

NORMANDY NFM Limited

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FINAL REPORT FOR EL 8803 (SYRENE)

for the period **29/04/1999** to **03/04/2003**

Western Tanami Project NORTHERN TERRITORY

Volume 1 of 1

1:250,000 SHEET: The Granites SF52-03

1:100,000 SHEET: MacFarlane 4757

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DISTRIBUTION: □ Northern Territory Department of Business, Industry &

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JUNE 2003 NEWMONT CR 31110

SUMMARY

EL8803 was formerly a part of the Western Non-TGEA Project, and was located in the Tanami desert region approximately 130km west-north-west of the Granites Gold Mine. The licence was granted on the 29th April 1999. During 1999, Normandy NFM negotiated an agreement with the NT DME to provide technical reports on the Project Area for an entire field season rather than the anniversary year. A submission date of the 30th April each year was established for a report covering the exploration for the previous year. Originally this project group was comprised of 4 licences (EL's 8803 & 8999 (Syrene & Medussa), EL 8825 (Lucky's Bore) and EL 8593 (Nora)). During 2002 EL's 8999 and 8593 were relinquished in full and final reports were completed and sent to NTDBIRD.

This is the final annual report for EL8803 (Syrene) covering all work completed on the licence from 29th April 1999 until the 3rd April 2003. The licence was incorporated with EL 6859 and EL 7122 into SEL23661, which was granted on April 3, 2003.

The following is a summary of all work completed over the licence during the period of tenure:

Gridding: 14.6 line km
Ground Magnetics Survey: 13.6 line km
Rock chip sampling: 28 samples
Lag sampling: 230 samples

Soil sampling:
 40 BCL samples, 383 Soil samples

Vacuum Drilling:
 115 holes, 894.7m, 206 BOH samples, 82 DSL samples

RAB Drilling: 76 holes, 2435m, 813 samples

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1. INTRODUCTION

This report comprises all work completed over EL8803 (Syrene) for the period 29/04/1999 to 03/04/2003.

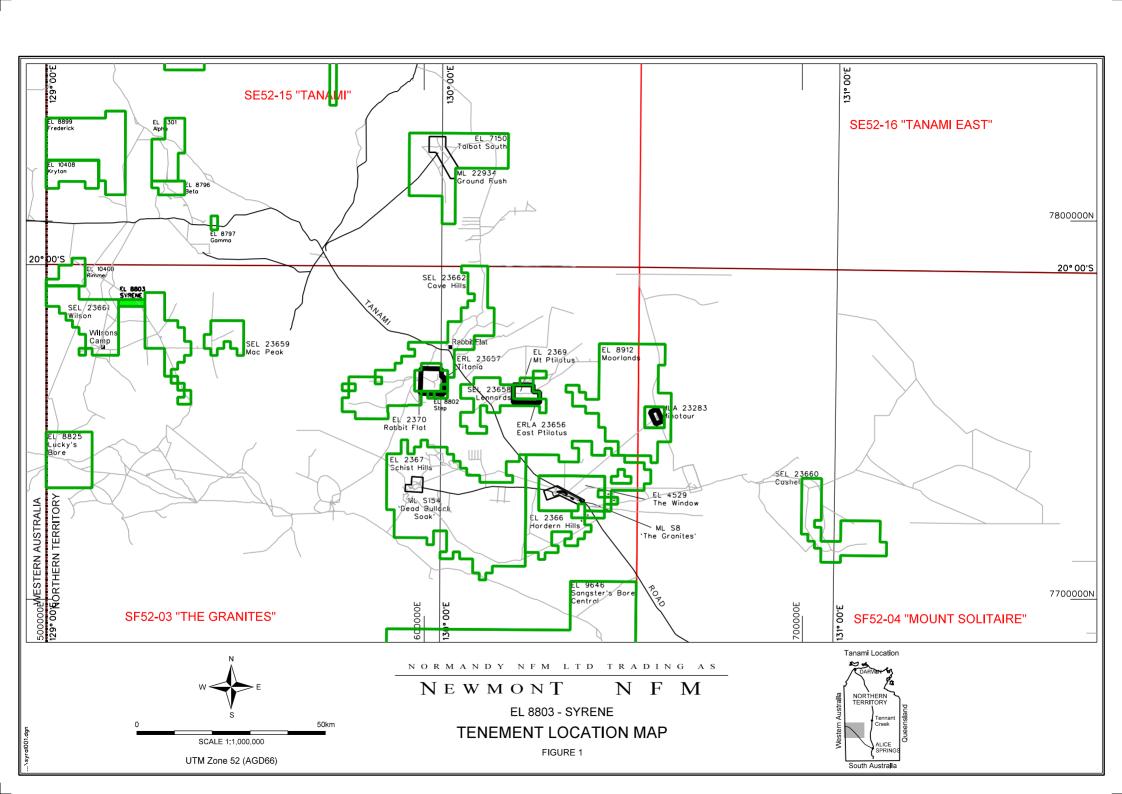
The licence is located to the south of the Tanami Road, within Aboriginal Freehold land approximately 130km west north west of the Granites Gold Mining Operations (Figure 1). Access to the Project area is via the Wilsons Camp Road, a well-formed road extending south for 40 km from its junction with the Tanami Highway, 20km east of the Western Australian border. Access within the EL is then via graded tracks.

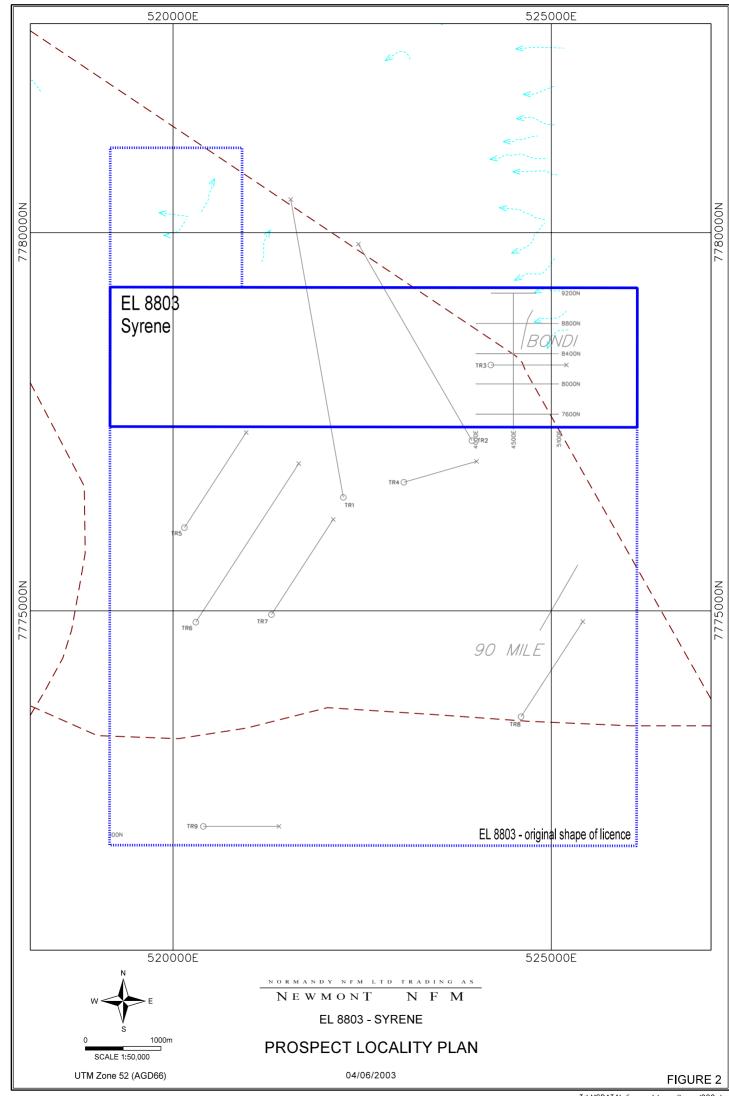
Exploration Licences 8803, 8999, 8593 & 8825 were granted to Normandy NFM on 29th April 1999 for a period of six years. Access to EL's 8803 & 8999 and approval of proposed Work Programs was granted by the CLC on 7th July, 1999 allowing work to commence in the second half of the field season.

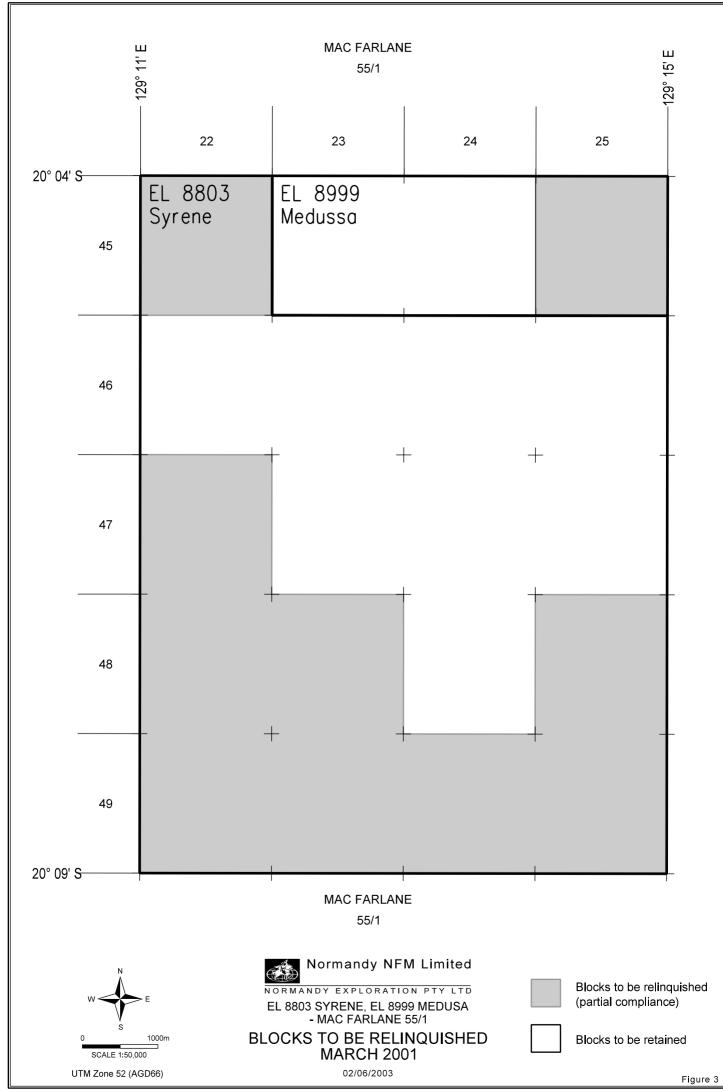
The first relinquishment reduced the licence by 9 blocks in 2001. During 2002 a second relinquishment of the 50% of the licence took place. EL 8803 was relinquished in full on the 3rd April 2003.

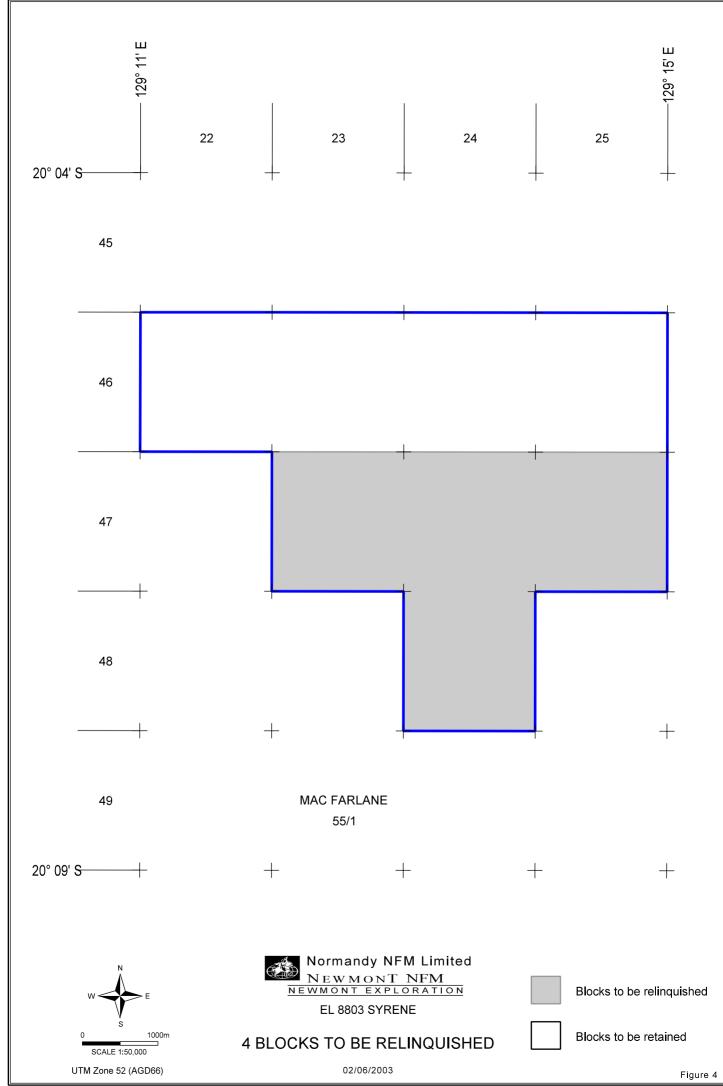
Table 1: EL8803 Syrene Tenement Summary

	Date	Blocks Relinquished	Holding (Blocks)	Km²
Grant Date	29/04/1999		17	54.6
First Relinquishment	28/03/2001	9	8	25.7
Second Relinquishment	25/04/2002	4	4	12.9
Final Relinquishment	03/04/2003	4	0	0
Expiry Date/Cessation	28/04/05			









2. LOCATION, INFRASTRUCTURE, ACCESS, SURVEY CONTROL & ENVIRONMENTAL PRACTICE

2.1 Location, Access & Physiography

EL 8803 (Syrene) is located in the Tanami Desert region, approximately 130km WNW of the Granites Gold Mine. The area is covered by the Granites (SF52-3), 1:250 000 series map sheet, as shown on Figure 1.

The Project area is dominated by variable thicknesses of alluvial cover, the depth of which is greatest within palaeodrainage channels. Areas of subcropping to outcropping Palaeo-Proterozoic lithologies generally form low to moderate sized hills.

Sparse spinifex plains with isolated eucalypts are the typical vegetation found in the project area. Dense stands of mulga punctuate the landscape, but are usually no more than a few square kilometres in areal extent. Other vegetation includes shrubs (cassia) and low trees (mallee, tea tree and hakea). There are no permanent or perennial watercourses in the area.

2.2 Infrastructure

Prior to the presence of NFM in this part of the Tanami region, infrastructural support was almost completely lacking. Currently, supplies are trucked or flown to permanent camps at The Granites (within EL4529) from Alice Springs. All camps are serviced by telephone and fax using microwave links. Water is provided by two remote borefields. One borefield lies 35km east of The Granites (Billabong) and the other 10km north-east of Dead Bullock Soak. A single bore supplies the Wilsons camp. Power is locally generated at exploration bases and mine sites. The nearest settlements are the Rabbit Flat roadhouse 50km to the northwest of The Granites on the Tanami Road, and Tanami Downs homestead 60km to the west. The nearest town is Yuendumu some 250km southeast of The Granites on the Tanami Road.

2.3 Access

Access to the area is by air or via the Tanami Road. A basic network of pre-existing and newly formed tracks link individual prospect areas to the three major NFM camps at The Granites, Dead Bullock Soak and Wilsons (Figure 1). A bitumen ore haulage road connects the Dead Bullock Soak mining/exploration camp with The Granites camp facilities.

2.4 Survey Control

Initial survey control has been established over the current exploration licences by Company and contract surveyors.

All survey marks have been tied to the Australian Map Grid with trigonometrical survey station control. Extensive use is made of Global Positioning System equipment by staff engaged in regional exploration.

2.5 Environmental Practice

Rehabilitation of exploration sites was carried out pursuant to Section 24(e) of the NT Mining Act and in accordance with the Departments "Guidelines for Rehabilitation of Exploration Sites",

- all drillholes were capped on completion,
- all grid lines and tracks were rehabilitated when no longer needed.

3. PREVIOUS EXPLORATION

The licence was first held by the Power and Nuclear Corporation Pty Ltd (PNC) from 1988 to 1991 as EL 4829. In the subsequent period 1991 to 1994 Western Mining Corporation (WMC) held the ground under agreement with PNC as SEL 7423. No field work was conducted by WMC.

PNC was exploring throughout the region for uranium mineralisation by targeting anomalies generated from airborne magnetic and radiometric surveys. A high intensity magnetic feature (now the Bondi Prospect in EL 8803) was targeted as part of this project. Field reconnaissance and mapping were completed revealing the source of the magnetic anomaly to be multiple intrusives of syenitic to monzonitic composition.

A limited program of rotary air blasting (RAB) drilling and geochemical testing was conducted to test the intrusives for uranium mineralisation. Bulk samples also were collected to test for the potential for diamonds. Two micro-diamonds were identified leading to a program of diamond drilling and a 10 tonne bulk alluvial sample. When no further diamonds were found, the petrological analysis of the diamonds was interpreted to indicate 'offset' contamination. Of the geochemical sampling program, only three samples were analysed for Au. One of these returned 0.1g/t Au.

4. EXPLORATION OBJECTIVES

Exploration and mine studies have indicated that gold mineralisation in the region has an association with a range of geological environments. Models of gold occurrence for which the Tanami is believed to be most prospective include:

- Disseminated, stratabound deposits hosted by banded iron formations;
- Discordant stockwork deposits of gold in relatively late stage quartz veins;
- Gold mineralisation in veins hosted by shear zones with strong alteration characteristics;
- Deposits in regolith containing gold concentrated by alluvial, eluvial or alteritic processes.

With these models in mind, the Company's geologists have selected prospective target exploration areas based on regional geological, structural, geophysical and geochemical data.

The detailed assessment of these targets has been undertaken by a range of exploration techniques, designed to reveal the geology of the target area, and the presence of indicator elements, particularly gold itself, in anomalous quantities.

The task has been made difficult by the very extensive cover of windblown sand and other transported material, which conceals the rock and associated soil, typically to a thickness of several metres. This blanket covers as much as 98% of the region. Consequently the exploration process has relied heavily on point samples obtained by drilling to expose bedrock.

5. GEOLOGY

The Project Area lies astride the Granites - Tanami and Arunta provinces. The relationship between the Granites - Tanami and Arunta provinces is not well understood. Basement metasedimentary sequences in both regions are thought to be lateral equivalents (Blake et al., 1979) and the sequences merge with one another (Stewart et al., 1984).

The Granites - Tanami and the Northern Arunta provinces contain similar rock sequences and share similar Palaeoproterozoic magmatic, metamorphic and deformational histories. Both comprise of a deformed Palaeoproterozoic basement turbiditic sequence of greywacke, quartz sandstone, siltstone, shale, and minor mafic rocks and their moderate to high grade metamorphic equivalents (schist, gneiss, quartzite, amphibolite). The Tanami Block also contains chert, pyritic carbonaceous sediments and ironstone, whereas the Arunta Block has minor calc-silicates and meta-felsic volcanics (felsic orthogneiss).

During the Barramundi Orogeny (1890-1850 Ma, Page and Williams, 1988), the sedimentary sequences in the Arunta were intruded by mafic rocks, deformed and metamorphosed up to amphibolite facies. Granite plutons were emplaced in the closing stages of the Barramundi Orogeny, at about 1820 - 1800 Ma

In the Arunta province, platform quartzite-shale-carbonate sediments (Reynolds Range Group) unconformably overlie the Barramundi metamorphic rocks and probably represent correlatives of the Hatches Creek Group of the Davenport Province to the north (Blake et al. 1987). Deformation of the Hatches Creek Group preceded granite intrusion at about 1660 Ma (Page and Williams 1988) and involved an early phase of upright northwest-trending folds and a second episode of northeast-trending folds. Faulting, thrusting and metamorphism accompanied both episodes of folding.

The Arunta province remained tectonically active after the Barramundi Orogeny with several metamorphic and deformational events, including the ~1800 Ma Strangways granulite event (Shaw et al, 1984), the 1760-1650 Ma Aileron retrogressive event (Windrim and McCulloch, 1986) and the most recent Carboniferous Alice Springs Orogeny. In the northern Arunta region, significant granitic magmatism occurred at 1780-1770, 1713, 1635 and 1570 Ma.

The basement provinces described above are unconformably overlain by younger, Neoproterozoic and Palaeozoic sediments of the Birrindudu, Wiso, Georgina and Ngalia basins (Wells and Moss, 1983).

The geology of the northern half of the project is dominated by Palaeo-Proterozoic sediments intruded by felsic to intermediate igneous bodies, with minor Antrim Plateau Volcanics. The southern half of the project, including the Luckys Bore Tenement, is dominated by Palaeozoic sequences overlying granitoid and possible Tanami Complex lithologies at depth.

6. WORK COMPLETED 1st Year of Tenure

The 1999 work program consisted of initial reconnaissance lag sampling incorporating opportunistic rock chip sampling. A program of broad spaced RAB drilling and ground magnetics survey traverses were also completed to develop an understanding of the regolith, depth of cover and nature of the bedrock across the license. A number of samples from both the surface sampling and drilling programs were also sent for petrological analysis. Prospect based work included infill soil sampling over the Bondi Syenite and 90 Mile Prospects and ground magnetic surveys.

Work for the period included:

Gridding
Ground Magnetics Survey
Lag Sampling
Rock Sampling
Soil Sampling
RAB Drilling
14.6 line km
228 samples
24 samples
383 samples
RAB Drilling
24 holes, 854m, 283 samples

Petrology 5 samples

6.1 Reconnaissance Exploration

6.1.1 Surficial Sampling

Reconnaissance scale lag and CRC samples were collected throughout the Syrene licence (EL 8803) in areas with regolith and landform amenable to surficial sampling. Lag sample coverage is on a reducing scale of: a) 1000m x 500m reconnaissance to; b) 500m x 500m in areas of interest to; c) 250m x 250m / 500m infill in areas of geochemical encouragement. Rock chip samples were collected opportunistically from various rock types and any quartz veins and potential mineralisation.

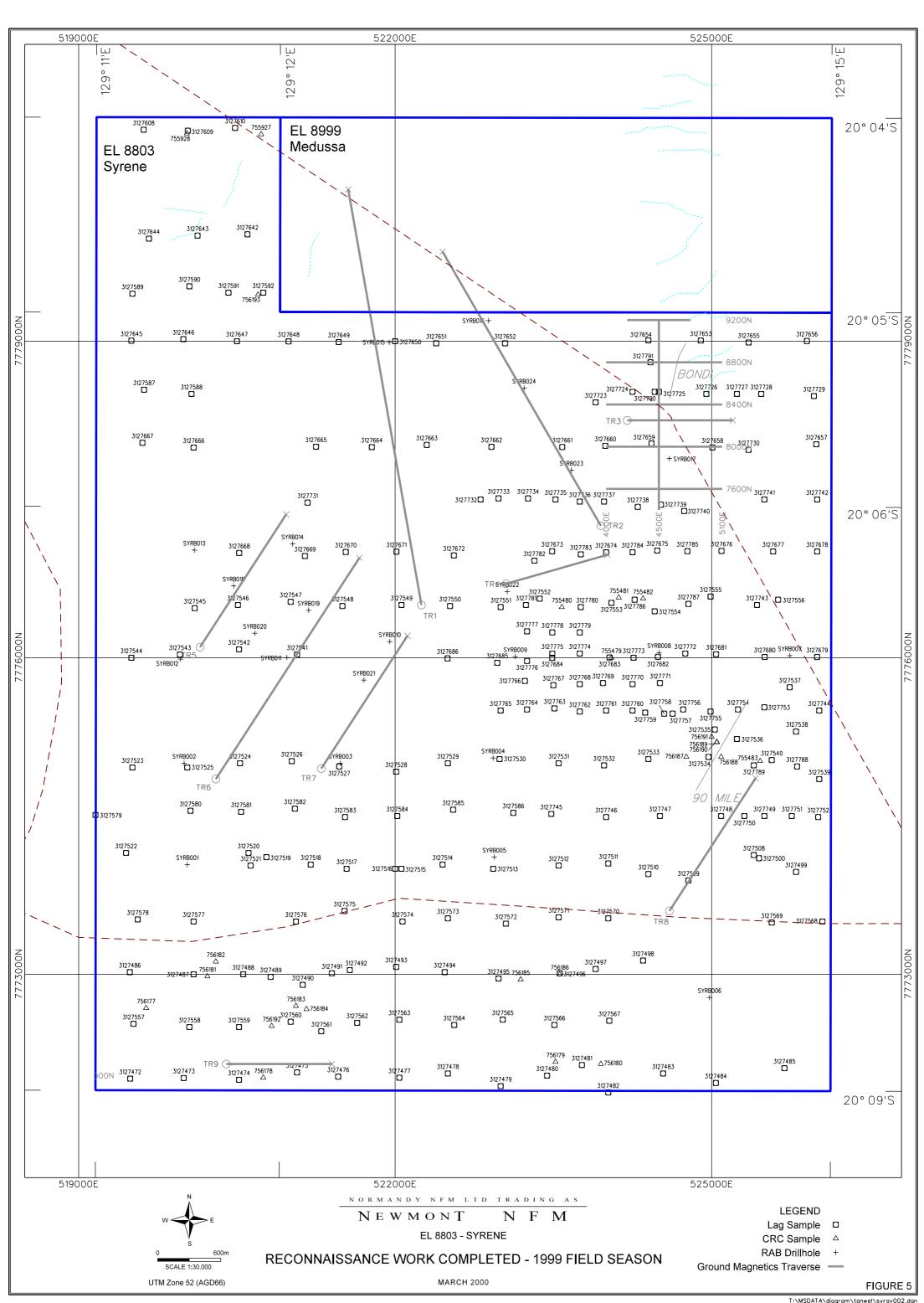
The objectives of the program were to locate and define any mineralisation in outcropping or subcropping domains. Sample distributions are shown on Figure 5. A summary of sample statistics is given in Tables 2 & 3 and data is displayed in Appendix 1.

Table 2: Lag Sample Details

Sample ID	Genalysis Method	Elements	Total Samples
3127472-481; 3127483-500; 3127508- 537; 3127539- 578, 3127580- 592,	B*ETA	Au	
3127608- 610, 3127642- 686, 3127723- 791	A/MS	Ag, As, Bi, Co, Cu, Fe, Mo, Ni, Pb, Sb, Th, U, W, Zn	228
		TOTAL	228

Table 3: CRC Sample Details

Sample ID	Genalysis Method	Elements	Total Samples
755470,400,750477,400,755007,000	B*ETA	Au	0.4
755479-483; 756177-193; 755927-928;	A/MS	Ag, As, Bi, Co, Cu, Fe, Mo, Ni, Pb, Sb, Th, U, W, Zn	24
		TOTAL	24



The initial surficial sampling programs highlighted two areas of anomalism. These were followed up with sample verification and reducing scale infill and definition lag sampling. They are as follows:

An area within EL 8803 returned 0.88ppm Au from a lag sample. A verification sample from the same site returned below detection Au. Several infill lag samples returned weakly anomalous gold up to 3.3ppm Au within 600m of the original sample site.

A number of weak to moderately anomalous gold results were received from an area of north-north-west striking shears and quartz veins in EL 8803 which was subsequently designated as the 90 Mile Prospect. The results received from initial and infill surficial samples were up to 5.6ppb Au in lag and up to 14.5ppb Au in CRC over an area of 800m x 400m.

6.1.2 Gridding

A total of 14.6 line kilometres of gridding were completed to allow for ground magnetics to be carried out at various locations throughout the licence, and to accommodate soil sampling. Refer to Figures 2 & 5 for grid and traverse locations. Eight traverses totalling 17 line km were constructed for a regional ground magnetic survey. A further 6.6 line kilometres of were completed to construct a grid at the Bondi Syenite Prospect for ground magnetic surveying and soil sample control. Another single line kilometre of traverse was constructed at the 90 Mile Prospect for soil sample control. Grids are constructed with wooden pegs using a Garmin GPS to determine a point of origin. The grids are removed once work has been finalised in a given area.

6.1.3 Ground Magnetics Survey

Ground magnetic surveying was conducted on 17 line kilometres of traverses within the licence to accommodate conceptual targeting of magnetic features using RAB drilling. A further 6.6 line kilometres of surveying was completed over the Bondi Syenite Prospect to aid definition of a highly magnetic syenite intrusive.

Details of the ground magnetic surveys are catalogued in Appendix 2. Figure 5 shows the location of the ground magnetic traverses.

6.1.4 RAB Drilling

RAB drilling was conducted at irregular spacings within EL 8803. Refer to Figure 5 for drillhole locations.

The objective of the drilling was to test the depth of regolith and distribution of transported cover sediments and to test a variety of conceptual geological and magnetic targets. A summary of drilling statistics is given in Table 4 and data is collated in Appendix 1.

Table 4: Reconnaissance RAB Drillhole and Sample Details

Drill Hole ID	Total Metres	Sample ID	Amdel Method	Elements	Total Samples
SYRB0001- SYRB0024	854	3225692-3225868 3226301-3226406	ARM1	Ag, As, Au, Bi, Cd, Co, Cu, Mo, Ni, Pb, Sb, Se, Te, Zn	283
TOTAL: 24 holes, 854m, 283 samples					

The drilling phase facilitated a broad assessment of the licence area regolith and bedrock geology.

Drilling encountered a shallow drainage in the centre of EL 8803, partially filled by Cambrian Antrim Plateau Volcanics and an undifferentiated Meso-Proterozoic Birrindudu Group cover sandstone (possibly a local derivative of the Gardiner Sandstone). Tertiary cover over the tenements is limited to 30% of the combined area with <10m of cover.

One RAB hole drilled into the Bondi Syenite returned a significant intersection of continuous downhole gold anomalism (Table 5) in an area of approximately 6 metres of loose sand cover. This information, combined with historical exploration details, generated further interest in the Syenite, prompting a detailed soil survey over the area.

Table 5 lists the best intersections from this program. Refer to Appendix 1 for comprehensive drillhole logs and assays.

Table 5: Best RAB Assay Intersections

Drillhole ID	Intersection	Depth From:	Comments
SYRB0017	24m @ >5ppb Au including 3m @ 0.527g/t Au	12m	Weathered syenite to Monzonite

6.1.5 Petrology

5 representative samples from EL 8803 were sent to Pontifex & Associates for thin section preparation and petrological examination. Full descriptions are submitted as Appendix 3.

6.2 Bondi Syenite Prospect

Following a favourable result from regolith drilling at the Bondi Syenite (3m @ 0.5 g/t Au; SYRB0017), and considering historical exploration in the area, a program of follow-up soil and ground magnetic surveying was undertaken over the Bondi area. A grid was established and surveyed with ground magnetics (Appendix 2). The same grid was utilised for soil sample location control. A total of 332 samples were collected at 400m x 20m spacings. All sampling and gridding was conducted entirely within EL 8803 (Syrene). Soil sample details are displayed in Table 6 and geochemical data is contained in Appendix 1. Sample distributions are shown in Figure 6.

Soil sampling of the Bondi Syenite grid revealed weak intensity gold anomalism in the northern half of the grid area up to 3.1ppb Au over an area of 500m x 200m. A coincident arsenic anomaly (3 to 15ppm As) was defined over an area of 900m x up to 500m. The effectiveness of the program in the southern half of the grid is limited by sand cover of at least 6m depth. Vacuum drilling will be used to complete the survey.

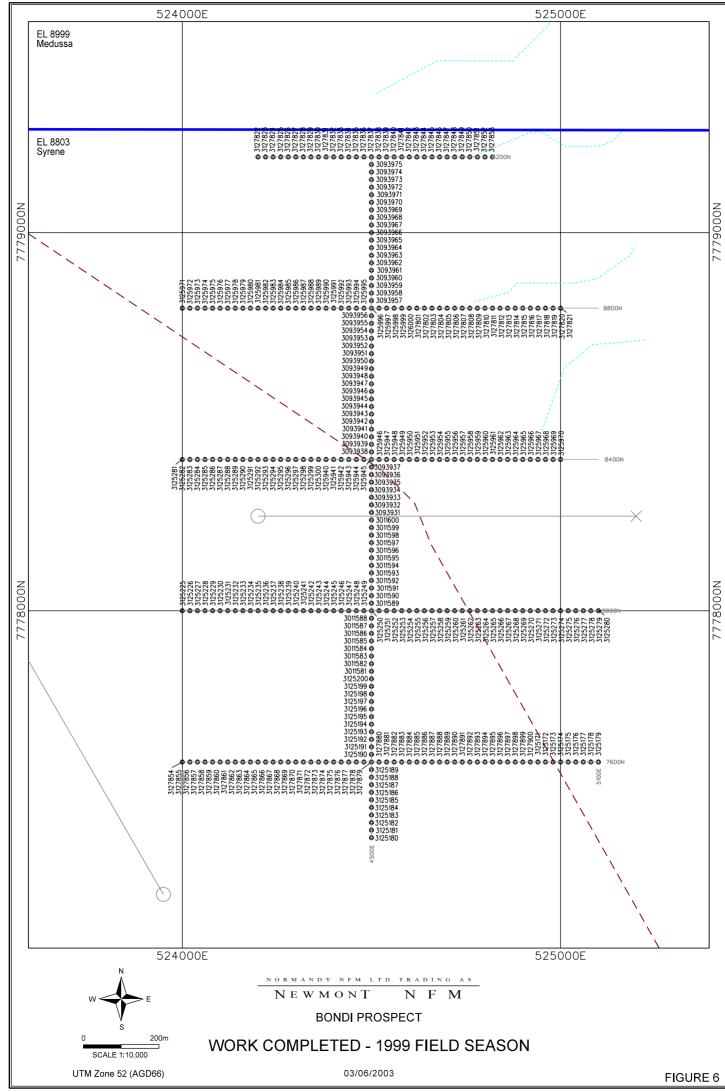
6.3 90 Mile Prospect

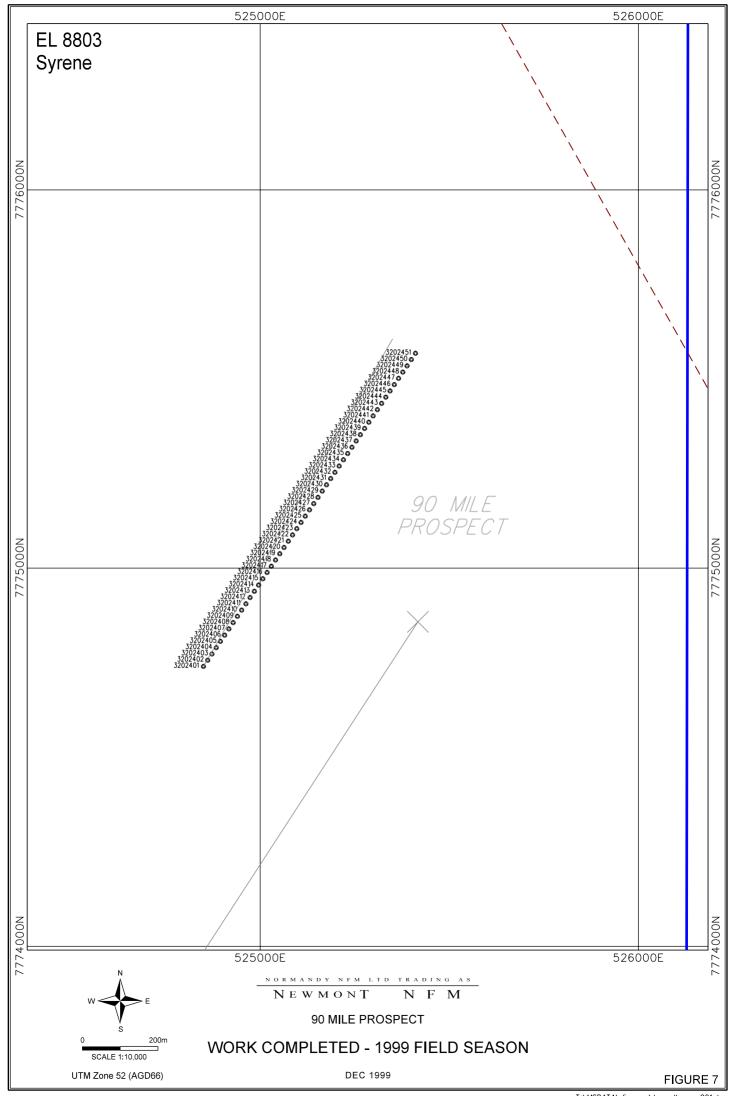
Following favourable surficial geochemical results from lag and CRC programs, a one line kilometre soil traverse was constructed over the 90 Mile Prospect. The traverse is perpendicular to quartz veining and covers the contact of Killi Killi Beds and Pargee Sandstone. Soil sampling was conducted on 20m intervals. Soil sample details are displayed in Table 6 and assay results are contained in Appendix 1. Sample distributions are shown in Figure 7.

Table 6: Prospect Scale Soil Sample Details

Area	Sample ID	Amdel Method	Elements	Total Samples	
Bondi Syenite	3011581-1600; 3093931-3975; 3125171-5200; 3125225-5300; 3125940-6000; 3127801-7900.	ARM1	Ag, As, Au, Bi, Cd, Co, Cu, Mo,	Cd, Co, Cu, Mo,	332
90 Mile Prospect	3202401 – 2451		Ni, Pb, Sb, Se, Te, Zn	51	
			TOTAL	383	

Soil sampling of a traverse at the 90 Mile Prospect indicated very weak gold anomalism up to 1.5 ppb Au coincident with defined lag and rock chip anomalism. Further rock chip sampling will be conducted along strike of the sampled area, however the results of the soil program indicate limited potential for the Prospect.





7. WORK COMPLETED 2nd Year of Tenure

The 2000 work program consisted of initial reconnaissance traverses incorporating opportunistic surficial sampling. A program of broad spaced aircore drilling was also completed to develop an understanding of the regolith, depth of cover and nature of the bedrock across the license. A number of samples from both the surface sampling and drilling programs were also sent for petrological analysis.

Work for the report period included:

Lag Sampling 2 samples
Rock Chip Sampling 4 samples
Orientation Soil Sampling 40 samples
Vacuum Drilling 115 holes for 894.7m, 288 samples

Petrology 8 samples

7.1 Reconnaissance Exploration

RAB Drilling

7.1.1 Surficial Sampling

In the course of drilling several lag and rockchip samples were collected. Rock chip samples consisted of outcropping basement as well as patches of quartz float. Lag samples were collected in lieu of drilling vacuum holes at some locations. A total of 2 lag samples and 4 rockchip samples were collected from the Syrene licence. All samples were dispatched to Genalysis for analysis by B/*ETA and A/MS. Sample locations are presented in Figure 8.

52 holes for 1581m, 530 samples

A summary of sample statistics is given in Tables 7 & 8 and data is displayed in Appendix 1.

Table 7 - Reconnaissance Lag Sample Details

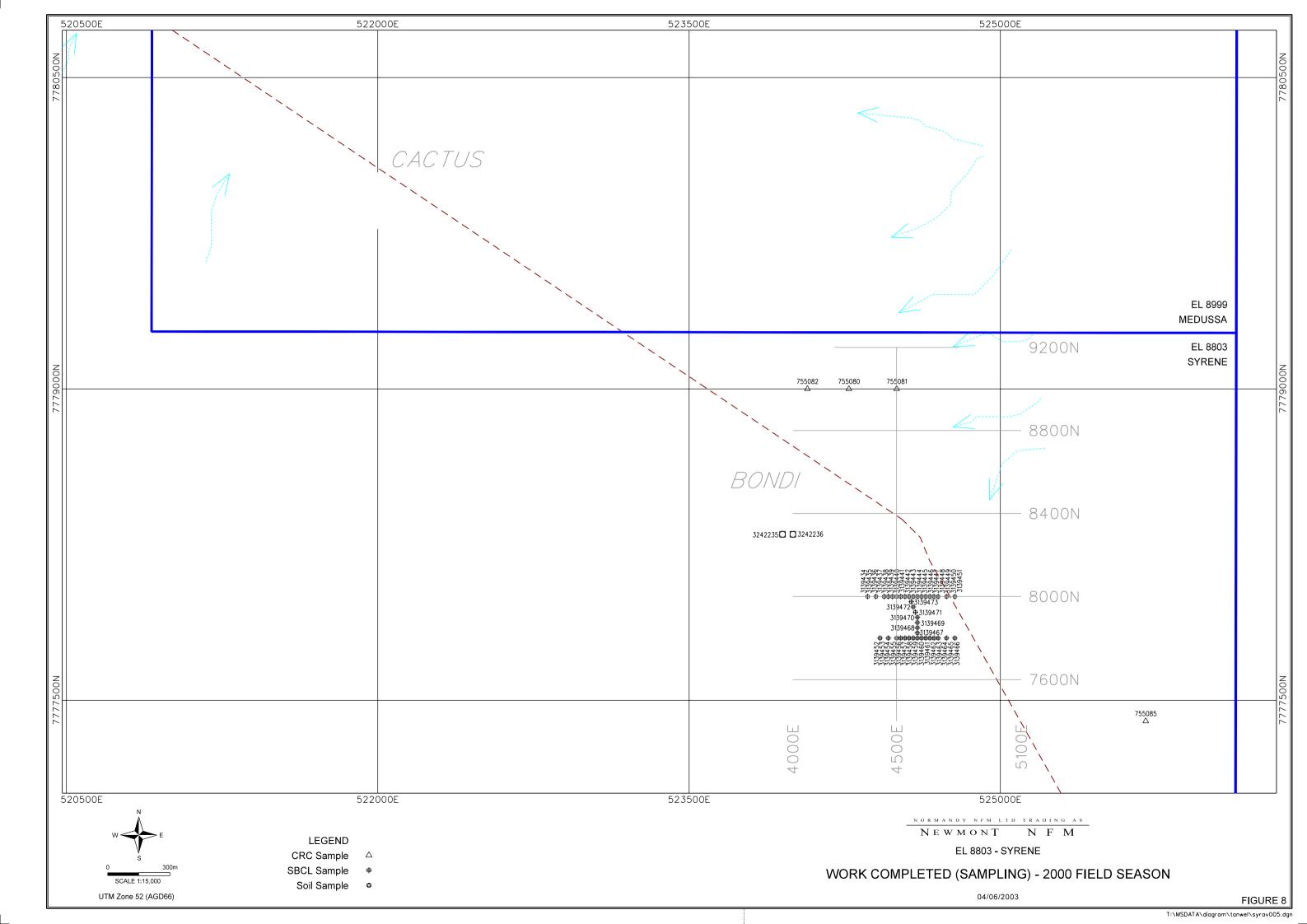
Sample Numbers	Total	Genalysis Method	Elements Analysed
3242235 - 236	2	B*ETA A/MS	Au Ag, As, Bi, Co, Cu, Fe, Pb, Sb, Mo, Ni, Sn, Th, U, W,
			2 samples

Table 8 - Reconnaissance Rock chip Sample Details

Sample Numbers	Total	Genalysis Method	Elements Analysed
755080 - 082, 085	4	B*ETA	Au
			4 samples

None of the surface samples collected returned any gold mineralisation above 1ppb. None of the samples returned anomalous multi-elements either.

Three rock chip samples were submitted for petrological analysis and the results are submitted in Appendix 3.



7.1.2 Orientation Soil Sampling

Orientation soil sampling using in-house Normandy BLEG techniques was tried to evaluate its effectiveness in an area of known weak Au-mineralisation beneath thin and variable cover. The region chosen was the southern part of the Bondi grid where gold mineralisation up to 0.5g/t has been intersected. Previous soil sampling at the Bondi prospect using the Amdel ARM1 method failed to produce many results above the assay detection limit. Aeolian sand cover dominates the Bondi area, whilst a thin alluvial veneer exists at the Cactus prospect. A total of 40 BLEG samples were collected and prepared in the Newmont laboratory in Perth. Sample locations are presented in Figure 8, sample data presented in Table 9, and results in Appendix 1.

Table 9: Orientation Soil Sample Details

Tenement	Area	Sample ID	Normandy BLEG Technique	Total Samples
Syrene (8803)	Bondi	3139434 - 473		40
			TOTAL	40

The BLEG orientation soil sampling produced inconclusive results over the southern end of the Bondi grid. Whilst there was no distinct response over the known weak bedrock mineralisation (up to 0.5g/t Au), the background results certainly demonstrated that there is sufficient variation that the technique should work given substantial bedrock mineralisation. Background mineralisation is at least two orders of magnitude greater than the detection limit of the BLEG technique. This compares more favourably than the ARM1 technique where background results are the same order of magnitude as the detection limit (0.1ppb Au).

7.1.3 Vacuum Drilling

A program of vacuum drilling was completed to test the geochemical response of the cover/bedrock interface and upper bedrock in areas beneath a variable and aeolian/alluvial dominated transported profile. Holes were drilled at 50m centres along E-W traverses spaced 400m apart. A total of 115 holes for 894.7m were drilled (SYV001-115).

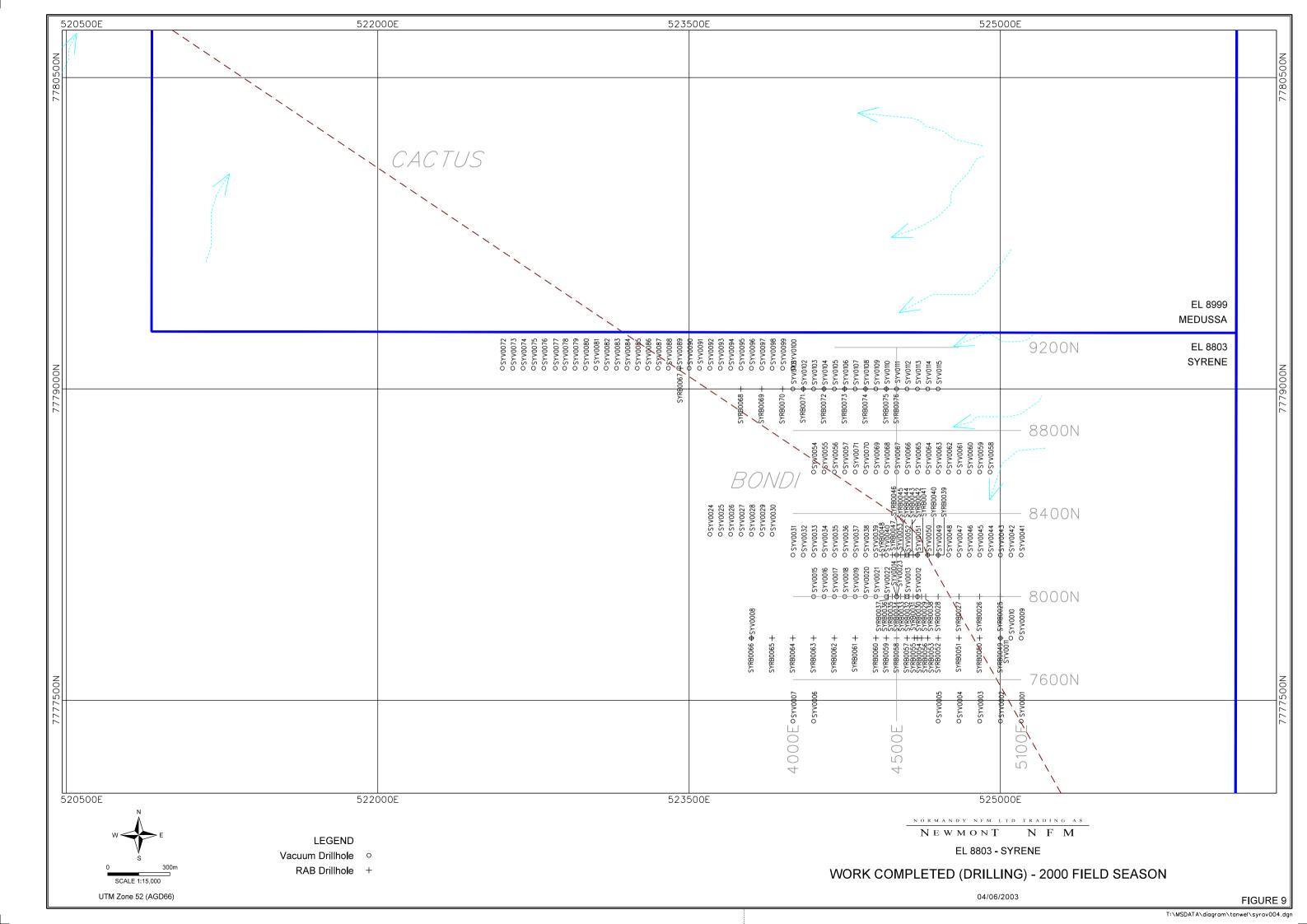
Holes were drilled until recognisable bedrock was intersected (where possible), with the complete profile being sampled. Composite samples (defined by geological intervals) were collected from both the transported and residual parts of the hole, with an unsieved interface sample also being collected where a derived stone line (DSL) existed.

Composite samples were dispatched to Amdel for analysis by ARM1, with interface (DSL) samples being dispatched to Genalysis for analysis by B/*ETA and A/MS. A total of 208 composite samples and 82 DSL samples were collected.

Drill hole locations are presented in Figure 9, sampling data presented in Table 10 and drilling logs presented in Appendix 1.

Table 10 - Reconnaissance Vacuum Drillhole & Sample Details.

Drillhole ID	Total	Metres	Sample Type	Sample ID	Total Samples	Sample Method / Laboratory		
SYV0001 -	115	894.7	Composite	3140794 – 0819 3140901 – 1000 3139001 - 0080	206	Amdel ARM1 Ag, As, Au, Bi, Cd, Co, Cu, Mo, Ni, Pb, Sb, Se, Te, Zn		
0115			DSL	3202966 - 3000 3242301 - 2346 3242356	82	Genalysis B/*ETA (Au) and A/MS (Ag, As, Bi, Co, Cu, Fe, Pb, Sb, Mo, Ni, Sn, Th, U, W,)		
	115 holes for 894.7m, 288 samples							



The vacuum drilling at Syrene assisted in defining new zones of anomalous mineralisation beneath transported cover, although coverage in the southern part of the Bondi grid was hampered by excessive moisture in the ground. The vacuum drilling has indicated that the transported cover in the "Syrene valley" is only very thin and may in fact be amenable to surface sampling. The vacuum drilling aided in mapping bedrock stratigraphy, although due to the strongly weathered nature of bedrock in the upper part of the residual profile, rocktypes could only generally be differentiated into intrusives, coarse grained sediments and siltstones. Many zones of intense quartz veins were also intersected, although only a small percentage of these appear to be related to mineralisation. Several geochemical anomalies were generated and were followed up with RAB drilling.

7.1.4 RAB Drilling

A RAB drilling was conducted to test geochemical anomalies generated by the earlier vacuum drilling program. Drill holes were angled at -60° towards either AMG-east or west. Holes were drilled at varying centres along E-W traverses no closer than 200m apart. Some overlapping traverses were drilled, whilst shallow RAB holes were drilled along some traverses where earlier vacuum drilling failed due to excessive moisture in the weathered profile. A total of 52 holes for 1581m were drilled (SYRB025-076).

Drill cuttings were laid out in three metre piles with one sample being collected from each pile by spearing from four different directions. The complete hole was sampled with all samples dispatched to Amdel for analysis by ARM1. A total of 530 samples were collected.

Drill hole locations are presented in Figure 9, sampling data presented in Table 11 and drilling logs presented in Appendix 1.

Table 11: Reconnaissance RAB Drillhole and Sample Details

Drillhole ID	Total	Metres	Samples	Total	Amdel Method	Elements Analysed	
SYRB025 - 076	52	1581	3673874 - 403	530	ARM 1	Ag, As, Au, Bi, Cd, Co, Cu, Mo, Ni, Pb, Sb, Se, Te, Zn	
TOTAL: 52 holes for 1581m, 530 samples							

A total of eight samples from Syrene RAB holes were submitted to Pontifex and Associates for petrological examination and interpretation. The petrology report is contained in Appendix 3.

The RAB drilling undertaken at Syrene extended the known mineralisation at Bondi and improved greatly the geological understanding of the area. Drilling intersected a variety of intrusives ranging in composition from felsic (porphyries) to intermediate (syenite, monzonite and diorite) to mafic (diorite-gabbro), as well as a variety of sedimentary lithologies. Some possible volcanic/volcaniclastic rocks were also intersected.

Drilling encountered anomalous mineralisation similar in style and magnitude to the previously encountered mineralisation at Bondi (ie 3m @ 0.527ppm Au from SYRB017). The new mineralisation is also hosted in syenitic to dioritic rocks and may or may not be associated with quartz veins. The results from this drilling have confirmed the presence of low grade Au-mineralisation in the southern end of the Bondi grid, but has not yielded any higher (ore-grade) mineralisation.

8. WORK COMPLETED 3rd Year to Final Year of Tenure

No on-ground work was completed during the period 01/01/2001 to 03/04/2003.

9. FINAL EXPENDITURE STATEMENT

Expenditure for the final period of tenure, 29/04/2002 to 03/04/2003:

Expense Element	EL 8803 (SYRENE)	
Employee Costs	\$2,803.01	
Overheads & Allocations	\$1,376.11	
TOTAL	\$4,179.12	
COVENANT	\$6,000.00	

10. REFERENCE LIST / ANNUAL REPORT BIBLIOGRAPHY

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APPENDIX 1: DIGITAL SAMPLE & DRILLHOLE DATA

SYR_WADG1_DOW2003S.TXT
SYR_WADL1_DOW2003S.TXT
Downhole assays data file
Downhole lithology data file
Downhole Downhole surveys data file
SYR_WASG1_SUR2003S.TXT
SYR_WASG2_SUR2003S.TXT
SYR_WASL1_DRI2003S.TXT
SYR_WASL1_DRI2003S.TXT
Drillhole collar data file

APPENDIX 2: GEOPHYSICAL SURVEY DATA

EL8803_GMag_1999.xls Ground Magnetic Survey data file (Excel)

APPENDIX 3: PETROLOGICAL SAMPLE DESCRIPTIONS

Petrology #	Count ID	Туре	NFMSample #	From To	o Easting	Northing	Description EL88
EL8803	Syre	ene					
7913 PU	9/10/1999 TS		PJD Syrene	(EL)			5 Drillchip samples, photos
05180	1 SYRB017	DC	3225865-868	27	39 524600	7777890	Chips classified variously as mucrosyenite and monzonite with saussuritised plagioclase, clouded orthoclase, partly amphibole-clay-altered clinopyroxene, fresh to clay-altered biotite, minor hornblende, accessory opaque oxide, quartz and apatite. Cut by veinlets of quartz and carbonate.
05181	2 SYRB019	DC	3226329-333	46	60 521180	7776450	Two lithologies represented by different chips:- 1. Greywacke, quartz rich but with plagioclase and rare K-spar as well as muscovite, altered possible biotite and lithic grains as well as muscovite and tourmaline. Possibly Titania lithic wackes rather than Madigan Beds. 2. Albite-chorite-clay-K-spar-leucoxene -altered basalt or quartz dolerite with quartz veinlets and some quartz in vesicles.
05182	3 SYRB024	DC	3226403-04	49	55 523220	7778550	Chips of plagioclase-biotite-magnetite-sphene porphyritic andesite or andesite porphyry. Altered to albit sericite, limonite, clay and leucoxene. Possible lave or small high level intrusion.
05183	4 SYRB024	DC	3226401	43	46 523220	7778550	All chips composed of poorly sorted and matrix supported sandstones with volcanic fragments as well a quartz and plagioclase. May represent Titania Lithic Wacke with the volcanic detritus derived from the Mount Winnecke Formation.
05184	5 SYRB024	DC	3226406	58	61 523220	7778550	Chips of massive siltstone and claystones with minor extremely fine disseminated opaguw oxide. Local cut by veinlets of smectite/vermiculite and/or clay quartz. May be from the Titania Lithic Wacke or Pargusandstone formations.
P06059	1 SYRB011	DC	3225806	42	45 520974	7776002	Altered plagioclase porphyritic vesicular basalt possibly from a flow-top: Antrim Plateau Volcanics or old
P06702	2 SYRB0032	DC	3673959	45	47 525560	7778000	Sericite-smectite-vermiculite-leucoxne altered, possible biotite-pyroxene diorite or gabbro, rich in apatite and possibly calc-alkaline.
P06703	3 SYRB043	DC	3674110 - 111	36	42 524560	7778200	Altered mafic biotite-pyroxene syenite with abundant apatite indicating alkaline affinities.
P06704	4 SYRB041	DC	3674084	33	36 524600	7778200	Clay-sericite biotite-pyroxene diorite with late magmatic quartz and irregularly disseminated orthoclase.
P06705	5 SYRB0056	DC	3674246-247	30	36 524620	7777860	Foliated, clay-sericite-leucoxene-limonite altered possible quartz dirite or gabbro with leucoxene after opaque oxide and minor apatite. May be related to the diorites described above. One chip has limonite possibly after pyrite.
P06706	6 SYRB0056	DC	3674246-247	30	36 524620	7777800	Clay-sericite-leucoxene-altered, orthoclase-quartz bearing biotite-pyroxene diorite or gabbro?
P06707	7 SYRB067	DC	367301-302	27	33 523458	7779100	Albite-sericite-clay-K-spar altered plagioclase porphyritic andesite with accessory opaque oxide, apatite and zircon.
P06708	8 SYRB0068	DC	3674312	27	30 523750	7779000	Albite-sericite-limonite-leucoxene altered probable quartz micromonxzonite porphyry with phenocrysts of K-spar and altered plagioclase.
P06709	9 SYRB073	DC	3674362-364	51	60 524250	7779000	Quartz-plagioclase-lithic, poorly sorted coarse to very coarse grained sandstone with a sparxe quartz-chlorite matrix. Probably derived from acid volcanics.
P06710	1	ОС			523145	7779411	Altered orthoclase-plagioclase porphyritic rock (latite lava or porphyry?) incorporating a large fragment (andesite or latite?) porphyritic in plagioclase and ferromagnesian mineral(s). Possibly represents Mour

Notes

Winnecke Group or Nanny Goat Volcanics.

Report # Author Date

Work

Geo

Prospect

Report # Author Date	e Work Geo Pros	pect		Notes	
Petrology # Count II	Type NFMSample#	From To Easting	Northing	Description	EL8803
P06711	ОС	523100	7779320	Sericite-clau-chlorite-limonite-luecoxene altered possible ignimbrite or pyroclastic. Possibly re Nanny Goat Volcanics or Mount Winnecke Group.	epresents
P06712 3	OC	523100	7779320	Contact between pumice-hosted ignimbrite and siltstone. May represent Nanny Goat Volcani Winnecke Group.	ics or Mount

Northern Territory Department of Mines and Energy

REPORT METADATA FORM (MINERAL EXPLORATION)

PART A (DME USE ONLY)								
Report Number			Date Receiv	⁄ed				
Collation	pp.	figs	logs	maps	apps.			
Media	CDs	1.5"	Exab.	DLT	vols.			

PART B								
Tenure Number(s)	EL 8803		Company R	eport	31110			
			Number					
Report Date	June 2003		Anniversary	Date	29/04/1999)		
Group Project Name	Western Tana	ami						
Report Title	Final Report for EL 8803 (Syrene) for the period 29/04/1999 to 03/04/2003							
Author(s)	M.Walter							
Corporate Author(s)	Newmont Aus	tralia						
Maps 1: 250 000	SF52-03							
Maps 1: 100 000	4757							

Te	ctonic Units				
	Amadeus Basin		Carpentaria Basin	McArthur Basin	Pine Creek Inlier
	Arafura Basin		Daly Basin	Money Shoal Basin	Simpson Basin
	Arnhem Inlier		Dunmarra Basin	Murphy Inlier	South Nicholson Basin
	Arunta Inlier		Eromanga Basin	Musgrave Block	Tennant Creek Inlier
	Birrindudu Basin		Fitzmaurice Mobile Zone	Ngalia Basin	Victoria Basin
	Bonaparte Basin		Georgina Basin	Ord Basin	Warburton Basin
	Browse Basin	✓	Granites-Tanami Inlier	Pedirka Basin	Wiso Basin
Ot	her structural units				

Stratigraphic Names							
Killi Killi Beds							

AN	AMF Thesaurus Terms - General									
	Geological		Regional Geology		Stratigraphy		Structural Geology			
	mapping									
	Metallogenesis		Remote sensing		Imagery		Landsat			
	Petrology		Lithology		Literature reviews		Metamorphism			
	Lineaments		Photogeology	✓	Reconnaissance		Indicator minerals			
Otl	her terms									

AN	IF Thesaurus Terms	- Ta	rget Minerals		
>	Gold		Silver	Tin	Diamonds
	Lead		Copper	Platinum Group Minerals	Industrial Minerals
	Zinc		Uranium	Bauxite	
Oth	ners				

AN	IF Thesaurus Terms	s - M						
	Environmental impact surveys		Feasibility s	tudies		Geostatistics		Metallurgy
	Ore reserves		Resource assessment	t		Mineral resources		Mining geology
	Mine design		Mine draina			Mine evaluation		Pits
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A۱	/IF Thesaurus Terms	s - G	eophysical S	urveys				
	Aerial magnetic surveys		Aerial radio			Aerial EM surveys		Ground EM surveys
	Gravity surveys		Geophysica anomalies	al		Gravity anomalies		Bouger anomaly maps
	Sirotem surveys	1	Ground magnetic			IP surveys		Resistivity surveys
	Seismic surveys		surveys Magnetic			Geophysical		Geophysical logs
		anomalies			interpretation		Ocophysical logs	
Ot	her terms							
	IF Thesaurus Terms				ion -		1	
✓	Geochemical sampling		Stream sed sampling	iment	✓	Rock chip sampling		Bulk sampling
✓	Soil sampling		Heavy mine sampling	eral		Geochemical anomalies	✓	Assaying
	Isotope geochemistry		Whole rock analysis			X ray diffraction	1	Sample location
Ot	her terms	lа	g Sampling				+	maps
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ΔM	IF Thesaurus Terms	- Ge	eochemical F	ynlorati	ion -	Drill sampling		
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	RC drilling		Rotary drillin	าต	<u> </u>	Vacuum drilling		Auger drilling
	Drill core	-	Drill cuttings		1	Drill hole logs		Drill core analysis
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