	210859		7	499280	5447200	B, grey	Reasonable, 25"+ depth, poss disturbed by old workings
974	210860		22	499320	5447200	B, grey	Poor, ground disturbed by old workings, 4m N of peg
975	210861		34	499360	5447200	B, grey	Reasonable, sloping creek bank, ground disturbed by old workings
976	210862		7	499400	5447200	C, grey/tan	Good, on top of rocky o/c
977	210863	<5		499440	5447200	B-C, grey/tan	Good, rock chips & pebbles in soil
978	210864	<5		499480	5447200	B, tan	Good, 18" depth, some qtz
979	210865	<5		499520	5447200	B, tan	Good, 25" depth
980	210866	<5		499560	5447200	B, tan	Good, some qtz pebbles in soil
981	210867	<5		499600	5447200	B, grey	Poor, 28-30", not through leached soils, mainly fine seds
982	210868	<5		499640	5447200	B, grey	Poor, 28-30", mainly leached soils
983	210869	<5		499680	5447200	B, grey/?tan	Good, 35" v. deep, 20% qtz pebbles, partly leached soils
984	210870	<5		499720	5447200	B, grey	Poor, unable to break through leached soils, some qtz
985	210871	<5		499760	5447200	B, grey	Poor, east of creek, mainly leached material, unable to gain depth

47100N

Uniq No	Sample No	Au (ppb)	As (ppm)	Easting	Northing	Soil Type	Comments
1086	212841	<5		499100	5447100	B, tan	Good
1087	212842	<5		499140	5447100	B, grey/tan	Reasonable, >40cm depth
1088	212843	<5		499180	5447100	B, grey/tan	Good
1089	212844	<5		499220	5447100	B/C, tan	Good, rock & scree
1090	212845		8	499260	5447100	B, tan	Good, 5% qtz
1091	212846	<5		499300	5447100	B, grey/tan	Reasonable
1092	212847	<5		499340	5447100	B, grey/tan	Reasonable
1093	212848	<5		499380	5447100	B, grey/tan	Good
1094	212849	<5		499420	5447100	B, tan	Good
1095	212850	<5		499460	5447100	B, grey/tan	Reasonable
1096	212851	<5		499500	5447100	B, grey/tan	Reasonable
1097	212852	<5		499540	5447100	B, tan	Good
1098	212853	<5		499580	5447100	B, tan	Good, beside track
1099	212854		6	499620	5447100	B, tan	Good, from old N-S trench wall
1100	212855	<5		499660	5447100	B, tan	Good, 10-15% qtz
1101	212856	<5		499680	5447100	B, tan	Good, 10% qtz, abund qtz on surface

47300N

Uniq No	Sample No	Au (ppb)	As (ppm)	Easting	Northing	Soil Type	Comments
1102	212857	<5		499100	5447300	B,tan	Good
1103	212858	<5		499140	5447300	B,tan	Good
1104	212859	<5		499180	5447300	B;grey/tan	Reasonable
1105	212860	10		499220	5447300	B;grey/tan	Reasonable,30cm deep
1106	212861	18		499260	5447300	B;grey/tan	Reasonable
1107	212862	22		499300	5447300	B,tan	Good,steep slope
1108	212863	7		499340	5447300	B,tan	Good
1109	212864	12		499380	5447300	B;grey/tan	Reasonable,5-10m from creek
1110	212865	<5		499420	5447300	B,grey	Reasonable,steep hill
1111	212866	<5		499460	5447300	B,tan	Good,5m E of peg
1112	212867	<5		499500	5447300	B,tan	Good
1113	212868	27		499540	5447300	B,tan	Good,side of track
1114	212869	6		499580	5447300	B,tan	Good,slight valley,20% qtz
1115	212870	<5		499620	5447300	B,tan	Good,5% qtz
1116	212871	7		499660	5447300	B,tan	Good,old workings
1117	212872	<5		499680	5447300	B,tan	Good,10-15m depp shafts,trenches,pits etc

47400N

Uniq No	Sample No	Au (ppb)	As (ppm)	Easting	Northing	Soil Type	Comments
1118	212873	<5		499100	5447400	B,tan	Good
1119	212874	17		499140	5447400	B,tan	Good,rock scree
1120	212875	<5		499180	5447400	B,tan	Good,5% qtz,S facing slope
1121	212876	<5		499220	5447400	B,tan/grey	Reasonable
1122	212877	<5		499260	5447400	B,tan/grey	Reasonable,ground distu
1123	212878	6		499300	5447400	B,tan/grey	Good,some rock scree
1124	212879	21		499340	5447400	B,tan	Good
1125	212880	<5		499380	5447400	B,grey	Reasonable,0.5m depth,poor ground W side of creek
1126	212881	34		499420	5447400	B;grey/tan	Reasonable,rock chips
1127	212882	48		499460	5447400	B,tan	Good
1128	212883	<5		499500	5447400	B;grey/tan	Good
1129	212884	6		499540	5447400	B,tan	Good, on side of track
1130	212885	5		499580	5447400	B,tan	Good
1131	212886	5		499620	5447400	B,tan	Good
1132	212887	7		499660	5447400	B,tan	Good
1133	212888	5		499680	5447400	B,tan	Good

Uniq No	Sample No	Au ppb	As ppm	Easting	Northing	Soil Type	Comments
986	210872	<5		499000	5447500	B,tan	Good,some qtz,sst pebbles on surface
987	210873	<5		499040	5447500	B-C,tan	Good,little soil available,rock chips
988	210874	<5		499080	5447500	B,tan	Good,10-15%qtz
989	210875	<5		499120	5447500	B,tan	Good,10"depth,50-60%qtz,Fe stain pebbles
990	210876	<5		499160	5447500	B,tan	Good,high on ridge sloping S
991	210877	<5		499200	5447500	B,tan	Good,2-5%qtz
992	210878	10		499240	5447500	B-C,tan	Good,close to o/c
993	210879	6		499280	5447500	B,tan	Good,5m S of peg
994	210880	54		499320	5447500	B,tan	Good,some qtz
995	210881	11		499360	5447500	B-C,greyltan	On top of sst o/c,steep slope nr creek
996	210882	<5		499400	5447500	B,greyl	Poor sample,unable to gain depth
997	210883	9		499440	5447500	B,greyltan	Reasonable,30"deep,leached soils?
998	210884	<5		499480	5447500	B,tan/greyl	Good,25"deep
999	210885	<5		499520	5447500	B,tan	Good,some qtz,nr old track
1000	210886	<5		499560	5447500	B,tan	Good
1001	210887	<5		499600	5447500	B,tan	Good,ground disturbed by old workings,10%qtz
1002	210888	<5		499640	5447500	B,tan	Good,top of ridge,old shafts 20m N,many trenches
1003	210889	7		499680	5447500	B,tan	Good,old workings
1004	210890	<5		499720	5447500	B,tan	Good,W of creek,on W slope,20"deep
1005	210891	<5		499760	5447500	B,tan	Good,on W side of creek,some qtz
1006	210892	<5		499800	5447500	B,tan	Good,S facing slope

47600N

Uniq No	Sample No	Au (ppb)	As (ppm)	Easting	Northing	Soil Type	Comments
1134	212889	<5		499100	5447600	B,tan	Good,big shaft 40m NW of peg
1135	212890		6	499140	5447600	B,tan	Good,ridge top
1136	212891	<5		499180	5447600	B,tan	Good,ridge top
1137	212892		1500	499220	5447600	B,tan	Good
1138	212893	<5		499260	5447600	B,tan	Good,W of creek
1139	212894		7	499300	5447600	B,tan	Good,W of creek
1140	212895		6	499340	5447600	B,tan	Good,nr track on ridge
1141	212896	<5		499380	5447600	B,tan	Good,E-facing slope W of creek
1142	212897		11	499420	5447600	B,tan/greyl	Reasonable,10% qtz
1143	212898		11	499460	5447600	B,tan	Good,0.5m depth,just off track
1144	212899		27	499500	5447600	B,tan	?Good,poss contamination,groun disturbed
1145	212900		15	499540	5447600	B,tan	OK,ground disturbed
1146	212901		6	499580	5447600	B,tan	Good,5%qtz
1147	212902		8	499620	5447600	B,tan	Good
1148	212903		6	499660	5447600	B,tan	Good,small shaft 10m Nth
1149	212904		7	499680	5447600	B,tan	Good,eastern slope of ridge

353032

47700N

Uniq No	Sample No	Au ppb	As ppm	Easting	Northing	Soil Type	Comments
1006	210892	<5		499000	5447700	B,tan	Good,S facing slope
1007	210893	<5		499040	5447700	B,tan	Good,from above tunnel,poss contaminated
1008	210894	<5		499080	5447700	A,gre	Poor,on creek valley
1009	210895	<5		499120	5447700	C,tan	Poor,mainly rock chip from roadside wall
1010	210896	<5		499160	5447700	B,tan	Good,some qtz
1011	210897	<5		499200	5447700	B,tan	Good,some qtz
1012	210898	<5		499240	5447700	B,tan	Good,some qtz
1013	210899	<5		499280	5447700	B,tan	Good,20%qtz,on creek valley
1014	210900		9	499320	5447700	B,tan	Good,10%qtz
1015	210901	<5		499360	5447700	B,tan	Good,v. little qtz
1016	210902	<5		499400	5447700	B,tan	Good
1017	210903	<5		499440	5447700	B,tan	Good,W slope of main ridge
1018	210904		30	499480	5447700	B,tan	Good,on S slope,some qtz
1019	210905	<5		499520	5447700	B,tan	Good,on S slope
1020	210906		10	499560	5447700	B,tan	Good,on S slope,some qtz
1021	210907	<5		499600	5447700	B,tan	Good,on S slope
1022	210908	<5		499640	5447700	B,tan	Good,top of ridge,some qtz
1023	210909	<5		499680	5447700	B,tan	Good E slope
1024	210910	<5		499720	5447700	B,tan	Good,W side of creek,some qtz
1025	210911	<5		499760	5447700	B,tan	Good,10%qtz,E side of creek

323033

- Au/As ratio (all field).
- As only A, B. vs C.

47900N

Unique No	Sample No	Au (ppb)	As (ppm)	Easting	Northing	Soil Type	Comments
899	210785	<5	3	499000	5447900	B,tan/grey	Good, 2%qtz
900	210786	<5	4	499040	5447900	B,tan	Good, 2%qtz
901	210787	<5	4	499080	5447900	B,tan/grey	Good
902	210788	<5	4	499120	5447900	B,Grey	Reasonable, creek valley 20"
903	210789	<5	6	499160	5447900	B,tan	V. good
904	210790	<5	8	499200	5447900	B,tan	Good, from road cut wall
905	210791	<5	4	499240	5447900	B,tan/grey	Good, 10-15% qtz
906	210792	<5	5	499280	5447900	B,tan	V. good
907	210793	<5	5	499320	5447900	B,tan	V. good
908	210794	<5	7	499360	5447900	B,grey	Poor
909	210795	<5	5	499440	5447900	C,tan/grey	Good
✓ 910	210796	21	13	499440	5447900	B/C,tan/grey	Good, on ridge top
911	210797	<5	9	499480	5447900	B,tan	Good, on ridge top
912	210798	9	6	499520	5447900	B,tan/grey	Good, 5% qtz
913	210799	6	11	499560	5447900	B,tan	Good, east slope of ridge
914	210800	<5	6	499600	5447900	B,tan	Good
915	210801	<5	15	499640	5447900	B,tan/grey	Good, 20" depth
916	210802	<5	8	499680	5447900	B,tan	Good
917	210803	<5	6	499720	5447900	B,tan	Good
918	210804	<5	4	499760	5447900	B,tan/grey	Good, 20" depth, 5-10% qtz
919	210805	<5	3	499800	5447900	B,grey/tan	Reasonable, 60-70%
920	210806	7	5	499840	5447900	B,tan	Good
921	210807	<5	5	499880	5447900	B,tan	Good
922	210808	10	5	499920	5447900	B,tan	Good
923	210809	<5	4	499980	5447900	B,tan	Good
924	210810	<5	4	500000	5447900	B,tan/grey	Good, by creek of 20% depth

353034

48000N

Uniq No	Sample No	Au (ppb)	As (ppm)	Easting	Northing	Soil Type	Comments
925	210811	5	13	499000	5448000	B,tan	Good
926	210812	<5	5	499040	5448000		
927	210813	<5	4	499080	5448000	B,tan	Good
928	210814	<5	4	499120	5448000	B,tan/grey	Good
929	210815	7	4	499160	5448000	B,tan	Good
930	210816	<5	4	499200	5448000	B,tan	Good
931	210817	5	3	499240	5448000	B,tan	Good, from trench wall
932	210818	<5	4	499280	5448000	B,grey/tan	Good, 2% qtz, ground 25"
933	210819	<5	5	499320	5448000	B,tan	Good, western slope of main ridge
934	210820	<5	2	499360	5448000	B/C,grey	Reasonable
935	210821	6	9	499400	5448000	B,grey	Good
936	210822	8	30	499440	5448000	B,tan	Good, eastern slope
963	210849	<5	27	499480	5448000	B,tan	Good on eastern slope of ridge
964	210850	<5	12	499520	5448000	B,tan/grey	Good, 20% depth on eastern slope of ridge

W/12

353035

Uniq No	Sample No	Au (ppb)	As (ppm)	Easting	Northing	Soil Type	Comments
1150	212905	6		499350	5447000	B:grey	Reasonable,very deep 0.5m,20%qtz
1151	212906	6		499350	5447020	B:grey	Reasonable,very deep,10%qtz
1152	212907	7		499350	5447040	B:tan	Good
1153	212908	12		499350	5447060	B:tan	Good
1154	212909	59		499350	5447080	B:tan	V good,shaft 15m SE
1155	212910	9		499350	5447100	B:tan	Good
1156	212911	7		499350	5447120	B:grey	Reasonable,deep overburden
1157	212912	<5		499350	5447140	B:grey	Reasonable,deep overburden
1158	212913	NS		499350	5447160	NS	
1159	212914	11		499350	5447180	B:grey/tan	Reasonable,close to creek,v. steep,some overburden
1160	212915	28		499350	5447200	B:grey/tan	Reasonable,S facing slope between creeks
1161	212916	76		499350	5447220	B-C? grey/tan	Reasonable,rock scree
1162	212917	24		499350	5447240	B-C:tan	Reasonable,rock chips,ground disturbed by logging
1163	212918	9		499350	5447260	B:tan/grey	Reasonable
1164	212919	18		499350	5447280	B:tan/grey	Reasonable
1165	212920	12		499350	5447300	B:tan	Good
1166	212921	27		499350	5447320	B:tan	Good
1167	212922	10		499350	5447340	B:tan/grey	Reasonable,rock scree with sample
1168	212923	86		499350	5447360	B:grey/tan	Good,line goes along E facing slope
1169	212924	20		499350	5447380	B:grey/tan	Reasonable
1170	212925	31		499350	5447400	B:tan/grey	Reasonable,0.5m depth
1171	212926	6		499350	5447420	B:grey	Poor(possibly),deep overburden,0.5m depth
1172	212927	6		499350	5447440	B:grey	Poor(possibly),deep overburden,0.5m depth
1173	212928	15		499350	5447460	B:tan/grey	Good
1174	212929	46		499350	5447480	B:tan	Good,from old shaft wall
1175	212930	11		499350	5447500	B:tan/grey	Reasonable,rock chips scree
1176	212931	9		499350	5447520	B:tan	Good,sst scree
1177	212932	7		499350	5447540	B:tan	Good,sst scree
1178	212933	8		499350	5447560	B:tan	Good,some ground disturbed
1179	212934	7		499350	5447580	B:tan	Good
1180	212935	8		499350	5447600	B:tan	Good
1181	212936	11		499350	5447620	B:tan	Good
1182	212937	28		499350	5447640	B:tan	V good
1183	212938	5		499350	5447660	B:tan	Good
1184	212939	<5		499350	5447680	B:tan	Good
1185	212940	8		499350	5447700	B:tan	Good,a few qtz pebbles

499480E

Uniq No	Sample No	Au (ppb)	As (ppm)	Easting	Northing	Soil Type	Comments
1186	212941	9		499480	5447200	B:tan	Good,repeat previous sample
1187	212942	5		499480	5447220	B:tan	Good
1188	212943	15		499480	5447240	B:tan	Good
1185	212944	9		499480	5447260	B:tan	Good
1190	212945	62		499480	5447280	B:tan/grey	Good,nr small shaft,ground disturbed
1191	212946	5		499480	5447300	B:grey/tan	Reasonable sample,v. deep,lots of qtz
1192	212947	<5		499480	5447320	B:tan	Good
1193	212948	6		499480	5447340	B:tan/grey	Reasonable,v. deep
1194	212949	20		499480	5447360	B:tan/grey	Reasonable,v. deep
1195	212950	11		499480	5447380	B:tan	Good
1196	212951	37		499480	5447400	B:tan	Good,slightly disturbed
1197	212952	7		499480	5447420	B:tan	Good
1198	212953	<5		499480	5447440	B:tan	Good
1199	212954	10		499480	5447460	B:tan	Good
1200	212955	<5		499480	5447480	B:tan	Good
1201	212956	9		499480	5447500	B:tan/grey	Good,repeat of old sample
1202	212957	13		499480	5447520	B:tan/grey	Good
1203	212958	37		499480	5447540	B:tan	Good,ground disturbed
1204	212959	29		499480	5447560	B:tan	Good,taken 5m W of line,nr New Monarch workings
1205	212960	9		499480	5447580	B:grey	Poor possibly,over 0.5m deep
1206	212961	6		499480	5447600	B:tan	from old shaft wall,10%qtz, part of lode?
1207	212962	16		499480	5447620	B:tan	OK,poss contaminated from New Monarch workings
1208	212963	22		499480	5447640	B:tan	Good,from nr big shaft,should not be contaminated
1209	212964	<5		499480	5447660	B:tan	Good
1210	212965	<5		499480	5447680	B:tan	Good,old workings nearby
1211	212966	24		499480	5447700	B:tan	Good
1212	212967	<5		499480	5447720	B:tan	Good
1213	212968	<5		499480	5447740	B:tan	Good
1214	212969	17		499480	5447760	B:tan	Good
1215	212970	<5		499480	5447780	B:tan	Good,very steep slope
1216	212971	<5		499480	5447800	B:tan	Good,v. steep slope facing W

499550E

339	210223	<5	9	499550	5448000 B-C, grey	Old workings nearby
822	210708	<5	12	499550	5447000 B, tan	Good, 5% qtz,
823	210709	<5	10	499550	5447040 B, grey/tan	Good, some qtz, head waters of a small creek
824	210710	<5	25	499550	5447080 B, tan	Good
825	210711	<5	30	499550	5447100 B, tan	Good
826	210712	<5	<1	499550	5447140 B, grey	Poor, mainly sand & some qtz gravel
827	210713	<5	10	499550	5447180 B, tan	Good
828	210714	92	65	499550	5447220 B, tan	Good
829	210715	<5	1	499550	5447260 A, grey	Poor, sands, 25" depth, organic matter
830	210716	<5	7	499550	5447300 B, tan	Good
831	210717	<5	6	499550	5447340 B, tan	Good
832	210718	6	5	499550	5447380 B, grey	Reasonable, some qtz, deep
833	210719	<5	9	499550	5447420 B, grey/tan	Good, 5% qtz
834	210720	<5	17	499550	5447460 B, tan	Good
835	210721	<5	9	499550	5447500 B, tan	V good, lots of old workings
836	210722	<5	2	499550	5447540 A, grey	Poor, 25" depth, mainly qtz gravel & sands
837	210723	24	4	499550	5447580 A, grey	Poor, 25" depth, mainly sands & gravels
838	210724	41	37	499550	5447620 B, grey/tan	Poor, collected mid stream catchment, old workings and shafts
839	210725	<5	22	499550	5447660 B, tan	Good, ground badly disturbed by old workings, 5m W of peg
840	210726	78	77	499550	5447700 B, tan	Good, small trench 3m S
841	210727	25	34	499550	5447740 B, tan	Good, old workings 20m N
842	210728	<5	19	499550	5447780 B, tan/grey	Good, southern ridge slope
843	210729	<5	13	499550	5447820 B, tan	Good, near ridge top
844	210730	7	12	499550	5447860 B, tan	Good
845	210731	<5	9	499550	5447900 B, tan	Good
846	210732	<5	5	499550	5447940 B, tan	Good, 5% qtz
847	210733	<5	10	499550	5447980 B, tan/grey	Good, 10% qtz, nr old workings