TROY RESOURCES NL
A.C.N. 006 243 750

All Correspondence to:
WA PRINCIPAL OFFICE
Ground Floor
44 Ord Street
West Perth 6005
Western Australia
Telephone: (61 8) 9481 1277
Facsimile: (61 8) 9321 8237
Email: troy@troyres.com.au
Web Site: www.try.com.au

Daly River Project
EL22495 and EL22498
Annual Report
for the Period
6th September 2008 to 5th September 2009.

TENEMENTS:	E22495 and E22498
HOLDER:	TROY RESOURCES NL
OPERATOR:	TROY RESOURCES NL 44 ORD STREET WEST PERTH WA 6005
COMPLIED BY:	D. W. OTTERMAN
REPORT DATE:	OCTOBER 2009
DISTRIBUTION:	TROY RESOURCES NL (1) DBIRD (1) AUSTWIDE MINING TITLE MANAGEMENT (1)
REPORT No:	DR/09/4
MAP SHEET:	1:250,000: PINE CREEK (SD52 – 8) 1:100,000: DALY RIVER (5070)
KEYWORDS:	GEOLOGY, GEOPHYSICS, GEOCHEMISTRY
LOCATION:	DALY RIVER NORTHERN TERRITORY
MGA ZONE:	MGA ZONE 52 (GDA94))
MGA CO-ORDINATES:	683000mE; 8486000mE

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1. INTRODUCTION

Daly River is, located approximately 145 kilometres south of Darwin in the Northern Territory (Figure 1). Deposits of copper, lead and zinc have been mined sporadically from veins and lodes in the Daly River region since the late 19th century. Approximately 7,000 tonnes of oxide ore grading 20% to 30% copper has been produced. Modern mineral exploration, since the 1960s, using geophysical and geochemical techniques, resulted in the discovery of several small volcanogenic massive sulphide (VMS) deposits, which to date have been prohibited from exploitation by their small size and uneconomic grade. Exploration for gold in the area has been minimal.

Troy Resources NL currently holds the area, including all the old mines, prospects and new discoveries, under four granted exploration licences and two exploration licence applications. Troy has carried out little exploration work in the area having been restricted both currently and in an earlier period of tenure by other stakeholder ownership disputes.

The project area has potential for discovering additional base-metal deposits and gold and a number of inadequately tested and untested targets generated by previous explorers are available for immediate follow-up. Also, it is anticipated that other targets can be generated through surveys resulting from the appraisal of the large volume of data in existence.

This report summarises exploration work carried out on Daly River Project group reporting Exploration Licences EL22495, EL22496, EL22498 and EL23595 for the period 6 September 2007 to 5 September 2008.

Map sheets pertinent to the area are:

Pine Creek	SD 52-8	1:250,000
Daly River	5070	1:100,000

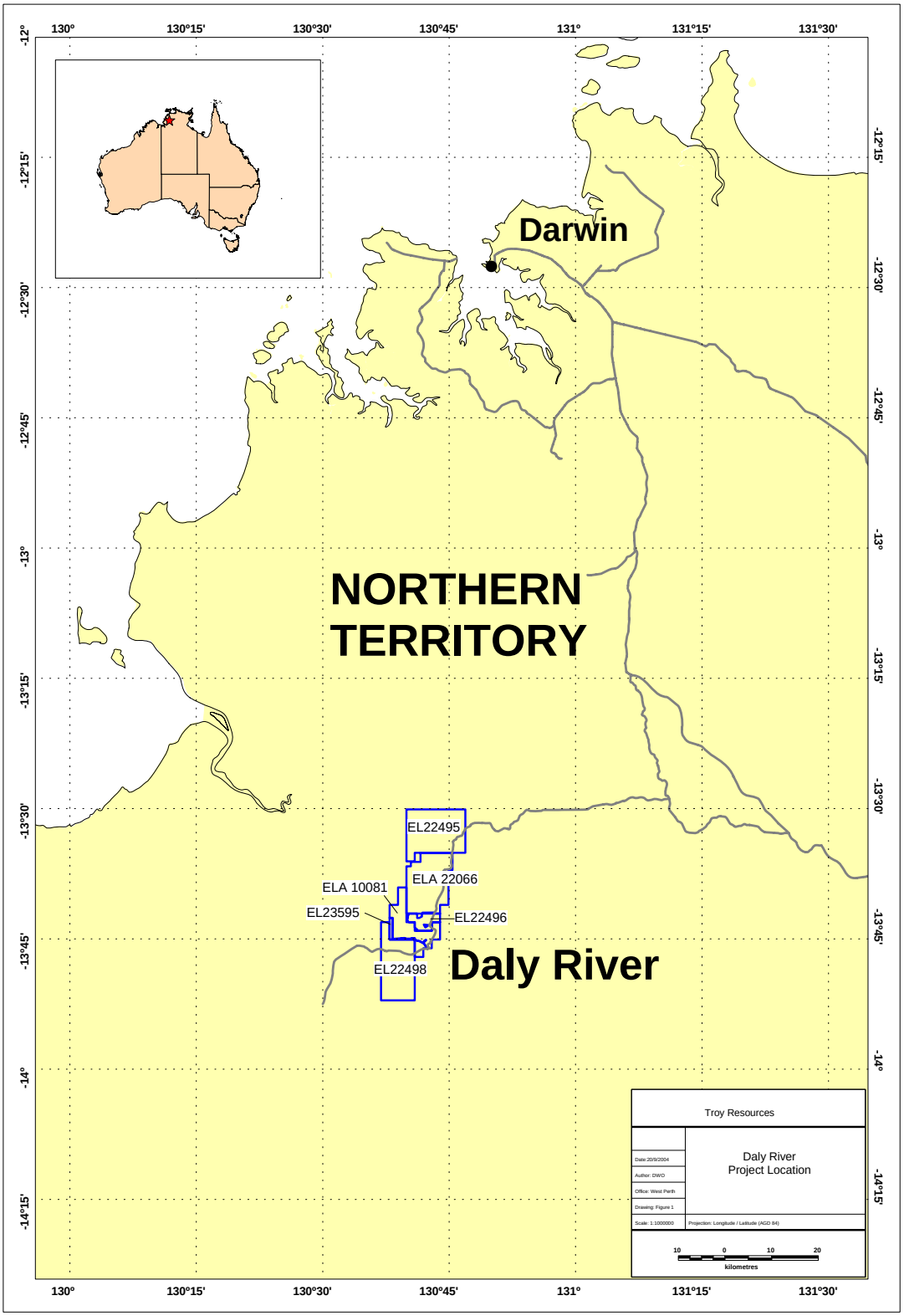

Figure 1: Daly River - project and historical tenement holdings location plan

2. TENURE

The licences are wholly owned and operated by Troy Resources NL. Particulars of the current tenement holding are listed in Table 1 and the tenement locations are shown on Figure 2.

Table 1

Daly River

Tenement Status March 2006

Tenement Number	Application Date	Granted	Expiry	Area km^2	Blocks	Annual Expenditure	Annual Rent
E10081	02/03/1998			52.82	18.00		
E22066	13/07/1999			109.40	35.00		
E22495	30/03/2000	05/09/2002	04/09/2008	120.20	36.00	$35,000	$396
E22498	30/03/2000	05/09/2002	04/09/2008	50.03	15.00	$35,000	$330
E26248	28/06/2007	15/02/2008	14/02/2014	3.06	4.00	$10,000	$44
E26250	28/06/2007	15/02/2008	14/02/2014	4.02	3.00	$10,000	$33

Applications for E10081 and E22066 are located on Aboriginal Freehold Land ("ABF") and require processing in accordance with the NT Mining Act and the Aboriginal Land Rights (Northern Territory) Act ("ALRA" – Commonwealth of Australia). The ALRA requires that negotiations be entered into (once Ministerial consent has been given to commence negotiations) with the holders of the ABF. Consent to the grant of licence must be obtained from the ABF holders as part of the application/granting process. If the ABF holders refuse consent, the application goes into moratorium for 5 years. However, the ABF holders can elect to lift the veto after 2 years and recommence negotiations with the applicant.

Negotiations were delayed pending determination by the Northern Land Council ("NLC") of right of ownership and determination of demarcation boundaries between two Aboriginal groups, the Malak Malak and Kamu, within the Aboriginal Corporation awarded the freehold. A court case relating to the dispute between the two traditional owner groups found in favour of the Kamu people The Malak Malak refused to recognise the decision but no appeal was lodged against the decision and the time allowed for this process has lapsed. Malak Malak's refusal to recognise the decision left Troy with no legitimate negotiating partner.

Eventually meetings were scheduled for November 2006 although the dispute between the two groups had not been settled. The meetings were subsequently rescheduled to early 2007 and as the negotiating period for the ELAs was due to expire 31 December 2006 an extension of time was granted.

During March 2007 separate meetings were held with the Malak Malak and Kamu people on successive days at the Nauiyu Community Hall, Daly River. Representatives of the

NLC arranged the meetings, established the appropriate protocol and were present at the meetings.

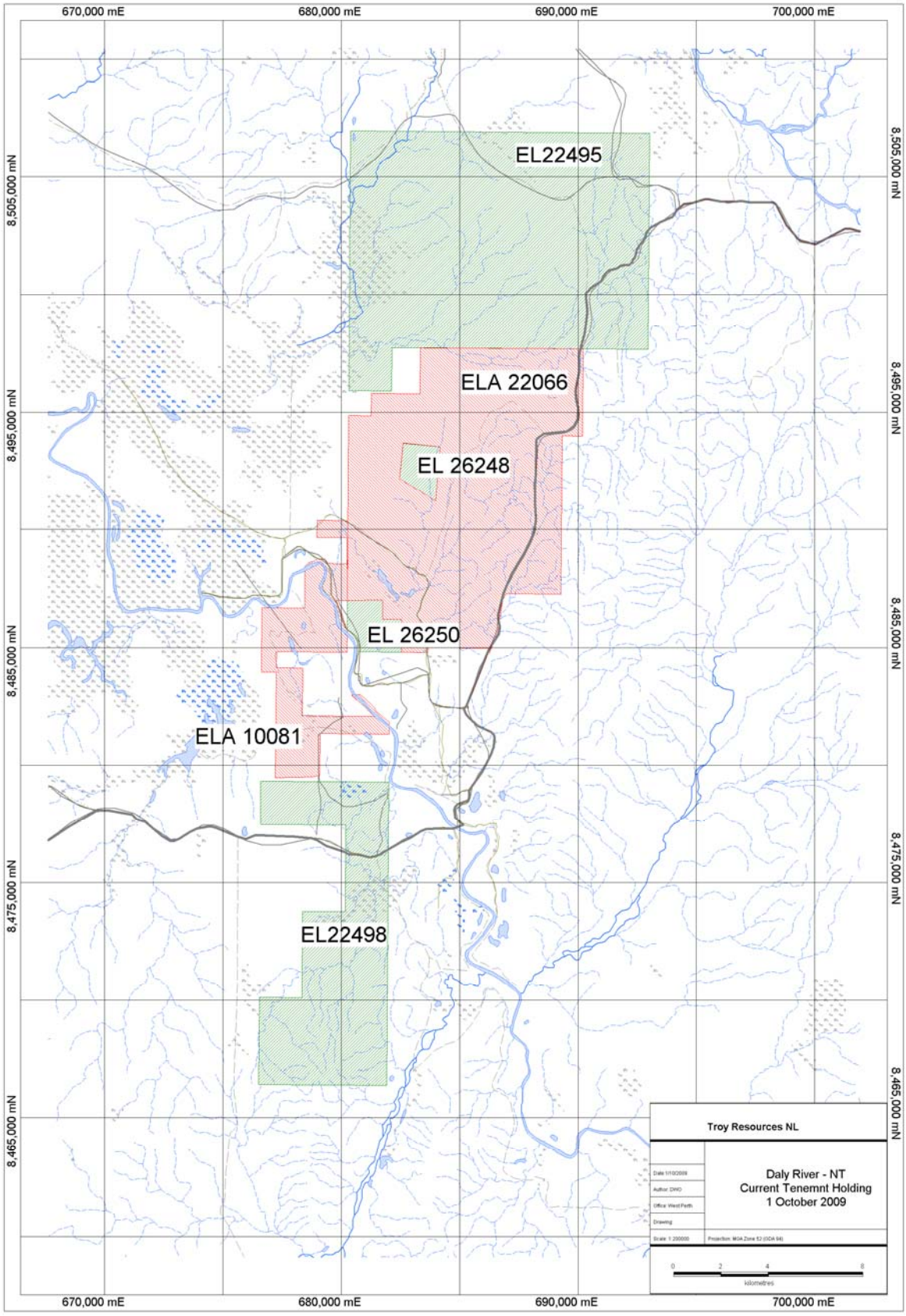

Figure 2: Daly River – Current Tenement Holding

In conclusion both groups refused consent. The Kamu were indecisive and requested a month to consider Troy's proposal. However, as NLC protocol required a decision on the day of the meeting their only alternative was to refuse consent. The applications have therefore gone into moratorium for five years. ALRA clearly requires that any re-opening of negotiations has to be at the instigation of the Aboriginal land owners.

E22066 is a key tenement containing most of the old mine workings and mineral occurrences as well as the Anomaly A volcanogenic massive sulphide (VMS) base metal deposit. The delay in grant of this tenement has prohibited a more concerted on ground exploration effort and a more extensive airborne geophysical survey throughout the project area.

3. GEOLOGY

Daly River is situated in the northern part of an Early Proterozoic metasedimentary trough that occupies the western part of the Pine Creek Geosyncline along a complex structural zone bordering the eastern margin of the Litchfield Block (Figure 3). The Pine Creek Geosyncline contains a suite of Early Proterozoic sedimentary rocks (mainly shale and sandstone, with minor conglomerate, carbonate and volcanic rocks) which have been metamorphosed to greenschist facies and intruded by pre-tectonic dolerite sills and syn- to post- tectonic granitoid and pegmatite. The Litchfield Block contains Early Proterozoic low to high grade metamorphosed pelitic and arenaceous sedimentary rocks with minor calcareous and iron-rich sequences. These rocks have been intruded by pre-tectonic ultramafic to intermediate sills and syn- to post-tectonic granitoid. Undeformed Middle Proterozoic, Late Proterozoic, Cambro-Ordivician and Mesozoic strata cover the Early Proterozoic rocks with marked unconformity.

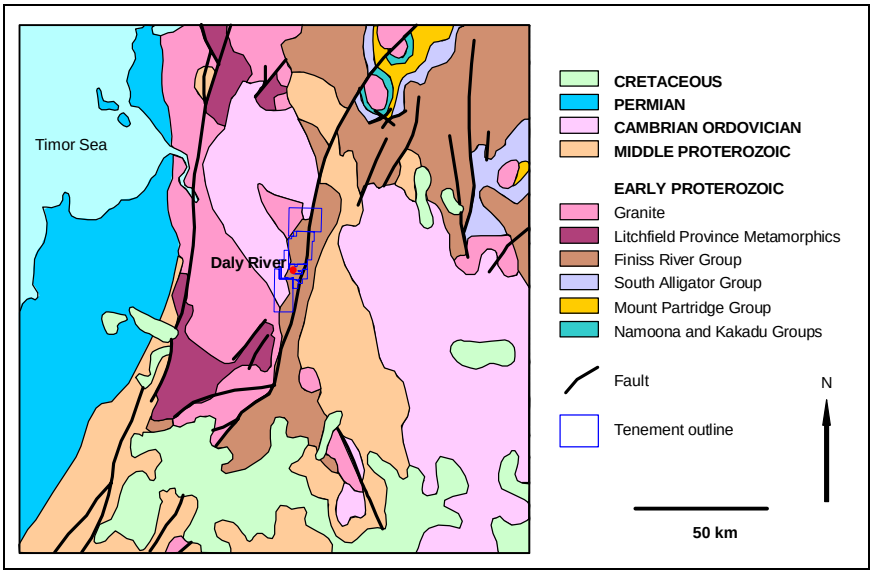

Figure 3. Regional Geology of the western part of the Pine Creek Geosyncline (after Ahmad et al., 1993)

3.1 Local Geology

Stratigraphy

Table 2
Daly River
The Stratigraphic Column in the Vicinity of Daly River

Time	Unit	Rock Suite
Cambrian	Daly River Group	Limestone;siltstone; sandstone; arkose; *quartz arenite*
Regional Unconformity		
Middle Proterozoic	Tolmer Group Depot Creek Sandstone	Dolomite; calcareous sandstone; halite; sandstone; shallow marine sandstone
Regional Unconformity		
Early Proterozoic	Fish Billabong Adamellite Mt Litchfield Granite	*Biotite adamellite, aplite* *Granite*
	Wangi Basics	Basalt; *gabbro; dolerite;* ultramafic rocks
	Finiss River Group	Sediments and felsic volcanic rocks
	Burrell Creek Formation	*Phyllite; lithic quartz arenite; conglomerate with acid volcanic clasts*
	Warrs Volcanic Member	*Submarine acid volcanics; dacitic lavas; tuffaceous siltstone and volcaniclastic lithic arenite*
	Mulluk Mulluk Volcanics	*Spherulitic rhyolite*
Regional Unconformity		
	Hermit Creek Metamorphics	High grade metamorphic rocks, amphibolite to granulite facies, retrograded; metabsite; paragneiss; granitoid

Note: *Italics denote occurrence within the project tenement area.*

Rocks of the Early Proterozoic Finiss River Group, composed of phyllite and meta-arenite of the Burrell Creek Formation and arenaceous quartzite of the Chilling Sandstone, occupy most of the project area (Plan 1). The Burrell Creek Formation also contains a basal metamorphosed spherulitic rhyolite, the Mulluk Mulluk Volcanic Member, and an acid submarine volcanic unit, the Warrs Volcanic Member. Mineralization in the area is hosted mainly in the Warrs

Volcanic Member. The Mount Litchfield Granite and the Fish Billabong Adamellite, syn- or post-orogenic intrusives, are exposed in the northern part and on the southwest margin of the tenement area respectively. Outcrops of metadoleritic and gabbroic intrusions of the Wangi Basics, occur in the central north-western part of the project area. Cambrian arkose and quartz-arenite of the Daly River Group are exposed as outliers overlying Mt Litchfield granite.

Structure

Structurally the project area is best described as located within a large NNE trending shear zone related to movement along the Giant's Reef Fault, a system of NNE trending wrench faults traversing the eastern side of the project area within the Burrell Creek Formation. These faults form part of a system of faults that extend from the Halls Creek Mobile Zone through the Fitzmaurice Mobile Zone to Darwin. Although these structures are generally sinistral in displacement, the Giant's Reef Fault displaces the Tolmer Group dextrally by about 6 kilometres to the north of Daly River near Reynolds River. Dundas et al., (1987) suggest movement on the Giant's reef fault ceased at about 700 million years BP.

East-west trending faults in the Burrell Creek Formation near Mt. Thomas also exhibit dextral displacement in the order of tens of metres. Southwest of Mt. Thomas, a block of the Warrs Volcanic Member bounded by NW trending faults (interpreted from aeromagnetics) has been displaced to the east forming an embayment within the Burrell Creek Formation.

Formations in the Daly River area have been folded into a broad synclinorium the axis of which trends NNE. Within the metasediments of the Burrell Creek Formation, tight to close, N to NW trending F_3 folds contain a penetrative near vertical slaty to phyllitic axial plane cleavage. Metasediments and volcanic rocks of the Warrs Volcanic Member have vertical to subvertical dips which in most cases coincide with the axial plane cleavage of a series of tight to isoclinal F_3 folds (Ferenczi, 1990).

In the southern part of the project area image processed aeromagnetics reveal a more complex structural pattern than portrayed by existing geological maps. The folded units appear to have been rotated in a counter-clockwise direction, around a postulated deep seated intrusive (centred at 680 600mE; 8 480 500mN). Subsequent vertical (upward) and possibly sinistral displacement has occurred along an ENE fault/shear zone followed by strike slip movement along NNE faults more or less parallel with the Giants Reef Fault. A NNW trending fault is most likely present along the course of the Daly River.

Mineralization

Mineralisation occurs as semi conformable, narrow quartz and carbonate vein systems containing copper (lead, zinc and other sulphides) in the Burrell Creek

phyllite and Warrs Volcanic Member and as massive volcanogenic sulphides (predominantly composed of iron and zinc sulphides), in the Warrs Volcanics.

Small deposits of copper, lead zinc and silver were first discovered at Daly River in the 1880s and have been mined at various times since then. Two types of mineral deposits occur in the area: volcanic massive sulphide (VMS) deposits hosted in the Warrs Volcanic Member and remobilized, structurally controlled vein deposits and lodes within both the Warrs Volcanic Member and sedimentary rocks of the Burrell Creek Formation. The two types of deposits are most likely genetically related and are possibly equivalents of the Woodcutters deposit (1 Mt at 14.4% Zn, 7.1% Pb and 140 g/t Ag), in the vicinity of the Giant's Reef Fault, 100 kilometres to the northeast.

Recorded production consisted of oxidized copper ores mainly from vein deposits. The largest producer was the Daly River Copper Mine (6,000 tons), grading about 20 to 30% Cu.

4. WORK COMPLETED DURING THE PERIOD

Failure to advance negotiations and the refusal to consent grant of EL22066 in particular has meant that the extent of the intended airborne geophysical survey was minimized and to date aeromagnetic surveying has been carried out only over E22495.

The airborne magnetic survey was completed over a large part of E22495 in January 2008 and ground inspection of an anomaly labelled DR500 was carried out in April 2008. A drilling program was formulated to test the magnetic anomaly.

An application for an Authority Certificate was submitted to and received by the Aboriginal Areas Protection Authority (AAPA) on 22nd May 2008 and an Authority Certificate for Mineral Exploration Drilling in selected Areas within E22495 was issued on 18 March 2009 (Appendix 4).

In August 2009 a ground magnetic survey was completed to properly locate anomaly DR500 on the ground. A report on the survey containing modelled magnetic bodies and depths to magnetic source is attached as Appendix 2. In conjunction with the ground magnetic survey a soil geochemical survey utilizing Mobile Meta Ion (MMI) analysis was also carried out in an attempt to determine any geochemical signature from the blind magnetic anomaly. Methodology and results of the geochemical survey are included as Appendix 3. Both magnetic and geochemical data is supplied in digital form on the CD accompanying this report.

Drill pad and access clearing has been completed and drilling is scheduled to commence during the second week of October 2009.

No work has been carried out on E22498.

5. RECOMMENDATIONS

In spite of the refusal of consent, it is recommended that Troy persevere with the project, continue work on the granted tenements and try to encourage the Aboriginal landholders to reopen negotiations toward the grant of ELs22066 and 10081.

Results from the drilling program expected to be completed in October 2009 may have some bearing on the decision to proceed.

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Appendix 1

File Verification List
and
CD ROM of Digital Data.

Verification Listing Form		
Exploration Work Type	**File Name**	**Format**
Office Studies		
Literature search		.
Database compilation		
Computer modelling		
Reprocessing of data		
General research		
Report preparation	Daly River_Annual Report 2009 (Yr6)	.PDF
Other (specify)		
Geological Legend		
Airborne Exploration Surveys		
Aeromagnetics		
Radiometrics		
Electromagnetics		
Gravity	.	
Digital terrain modelling		
Other (specify)		
Remote Sensing		
Aerial photography		
LANDSAT		
SPOT		
MSS		
Radar		
Other (specify)		
Ground Exploration		
Geological Mapping		
Regional		
Reconnaissance		
Prospect		
Underground		
Other (specify)		
Ground Geophysics		
Radiometrics		
Magnetics	DR500_Ground MAGSUMM.xls	.xls
Gravity		
Digital terrain modelling		
Electromagnetics		
SP/AP/EP		
IR		
AMT		
Resistivity		
Complex resistivity		
Seismic reflection		
Seismic refraction		
Well logging		
Geophysical interpretation		
Downhole magnetic Susceptibility		
Downhole EM		

Geochemical Surveying		
Drill sample		
Stream sediment		
Soil	DR500_MMI Soil Sample Data.xls DR500_MMI Results.xls	.xls .xls
Rock chip		
Laterite		
Water		
Biogeochemical		
Isotope		
Whole rock		
Mineral analysis		
All surface geochemistry		
Drilling		
Diamond		
Reverse circulation (RC)		
Rotary air blast (RAB)		
Aircore (AC)		
Groundwater drilling		
All Drilling		

Appendix 2

Ground Magnetic Survey Report

SOUTHERN GEOSCIENCE CONSULTANTS

PTY LTD A.C.N. 067 552 461

8 Kearns Crescent, Ardross WA 6153
AUSTRALIA

TELEPHONE	(61 8) 93162074	John Ashley	(61 8) 93162801
FAX	(61 8) 93161624	Bill Peters	(61 8) 93162814
EMAIL	lynsey@sgc.com.au	Bruce Craven	(61 8) 93162804
WEB	www.sgc.com.au	Kim Frankcombe	(61 8) 93162074

Memorandum

DATE: Friday, September 11, 2009
TIME: 10:23 AM
FROM: Lynsey Brett, SGC
TO: Dave Otterman, Troy Resources N.L.

MODELLING OF GROUND MAGNETIC PROFILES AT DALY RIVER – ANOMALY 500

The ground magnetic survey of Anomaly 500 at the Daly River project covers approximately a 2500m x 1500m area with 13 lines ranging between 1000m and 1500m long (Fig. 1).

The collected data was processed and the following images produced: TMI, RTP, TMI_1VD, RTP_1VD and AS along with corresponding contours. 2D profile modelling was done along lines 2 through 8 which cover the anomaly of interest. The results of the modelling are shown in Figures 2 – 9. All supplied images, data, dxf's are in WGS84 S52.

The main zone of anomaly 500 has been modelled with two ESE-dipping dyke-type bodies. Both bodies represent the one anomaly but show the heterogeneous nature of the body with a slight change in depth, strike and thickness. The body models shallowest in the south (line 7) and seems to plunge shallowly to the north with the depths ranging from 70m to 100m respectively. The dip of the two bodies are modelled at 70 - 75˚ towards ESE however, the dip may trend to vertical toward the north of the body (lines 2-4). The north of the anomaly shows a change in strike and two bodies have been modelled with a sub vertical dip towards the west. These bodies are deeper (140-150m depth) but have a similar signature to those in the south. Lines 4 and 5 have a second body modelled along the lines to fit the broader response seen in the profiles. This body is small, vertical and has a lower susceptibility than the other bodies. The combined magnetic responses from the modelled bodies match the anomaly amplitudes and overall shape reasonably well. The smaller 'spikes' seen in the data

were not modelled as this may just represent a change in magnetite content or slight changes in depth along the body.

If this target is to be drilled, it is recommended that bodies 1 and 3 are targeted first as this is the thickest and shallowest area.

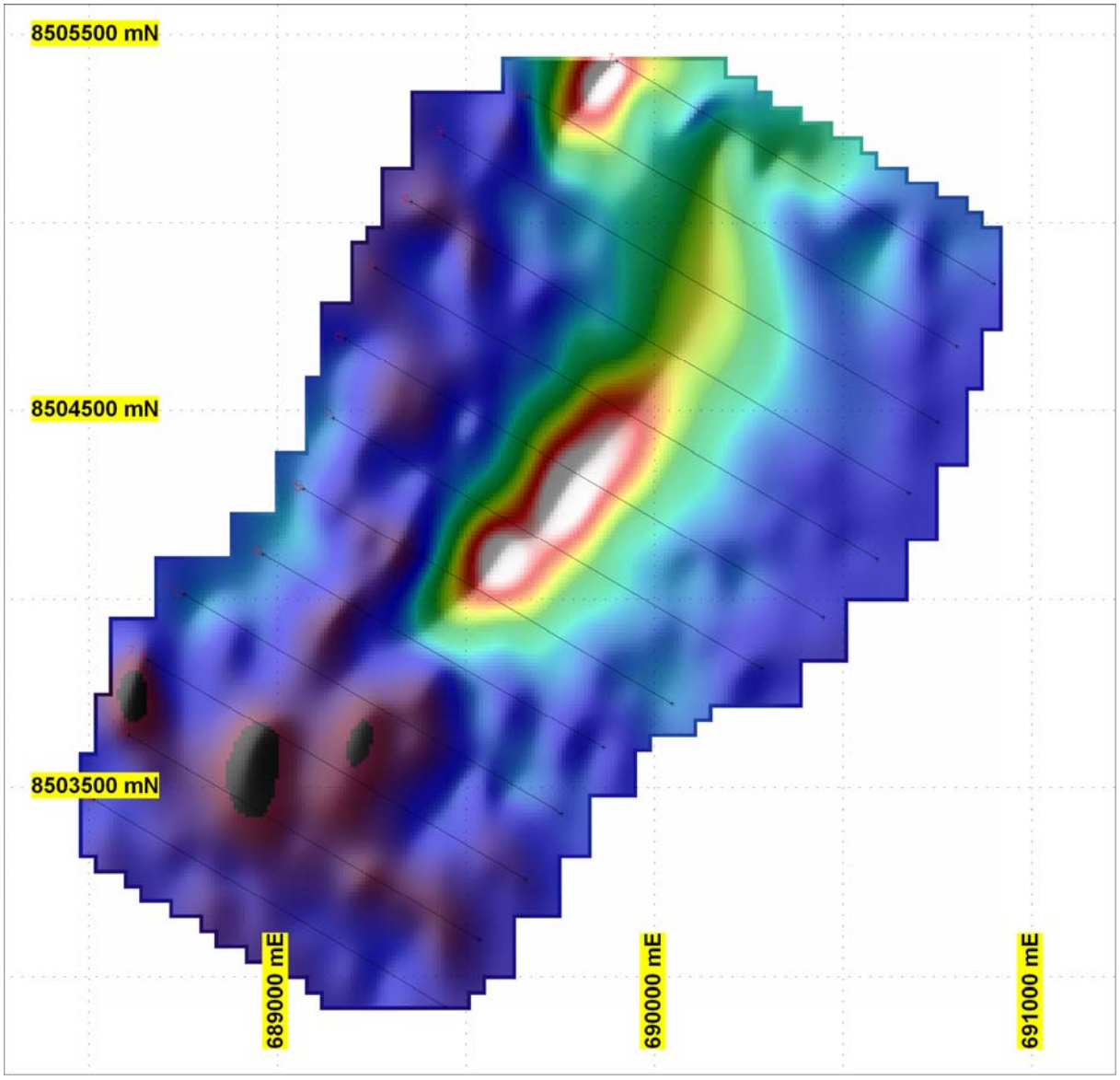
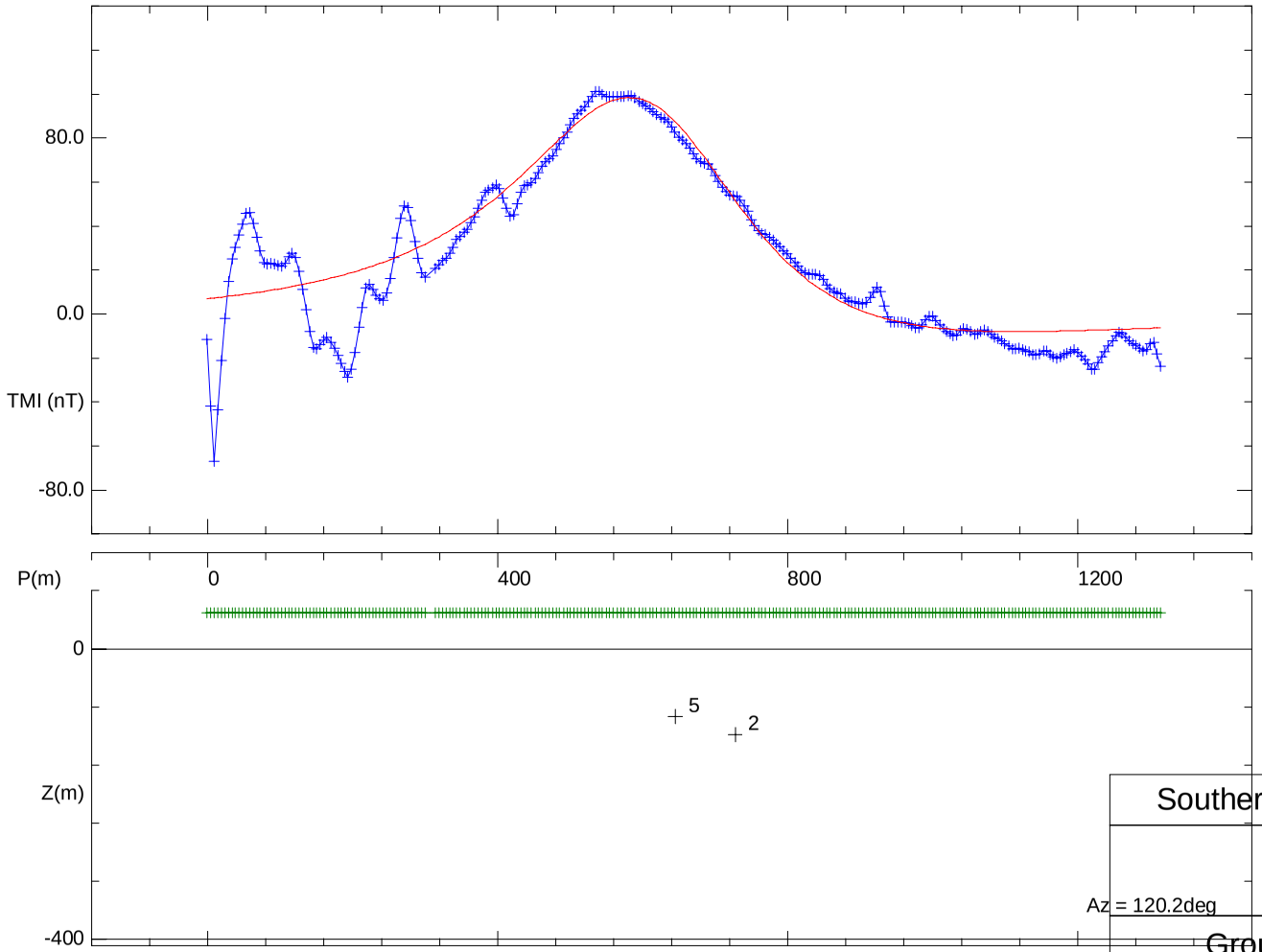


Figure 1. Daly River Ground Magnetic survey coverage overlaying magnetic RTP image.



Model Summary

IGRF : H = 46981; Az = 3.5; Inc = -41.7

Body	Type	X	Y	Z	Strike	Dip	Plunge	Susc.	A	B	C	Slope
5	Dyke	690148.4	8504880.7	-93.4	12.0	0.0	0.0	0.0250	150.0	250.0	550.0	100.0
2	Dyke	690136.4	8504695.2	-118.3	12.0	0.0	0.0	0.0250	150.0	350.0	550.0	100.0

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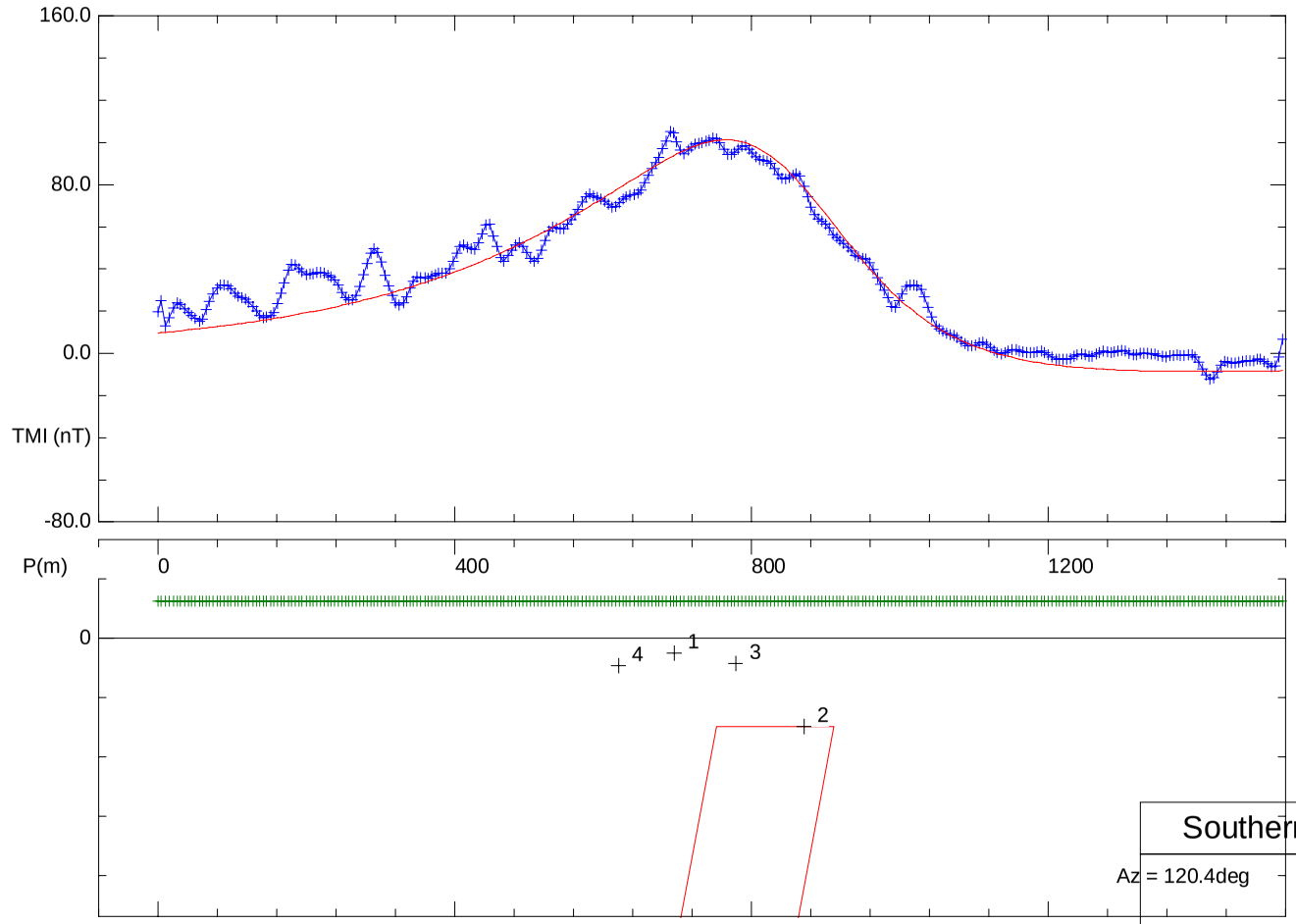
Troy Resources
Daly River

Ground Magnetic Profile Modelling
Line 2

WGS84 S52

Author: L Brett	Original scale: 1:10000	Report No.:
Drawn by: L Brett	Date: 10 Sep 2009	Plan No.: Figure 2



Model Summary

IGRF : H = 46981; Az = 3.5; Inc = -41.7

Body	Type	X	Y	Z	Strike	Dip	Plunge	Susc.	A	B	C	Slope
4	Dyke	689771.6	8504568.7	-37.1	40.0	0.0	0.0	0.0150	120.0	150.0	500.0	90.0
2	Dyke	690136.4	8504695.2	-118.3	12.0	0.0	0.0	0.0250	150.0	350.0	550.0	100.0
1	Dyke	689605.0	8504136.7	-19.4	44.0	0.0	0.0	0.0260	190.0	400.0	750.0	70.9
3	Dyke	689863.0	8504411.2	-33.5	33.0	0.0	2.0	0.0260	180.0	425.0	800.0	75.0

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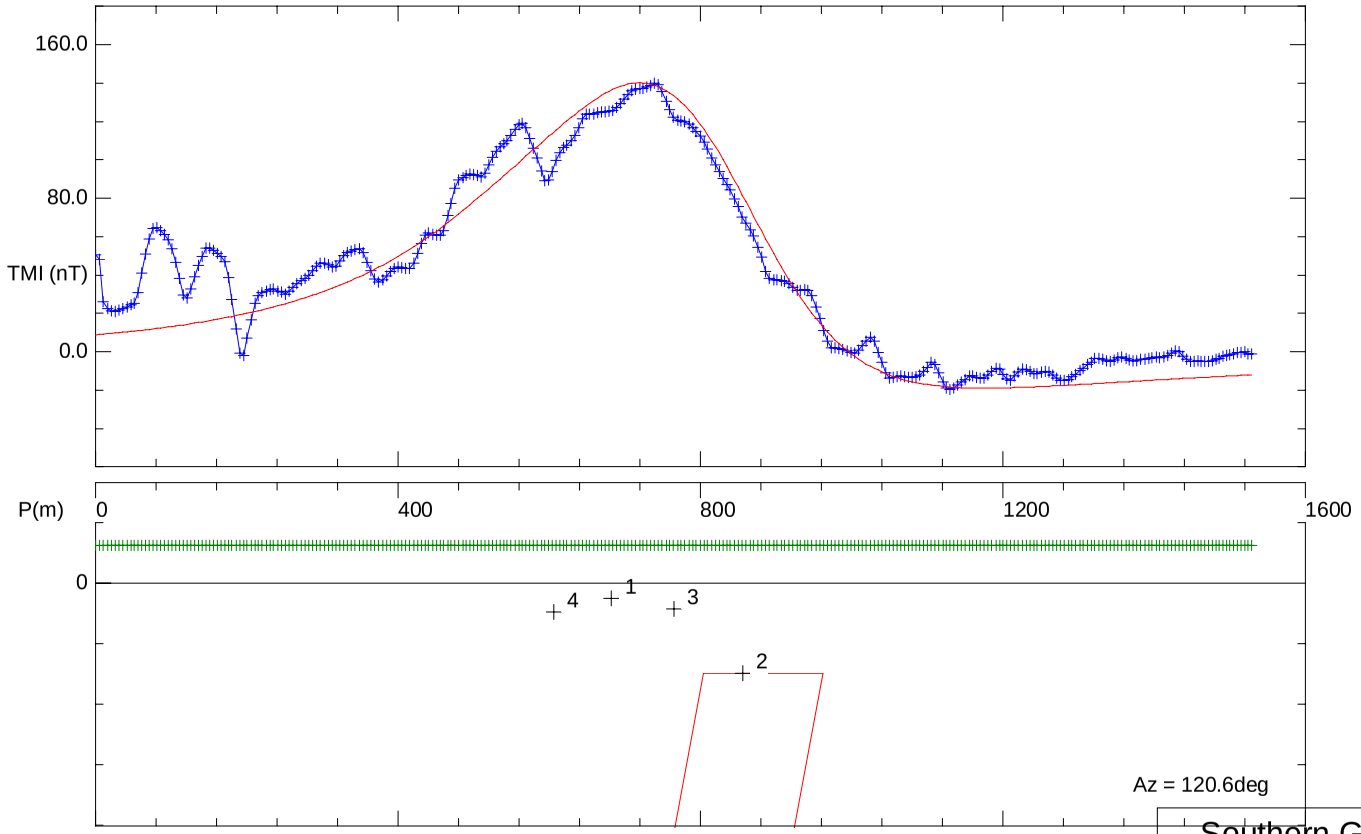
Troy Resources
Daly River

Ground Magnetic Profile Modelling
Line 3

WGS84 S52

Author: L Brett	Original scale: 1:10000	Report No.:
Drawn by: L Brett	Date: 10 Sep2009	Plan No.: Figure 3



Model Summary

IGRF : H = 46981; Az = 3.5; Inc = -41.7

Body	Type	X	Y	Z	Strike	Dip	Plunge	Susc.	A	B	C	Slope
4	Dyke	689771.6	8504568.7	-37.1	40.0	0.0	0.0	0.0150	120.0	150.0	500.0	90.0
2	Dyke	690136.4	8504695.2	-118.3	12.0	0.0	0.0	0.0250	150.0	350.0	550.0	100.0
1	Dyke	689605.0	8504136.7	-19.4	44.0	0.0	0.0	0.0260	190.0	400.0	750.0	70.9
3	Dyke	689863.0	8504411.2	-33.5	33.0	0.0	2.0	0.0260	180.0	425.0	800.0	75.0

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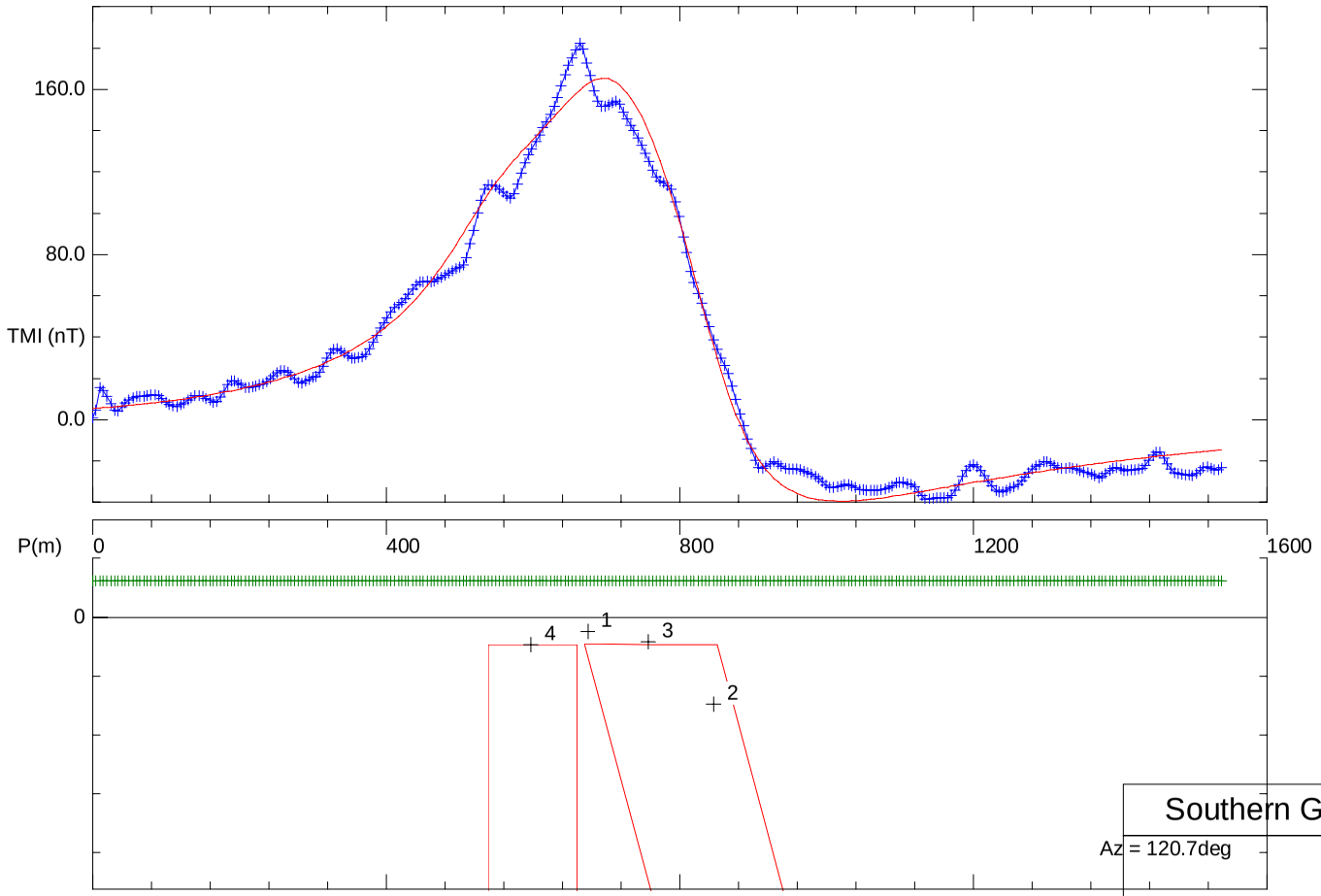
Troy Resources
Daly River

Ground Magnetic Profile Modelling
Line 4

WGS84 S52

Author: L Brett	Original scale: 1:10000	Report No.:
Drawn by: L Brett	Date: 10 Sep 2009	Plan No.: Figure 4



Model Summary

IGRF : H = 46981; Az = 3.5; Inc = -41.7

Body	Type	X	Y	Z	Strike	Dip	Plunge	Susc.	A	B	C	Slope
4	Dyke	689771.6	8504568.7	-37.1	40.0	0.0	0.0	0.0150	120.0	150.0	500.0	90.0
2	Dyke	690136.4	8504695.2	-118.3	12.0	0.0	0.0	0.0250	150.0	350.0	550.0	100.0
1	Dyke	689605.0	8504136.7	-19.4	44.0	0.0	0.0	0.0260	190.0	400.0	750.0	70.9
3	Dyke	689863.0	8504411.2	-33.5	33.0	0.0	2.0	0.0260	180.0	425.0	800.0	75.0

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Troy Resources
Daly River

Ground Magnetic Profile Modelling
Line 5

WGS84 S52

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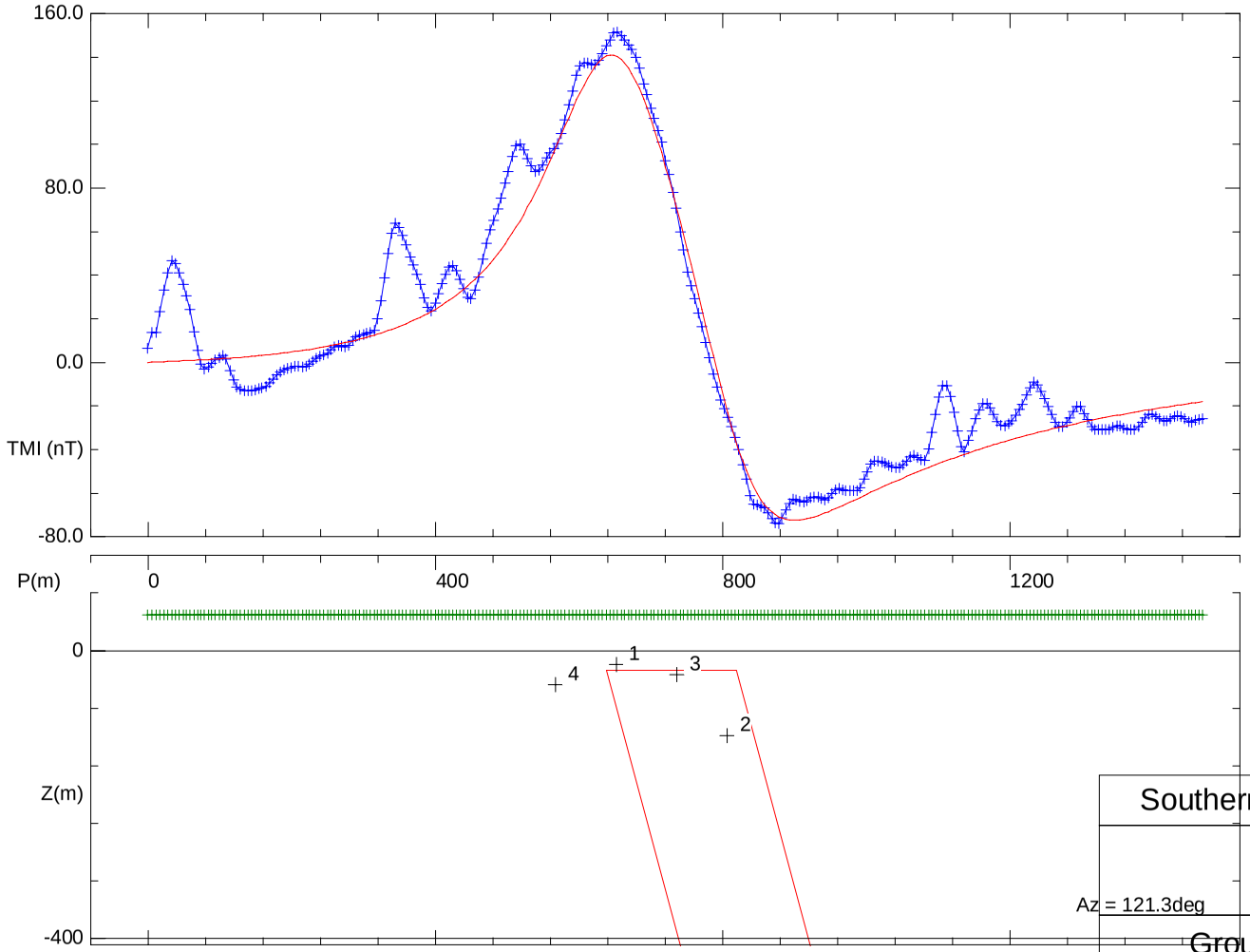
Drawn by: L Brett	Date: 10 September 2009	Plan No.: Figure 5



Az = 121.3deg

Model Summary

IGRF : H = 46981; Az = 3.5; Inc = -41.7

Body	Type	X	Y	Z	Strike	Dip	Plunge	Susc.	A	B	C	Slope
4	Dyke	689768.6	8504570.4	-47.4	40.0	0.0	0.0	0.0150	120.0	150.0	500.0	90.0
2	Dyke	690124.8	8504694.9	-118.3	12.0	0.0	0.0	0.0250	150.0	350.0	550.0	100.0
1	Dyke	689605.0	8504136.7	-19.4	44.0	0.0	0.0	0.0260	190.0	400.0	750.0	70.9
3	Dyke	689897.4	8504455.8	-33.5	34.0	0.0	2.0	0.0260	180.0	450.0	800.0	75.0

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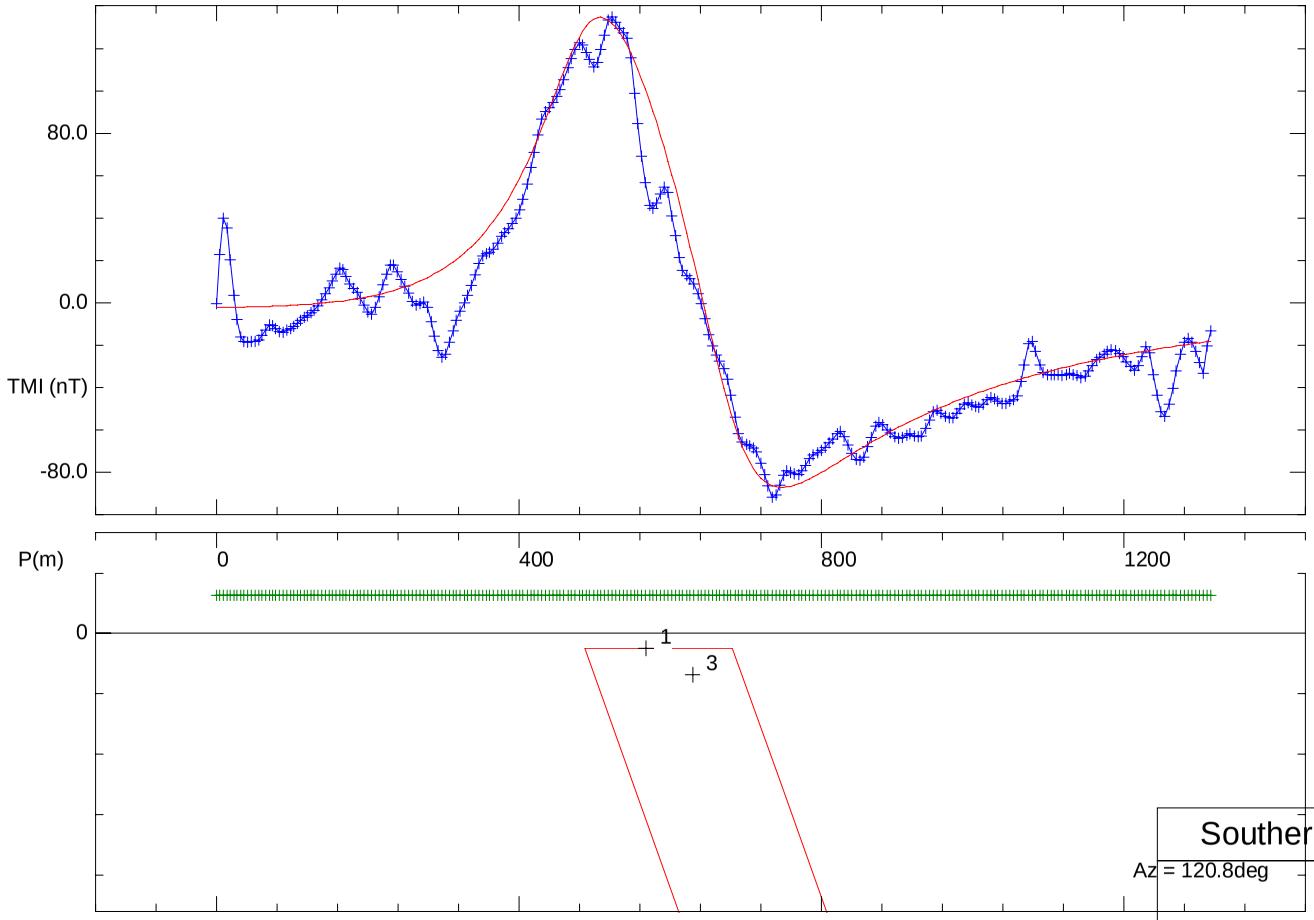
Troy Resources
Daly River

Ground Magnetic Profile Modelling
Line 6

WGS84 S52

Author: L Brett	Original scale: 1:10000	Report No.:
Drawn by: L Brett	Date: 10 Sep2009	Plan No.: Figure 6



Model Summary

IGRF : H = 46981; Az = 3.5; Inc = -41.7

Body	Type	X	Y	Z	Strike	Dip	Plunge	Susc.	A	B	C	Slope
3	Dyke	689874.5	8504469.5	-54.3	34.0	0.0	2.0	0.0260	180.0	500.0	800.0	75.0
1	Dyke	689605.0	8504136.7	-19.4	44.0	0.0	0.0	0.0260	190.0	400.0	750.0	70.9

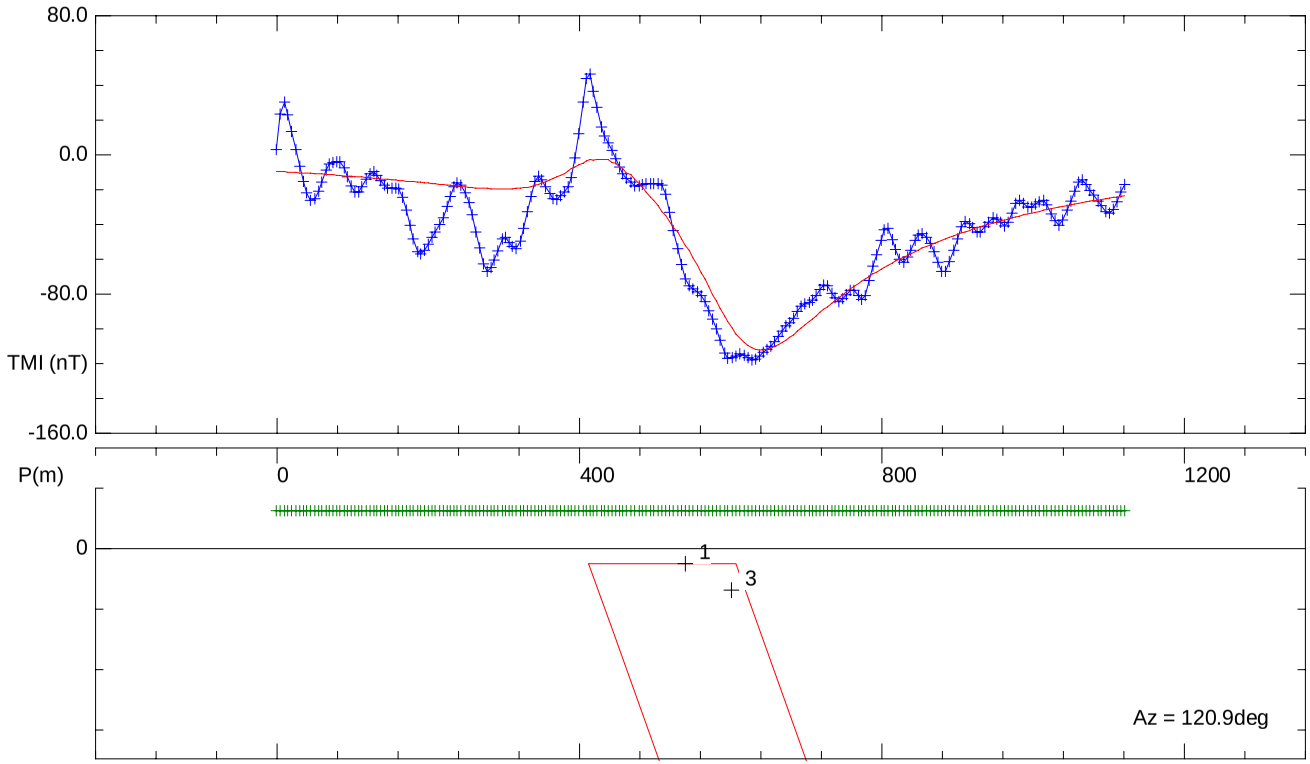
Southern Geoscience Consultants Pty.Ltd

Troy Resources
Daly River

Ground Magnetic Profile Modelling
Line 7

WGS84 S52

Author: L Brett	Original scale: 1:10000	Report No.:
Drawn by: L Brett	Date: 10 Sep2009	Plan No.: Figure 7



Model Summary

IGRF : H = 46981; Az = 3.5; Inc = -41.7

Body	Type	X	Y	Z	Strike	Dip	Plunge	Susc.	A	B	C	Slope
3	Dyke	689874.5	8504469.5	-54.3	34.0	0.0	2.0	0.0260	180.0	500.0	800.0	75.0
1	Dyke	689605.0	8504136.7	-19.4	44.0	0.0	0.0	0.0260	190.0	400.0	750.0	70.9

Southern Geoscience Consultants Pty.Ltd		
Troy Resources Daly River		
Ground Magnetic Profile Modelling Line 8		
WGS84 S52		
Author: L Brett	Original scale: 1:10000	Report No.:
Drawn by: L Brett	Date: 10 Sep 2009	Plan No.: Figure 8

Appendix 3

Soil Geochemical Survey

MMI Methodology & Results

MMI SAMPLING GUIDE

NORMAL ENVIRONMENTS

- In normal soil environments samples should be collected 10 to 25 cm below the surface at a consistent depth.
- The initial step in taking an MMI soil sample requires the 10cm surface soil layer to be scraped away eliminating loose organic matter, debris, and any possible contamination.
- The sample is then taken between 10 and 25 cm depth. The sample should be a “composite” taken over this 15 cm interval.
- Using a plastic scoop or shovel take a cross section of the material between the 10 to 25 cm depth and put into clean, properly labelled plastic bags. Collect approx. 250 to 350 grams of material.

BOREAL ENVIRONMENTS

- Scrape away any extensive organic horizon (O or Ao) and eliminate loose non-decomposed matter, debris, and any possible cultural contamination.
- Penetrate the leaf litter and organic material that still has structure (i.e. decomposing leaves, bark, twigs and peat). Once through to a true A-horizon (where the soil resembles a decomposed mass without any obvious leaf or vegetation visible), discard the top 10cm of this A-horizon material.
- This is the true interface at which to begin your measurements.
- Collect the sample between the 10 to 25 cm below this interface. The sample should be a continuous composite taken from the 15 cm interval.
- Using a plastic scoop take a cross section of the material between the 10 to 25 cm depth and put into clean, properly labelled plastic bags. Collect approx. 250 to 350 grams of material.

GUIDELINES

- Ensure not to mix organic and inorganic soils in the collected sample. For example, if the material within the 10 to 25 cm zone has a mixture of humus and inorganic soil then proceed to the base of this “mixed zone” and collect the sample from the inorganic material.
- **Do not vary depth beneath the true soil interface, or target a specific layer/feature of a soil profile when sampling.** Extensive research has shown that mobile element concentrations are linked to the process of capillary rise and the depth at which water is removed from a soil by evaporation and evapo-transpiration (i.e. expect to see tree roots). Any significant variation in sampling depth and technique can cause severe problems for interpretation. It is imperative that all samples are collected in a consistent manner. In most tropical terrains, the true soil interface is the ground surface. In terrains with deep organic overburden, the true soil interface is the position where plant matter and debris ceases and organic soil material with an obvious mineral content becomes evident.
- **Before actually taking the sample, brush sampling equipment to eliminate residue from previous samples and flush it with soil from the new sample site.**
- Samples **DO NOT** have to be completely free of organics but should have a dominant mineral fraction. During sample collection and handling, no jewellery (watches, rings, bracelets, and chains) should be worn, as this can be a major source of contamination.
- **Moist Samples** – Damp samples should be collected in a similar manner to soils in dry environments. Samples should not be dried in ovens or pulverised in crushers or mills. In the case of dry plastic clays, sample material can

be desegregated by crushing with a mallet between disposable plastic sheets. Sieving should be avoided if there is any possibility of serious cross-contamination during sample collection via the sieve. In this case, larger rocks and twigs/leaves etc. can be removed carefully by hand.

- **Organic Material –** Organic material in the form of fine roots and hairs, decomposing leaf material and other fine organic debris **WILL NOT** adversely affect MMI analyses. Experimental work has shown that variability in sampling depth has a more significant impact on element responses.
- **Contaminated Sites** – Where there is a potential contamination problem, samples should be collected as to avoid any contaminated material and the sampler's judgment must be relied upon. Again, it is extremely important to keep good note of all the potential factors that may affect the sampling and interpretation.

EQUIPMENT

- A 30-cm diameter **plastic** garden sieve or kitchen colander with minus 5-mm apertures, available from hardware and super markets, is ideal for sample collection. This is used only to remove large pebbles or roots.
- **Plastic** collection dish with similar diameter and a kitchen floor brush used for cleaning the sieve and dish between samples;
- A bare steel (no paint) garden spade; and
- **Plastic** snap seal bags, do not use calico or brown paper.
- **Proper labelling of all samples is critical. Do not use water soluble markers or paper inside wet bags.**

OTHER ASSISTANCE

SGS has a number of case studies and technical bulletins to help with all your sampling needs. Please visit our web site at www.sgs.com/geochem for further details or to contact our local SGS representatives. Consultants are available for sampling assistance and/or interpretation.

DR500_MMI_Soil Samples			Ag	Au	Ca	Ce	Co	Cr
ID	East	North	PPB	PPB	PPM	PPB	PPB	PPB
TDRS0001	689530	8504713	8	0.2	240	10500	138	X
TDRS0002	689574	8504688	9	0.2	270	2070	239	X
TDRS0003	689618	8504663	20	0.4	250	2670	180	X
TDRS0004	689661	8504638	22	0.4	230	356	47	X
TDRS0005	689705	8504613	23	0.2	300	447	51	X
TDRS0006	689749	8504588	11	0.3	300	412	121	X
TDRS0007	689793	8504563	18	0.3	240	642	96	X
TDRS0008	689836	8504538	24	0.2	240	740	88	X
TDRS0009	689880	8504513	9	0.3	490	302	334	X
TDRS0010	689924	8504488	18	0.9	490	105	148	X
TDRS0011	689968	8504463	15	0.2	340	2390	46	X
TDRS0012	690011	8504438	11	0.3	350	1360	171	X
TDRS0013	690055	8504413	8	0.2	290	1020	55	X
TDRS0014	690099	8504388	6	0.4	200	1600	98	X
TDRS0015	690143	8504363	9	0.1	220	2680	122	X
TDRS0016	690186	8504338	9	0.3	290	2450	213	X
TDRS0017	690230	8504313	17	0.2	430	2070	295	X
TDRS0018	690274	8504288	7	0.1	200	3370	141	X
TDRS0019	690318	8504263	9	0.3	370	1720	247	X
TDRS0020	689289	8504394	30	0.4	250	1880	159	X
TDRS0021	689333	8504369	54	0.7	310	145	29	X
TDRS0022	689377	8504344	36	0.5	260	199	31	X
TDRS0023	689420	8504319	40	0.4	200	698	105	X
TDRS0024	689464	8504294	29	0.4	250	705	117	X
TDRS0025	689508	8504269	22	0.4	220	627	92	X
TDRS0026	689552	8504244	26	0.4	220	606	61	X
TDRS0027	689595	8504219	50	0.4	270	402	20	X
TDRS0028	689639	8504194	35	0.3	230	479	24	X
TDRS0029	689683	8504169	56	0.4	250	367	20	X
TDRS0030	689727	8504144	35	0.5	220	319	60	X
TDRS0031	689770	8504119	30	0.2	250	739	148	X
TDRS0032	689814	8504094	12	0.4	200	1740	111	X
TDRS0033	689858	8504069	18	0.2	230	1840	88	X
TDRS0034	689902	8504044	51	0.3	240	1020	41	X
TDRS0035	689945	8504019	30	0.3	200	1210	136	X
TDRS0036	689989	8503994	25	0.3	260	1890	59	X
TDRS0037	690033	8503969	64	X	280	2080	81	X
TDRS0038	690077	8503944	127	0.5	650	38	41	X
TDRS0039	689091	8504047	18	0.2	280	442	166	X
TDRS0040	689135	8504022	13	0.1	200	2750	151	X
TDRS0041	689179	8503997	9	0.4	160	2490	156	X
TDRS0042	689222	8503972	10	0.3	200	1190	123	X
TDRS0043	689266	8503947	10	0.3	160	1560	140	X
TDRS0044	689310	8503922	11	0.2	150	1990	158	X
TDRS0045	689354	8503897	10	0.2	130	1790	139	X
TDRS0046	689397	8503872	7	0.1	160	2600	91	X
TDRS0047	689441	8503847	8	0.2	160	3230	106	X
TDRS0048	689485	8503822	4	0.2	220	801	278	X
TDRS0049	689529	8503797	10	0.2	120	2560	80	X

DR500_MMI_Soil Samples			Ag	Au	Ca	Ce	Co	Cr
ID	East	North	PPB	PPB	PPM	PPB	PPB	PPB
TDRS0050	689572	8503772	14	0.2	210	1320	84	X
TDRS0051	689616	8503747	23	0.2	320	480	124	X
TDRS0052	689660	8503722	33	0.2	290	986	114	X
TDRS0053	689704	8503697	66	0.4	260	575	109	X
TDRS0054	689747	8503672	32	0.4	220	335	75	X
TDRS0055	689791	8503647	38	0.2	260	950	53	X
TDRS0056	689835	8503622	36	0.4	240	320	89	X
TDRS0057	689879	8503597	43	0.7	230	385	37	X
TDRS0058	689924	8504488	16	1	470	57	122	X
TDRS0059	689595	8504219	57	0.5	270	400	25	X
TDRS0060	689397	8503872	8	0.5	150	2390	77	X

DR500_MMI_Soil Samples			Cu	Fe	Mn	Ni	Ti	U
ID	East	North	PPB	PPM	PPB	PPB	PPB	PPB
TDRS0001	689530	8504713	740	30	6650	746	18	284
TDRS0002	689574	8504688	550	10	10400	397	22	174
TDRS0003	689618	8504663	1550	4	6080	288	8	137
TDRS0004	689661	8504638	1050	2	4920	67	4	162
TDRS0005	689705	8504613	990	2	9490	106	7	187
TDRS0006	689749	8504588	770	2	10100	105	9	123
TDRS0007	689793	8504563	1380	2	6810	118	7	169
TDRS0008	689836	8504538	1510	3	12200	206	9	209
TDRS0009	689880	8504513	1130	5	5710	133	11	124
TDRS0010	689924	8504488	1410	2	1140	85	4	80
TDRS0011	689968	8504463	1470	6	787	77	20	165
TDRS0012	690011	8504438	1210	9	3590	85	29	177
TDRS0013	690055	8504413	850	4	7060	177	9	150
TDRS0014	690099	8504388	1130	2	7850	184	11	179
TDRS0015	690143	8504363	1160	5	10400	295	17	194
TDRS0016	690186	8504338	960	4	6200	178	12	177
TDRS0017	690230	8504313	450	7	16000	254	13	86
TDRS0018	690274	8504288	1000	5	6750	174	18	187
TDRS0019	690318	8504263	510	5	5400	227	17	112
TDRS0020	689289	8504394	1890	6	11500	238	14	140
TDRS0021	689333	8504369	810	2	5350	66	4	133
TDRS0022	689377	8504344	920	2	7600	75	8	115
TDRS0023	689420	8504319	1200	3	15000	205	10	89
TDRS0024	689464	8504294	1760	3	8730	197	8	67
TDRS0025	689508	8504269	1540	4	5970	117	13	126
TDRS0026	689552	8504244	1040	2	7940	130	10	122
TDRS0027	689595	8504219	610	1	7640	74	4	111
TDRS0028	689639	8504194	730	2	9130	81	4	118
TDRS0029	689683	8504169	770	2	7030	69	7	117
TDRS0030	689727	8504144	630	2	9850	78	11	91
TDRS0031	689770	8504119	810	4	17300	194	8	123
TDRS0032	689814	8504094	1090	6	7610	128	36	132
TDRS0033	689858	8504069	880	5	6650	83	26	125
TDRS0034	689902	8504044	700	4	10400	110	14	134
TDRS0035	689945	8504019	430	5	15600	49	29	138
TDRS0036	689989	8503994	320	15	7260	53	88	110
TDRS0037	690033	8503969	850	26	13300	111	103	134
TDRS0038	690077	8503944	1270	2	5470	103	5	19
TDRS0039	689091	8504047	970	6	18400	177	26	73
TDRS0040	689135	8504022	630	14	9980	212	56	87
TDRS0041	689179	8503997	730	11	13100	161	64	88
TDRS0042	689222	8503972	640	10	6170	129	39	79
TDRS0043	689266	8503947	780	9	16700	102	38	85
TDRS0044	689310	8503922	850	11	13200	111	58	102
TDRS0045	689354	8503897	740	11	10800	109	54	83
TDRS0046	689397	8503872	880	18	9040	110	76	90
TDRS0047	689441	8503847	610	15	5620	110	91	95
TDRS0048	689485	8503822	580	11	11000	118	67	60
TDRS0049	689529	8503797	610	9	6330	66	69	79

DR500_MMI_Soil Samples			Cu	Fe	Mn	Ni	Ti	U
ID	East	North	PPB	PPM	PPB	PPB	PPB	PPB
TDRS0050	689572	8503772	500	6	11400	96	53	72
TDRS0051	689616	8503747	620	5	9670	104	18	88
TDRS0052	689660	8503722	650	7	10100	97	23	111
TDRS0053	689704	8503697	580	4	10400	70	28	98
TDRS0054	689747	8503672	630	2	8360	50	18	113
TDRS0055	689791	8503647	540	5	10500	86	18	102
TDRS0056	689835	8503622	930	3	11700	86	17	163
TDRS0057	689879	8503597	690	2	7940	72	10	134
TDRS0058	689924	8504488	1290	2	880	73	6	72
TDRS0059	689595	8504219	650	1	8270	70	7	132
TDRS0060	689397	8503872	840	12	6040	91	39	103

DR500_MMI_Soil Samples			Pb	Zn	Al	As	Ba	Bi
ID	East	North	PPB	PPB	PPM	PPB	PPB	PPB
TDRS0001	689530	8504713	160	310	62	20	260	X
TDRS0002	689574	8504688	70	50	34	10	250	X
TDRS0003	689618	8504663	140	50	69	X	360	X
TDRS0004	689661	8504638	90	30	55	X	250	X
TDRS0005	689705	8504613	70	70	55	X	240	X
TDRS0006	689749	8504588	180	60	49	X	310	X
TDRS0007	689793	8504563	130	30	57	X	260	X
TDRS0008	689836	8504538	80	30	39	10	280	X
TDRS0009	689880	8504513	70	30	19	X	450	X
TDRS0010	689924	8504488	170	30	27	X	440	X
TDRS0011	689968	8504463	210	50	19	X	480	X
TDRS0012	690011	8504438	240	110	33	X	360	X
TDRS0013	690055	8504413	70	40	36	X	250	X
TDRS0014	690099	8504388	110	30	49	X	280	X
TDRS0015	690143	8504363	150	60	77	X	260	X
TDRS0016	690186	8504338	150	40	44	X	320	X
TDRS0017	690230	8504313	120	70	51	X	510	X
TDRS0018	690274	8504288	290	40	79	X	370	X
TDRS0019	690318	8504263	100	30	40	X	490	X
TDRS0020	689289	8504394	110	60	76	X	440	X
TDRS0021	689333	8504369	160	20	35	X	350	X
TDRS0022	689377	8504344	140	40	42	X	360	X
TDRS0023	689420	8504319	130	90	61	X	340	X
TDRS0024	689464	8504294	240	100	50	X	350	X
TDRS0025	689508	8504269	90	50	45	X	380	X
TDRS0026	689552	8504244	100	50	58	X	410	X
TDRS0027	689595	8504219	110	60	49	X	470	X
TDRS0028	689639	8504194	140	50	60	X	480	X
TDRS0029	689683	8504169	150	50	56	X	640	X
TDRS0030	689727	8504144	100	40	45	X	480	X
TDRS0031	689770	8504119	70	80	49	X	500	X
TDRS0032	689814	8504094	160	70	54	X	460	X
TDRS0033	689858	8504069	150	60	35	X	550	X
TDRS0034	689902	8504044	150	40	68	X	540	X
TDRS0035	689945	8504019	970	30	48	X	540	X
TDRS0036	689989	8503994	2290	30	94	X	960	X
TDRS0037	690033	8503969	1270	50	45	X	1410	X
TDRS0038	690077	8503944	620	30	8	X	1360	X
TDRS0039	689091	8504047	260	290	29	X	640	X
TDRS0040	689135	8504022	470	150	38	X	600	X
TDRS0041	689179	8503997	550	80	29	X	100	X
TDRS0042	689222	8503972	480	80	20	X	270	X
TDRS0043	689266	8503947	630	70	41	X	230	X
TDRS0044	689310	8503922	650	60	42	X	310	X
TDRS0045	689354	8503897	440	70	34	X	340	X
TDRS0046	689397	8503872	460	90	41	X	530	X
TDRS0047	689441	8503847	430	30	50	10	580	X
TDRS0048	689485	8503822	280	70	23	X	580	X
TDRS0049	689529	8503797	1430	50	57	X	630	X

DR500_MMI_Soil Samples			Pb	Zn	Al	As	Ba	Bi
ID	East	North	PPB	PPB	PPM	PPB	PPB	PPB
TDRS0050	689572	8503772	510	70	48	X	540	X
TDRS0051	689616	8503747	290	90	38	X	640	X
TDRS0052	689660	8503722	460	60	53	X	700	X
TDRS0053	689704	8503697	230	50	51	X	580	X
TDRS0054	689747	8503672	440	30	60	X	580	X
TDRS0055	689791	8503647	200	30	57	X	600	X
TDRS0056	689835	8503622	250	40	51	X	490	X
TDRS0057	689879	8503597	370	X	61	X	190	X
TDRS0058	689924	8504488	150	X	27	X	250	X
TDRS0059	689595	8504219	110	60	53	X	290	X
TDRS0060	689397	8503872	560	70	39	X	210	X

DR500_MMI_Soil Samples			Cd	Dy	Er	Eu	Gd	La
ID	East	North	PPB	PPB	PPB	PPB	PPB	PPB
TDRS0001	689530	8504713	1	834	436	256	1390	2910
TDRS0002	689574	8504688	1	471	225	151	867	1680
TDRS0003	689618	8504663	2	294	148	95	542	832
TDRS0004	689661	8504638	3	283	143	85.9	499	458
TDRS0005	689705	8504613	7	344	173	103	598	510
TDRS0006	689749	8504588	3	230	117	73.3	411	418
TDRS0007	689793	8504563	3	373	187	120	665	640
TDRS0008	689836	8504538	3	753	388	230	1280	1270
TDRS0009	689880	8504513	1	196	85.1	76.3	414	537
TDRS0010	689924	8504488	X	22	8.9	12.6	64	106
TDRS0011	689968	8504463	X	288	121	114	592	1320
TDRS0012	690011	8504438	2	173	75.4	70	362	793
TDRS0013	690055	8504413	2	217	104	72.2	399	472
TDRS0014	690099	8504388	2	375	196	121	643	737
TDRS0015	690143	8504363	3	415	216	138	727	1090
TDRS0016	690186	8504338	1	206	103	68.1	360	487
TDRS0017	690230	8504313	2	150	74.6	51.7	265	407
TDRS0018	690274	8504288	1	379	197	121	624	962
TDRS0019	690318	8504263	X	131	57.5	50.3	280	489
TDRS0020	689289	8504394	2	613	312	196	1100	1870
TDRS0021	689333	8504369	4	169	81.1	56	327	300
TDRS0022	689377	8504344	6	199	95.5	61.8	363	331
TDRS0023	689420	8504319	10	320	164	99.1	577	781
TDRS0024	689464	8504294	3	210	99.9	71.2	417	613
TDRS0025	689508	8504269	2	398	190	131	748	1180
TDRS0026	689552	8504244	3	372	189	112	654	793
TDRS0027	689595	8504219	5	237	130	65.5	382	388
TDRS0028	689639	8504194	5	240	129	71.4	414	463
TDRS0029	689683	8504169	5	192	98.9	58	338	356
TDRS0030	689727	8504144	5	181	89.3	58.1	347	436
TDRS0031	689770	8504119	3	387	193	119	709	1070
TDRS0032	689814	8504094	3	406	194	145	807	1700
TDRS0033	689858	8504069	1	405	179	154	827	2010
TDRS0034	689902	8504044	4	244	117	85.6	469	1060
TDRS0035	689945	8504019	2	183	87.8	68.7	363	930
TDRS0036	689989	8503994	1	259	138	86.3	451	1250
TDRS0037	690033	8503969	2	293	143	103	542	1860
TDRS0038	690077	8503944	2	32	16	8.9	54	45
TDRS0039	689091	8504047	10	225	96.9	86.5	481	1090
TDRS0040	689135	8504022	3	489	215	175	988	2520
TDRS0041	689179	8503997	2	436	192	158	870	2190
TDRS0042	689222	8503972	X	295	124	117	622	1530
TDRS0043	689266	8503947	3	247	114	88.4	478	1200
TDRS0044	689310	8503922	2	289	131	105	542	1580
TDRS0045	689354	8503897	X	304	137	113	599	1630
TDRS0046	689397	8503872	1	385	173	141	773	2420
TDRS0047	689441	8503847	X	460	212	170	884	2720
TDRS0048	689485	8503822	X	184	79	75.3	392	905
TDRS0049	689529	8503797	2	295	137	104	545	1500

DR500_MMI_Soil Samples			Cd	Dy	Er	Eu	Gd	La
ID	East	North	PPB	PPB	PPB	PPB	PPB	PPB
TDRS0050	689572	8503772	4	238	106	87.9	476	1200
TDRS0051	689616	8503747	2	165	72.8	60.2	333	561
TDRS0052	689660	8503722	2	317	148	108	606	1140
TDRS0053	689704	8503697	2	172	77.9	62.9	353	595
TDRS0054	689747	8503672	2	193	98.9	61.4	353	418
TDRS0055	689791	8503647	4	175	84.2	62.9	352	735
TDRS0056	689835	8503622	2	345	175	105	606	609
TDRS0057	689879	8503597	7	220	114	60	365	308
TDRS0058	689924	8504488	X	14	5.7	5.8	33	24
TDRS0059	689595	8504219	5	239	132	61.1	370	288
TDRS0060	689397	8503872	X	405	178	145	798	2180

DR500_MMI_Soil Samples			Li	Mg	Mo	Nb	Nd	Pd
ID	East	North	PPB	PPM	PPB	PPB	PPB	PPB
TDRS0001	689530	8504713	6	81	X	X	5850	2
TDRS0002	689574	8504688	X	57	X	X	3300	2
TDRS0003	689618	8504663	X	47	X	X	1930	1
TDRS0004	689661	8504638	X	40	X	X	1390	X
TDRS0005	689705	8504613	X	45	X	X	1600	X
TDRS0006	689749	8504588	X	53	X	X	1220	X
TDRS0007	689793	8504563	X	50	5	X	2000	X
TDRS0008	689836	8504538	X	45	7	X	3710	X
TDRS0009	689880	8504513	X	52	16	X	1360	X
TDRS0010	689924	8504488	X	39	26	X	250	X
TDRS0011	689968	8504463	X	26	9	X	2480	1
TDRS0012	690011	8504438	X	12	8	X	1480	X
TDRS0013	690055	8504413	X	46	X	X	1270	X
TDRS0014	690099	8504388	X	54	X	X	2010	X
TDRS0015	690143	8504363	X	43	X	X	2650	X
TDRS0016	690186	8504338	X	44	X	X	1210	X
TDRS0017	690230	8504313	X	34	X	X	967	X
TDRS0018	690274	8504288	X	36	X	X	2340	X
TDRS0019	690318	8504263	X	39	X	X	1030	X
TDRS0020	689289	8504394	X	43	X	X	4220	2
TDRS0021	689333	8504369	X	55	10	X	908	X
TDRS0022	689377	8504344	X	64	8	X	1010	X
TDRS0023	689420	8504319	X	43	6	X	1950	2
TDRS0024	689464	8504294	X	65	X	X	1530	X
TDRS0025	689508	8504269	X	57	X	X	2770	1
TDRS0026	689552	8504244	X	47	X	X	2050	X
TDRS0027	689595	8504219	X	46	X	X	1090	X
TDRS0028	689639	8504194	X	48	X	X	1230	1
TDRS0029	689683	8504169	X	59	X	X	976	X
TDRS0030	689727	8504144	X	52	X	X	1070	X
TDRS0031	689770	8504119	X	51	X	X	2420	X
TDRS0032	689814	8504094	X	47	X	X	3380	1
TDRS0033	689858	8504069	X	48	5	X	3620	1
TDRS0034	689902	8504044	X	50	X	X	1950	1
TDRS0035	689945	8504019	X	29	14	X	1570	1
TDRS0036	689989	8503994	X	15	7	X	1990	1
TDRS0037	690033	8503969	10	31	X	X	2470	2
TDRS0038	690077	8503944	19	171	8	X	117	X
TDRS0039	689091	8504047	X	54	6	X	2080	1
TDRS0040	689135	8504022	X	53	X	X	4540	2
TDRS0041	689179	8503997	X	40	6	X	3850	2
TDRS0042	689222	8503972	X	32	5	X	2750	2
TDRS0043	689266	8503947	X	29	X	X	2080	1
TDRS0044	689310	8503922	X	34	X	X	2520	2
TDRS0045	689354	8503897	X	28	X	X	2820	2
TDRS0046	689397	8503872	X	30	X	X	3820	2
TDRS0047	689441	8503847	X	30	X	X	4160	2
TDRS0048	689485	8503822	X	34	X	X	1590	X
TDRS0049	689529	8503797	X	25	X	X	2520	2

DR500_MMI_Soil Samples			Li	Mg	Mo	Nb	Nd	Pd
ID	East	North	PPB	PPM	PPB	PPB	PPB	PPB
TDRS0050	689572	8503772	X	39	X	X	1950	X
TDRS0051	689616	8503747	X	58	X	X	1180	X
TDRS0052	689660	8503722	X	34	X	X	2190	X
TDRS0053	689704	8503697	X	54	X	X	1230	X
TDRS0054	689747	8503672	X	53	X	X	1050	X
TDRS0055	689791	8503647	X	49	X	X	1360	X
TDRS0056	689835	8503622	X	62	X	X	1690	X
TDRS0057	689879	8503597	X	49	X	X	909	X
TDRS0058	689924	8504488	X	38	27	X	85	X
TDRS0059	689595	8504219	X	46	X	X	929	X
TDRS0060	689397	8503872	X	31	X	X	3610	1

DR500_MMI_Soil Samples			Pr	Pt	Rb	Sb	Sc	Sm
ID	East	North	PPB	PPB	PPB	PPB	PPB	PPB
TDRS0001	689530	8504713	1290	X	281	X	428	1340
TDRS0002	689574	8504688	699	X	353	X	119	794
TDRS0003	689618	8504663	367	X	382	X	123	490
TDRS0004	689661	8504638	238	X	542	X	114	415
TDRS0005	689705	8504613	275	X	700	X	76	485
TDRS0006	689749	8504588	217	X	683	X	71	354
TDRS0007	689793	8504563	346	X	682	X	139	579
TDRS0008	689836	8504538	677	X	624	X	158	1090
TDRS0009	689880	8504513	242	X	331	X	64	380
TDRS0010	689924	8504488	44	X	202	X	20	63
TDRS0011	689968	8504463	496	X	249	X	196	593
TDRS0012	690011	8504438	297	X	355	X	101	362
TDRS0013	690055	8504413	228	X	507	X	95	358
TDRS0014	690099	8504388	364	X	417	X	269	578
TDRS0015	690143	8504363	523	X	508	X	206	697
TDRS0016	690186	8504338	223	X	568	X	95	335
TDRS0017	690230	8504313	188	X	670	X	57	259
TDRS0018	690274	8504288	461	X	432	X	281	614
TDRS0019	690318	8504263	191	X	269	X	52	259
TDRS0020	689289	8504394	852	X	401	X	216	1030
TDRS0021	689333	8504369	150	X	504	X	71	274
TDRS0022	689377	8504344	169	X	556	X	67	305
TDRS0023	689420	8504319	366	X	449	X	109	522
TDRS0024	689464	8504294	284	X	428	X	58	385
TDRS0025	689508	8504269	535	X	471	X	121	691
TDRS0026	689552	8504244	375	X	491	X	123	557
TDRS0027	689595	8504219	190	X	536	X	69	318
TDRS0028	689639	8504194	216	X	607	X	72	347
TDRS0029	689683	8504169	168	X	584	X	46	280
TDRS0030	689727	8504144	190	X	415	X	59	288
TDRS0031	689770	8504119	473	X	424	X	75	617
TDRS0032	689814	8504094	703	X	428	X	217	773
TDRS0033	689858	8504069	759	X	458	X	187	829
TDRS0034	689902	8504044	401	X	533	X	61	452
TDRS0035	689945	8504019	323	X	339	X	148	350
TDRS0036	689989	8503994	433	X	161	X	259	444
TDRS0037	690033	8503969	573	X	352	X	135	534
TDRS0038	690077	8503944	21	X	51.5	X	X	40
TDRS0039	689091	8504047	424	X	444	X	69	474
TDRS0040	689135	8504022	989	X	360	X	149	1010
TDRS0041	689179	8503997	846	X	361	X	179	883
TDRS0042	689222	8503972	566	X	342	X	126	618
TDRS0043	689266	8503947	446	X	420	X	156	469
TDRS0044	689310	8503922	576	X	407	X	217	559
TDRS0045	689354	8503897	618	X	343	X	190	613
TDRS0046	689397	8503872	879	X	371	X	250	805
TDRS0047	689441	8503847	957	X	366	X	295	918
TDRS0048	689485	8503822	322	X	299	X	123	370
TDRS0049	689529	8503797	573	X	411	X	264	554

DR500_MMI_Soil Samples			Pr	Pt	Rb	Sb	Sc	Sm
ID	East	North	PPB	PPB	PPB	PPB	PPB	PPB
TDRS0050	689572	8503772	408	X	485	X	92	454
TDRS0051	689616	8503747	226	X	620	X	56	296
TDRS0052	689660	8503722	431	X	564	X	99	540
TDRS0053	689704	8503697	233	X	602	X	66	312
TDRS0054	689747	8503672	189	X	639	X	79	287
TDRS0055	689791	8503647	268	X	574	X	51	312
TDRS0056	689835	8503622	297	X	661	X	106	486
TDRS0057	689879	8503597	153	X	554	X	56	275
TDRS0058	689924	8504488	13	X	198	X	16	27
TDRS0059	689595	8504219	157	X	581	X	76	287
TDRS0060	689397	8503872	800	X	360	X	220	801

DR500_MMI_Soil Samples			Sn	Sr	Ta	Tb	Te	Th
ID	East	North	PPB	PPB	PPB	PPB	PPB	PPB
TDRS0001	689530	8504713	X	180	X	188	X	249
TDRS0002	689574	8504688	X	160	X	109	X	158
TDRS0003	689618	8504663	X	150	X	67	X	63.1
TDRS0004	689661	8504638	X	190	X	63	X	44.3
TDRS0005	689705	8504613	X	160	X	77	X	37.6
TDRS0006	689749	8504588	X	220	X	52	X	28.2
TDRS0007	689793	8504563	X	170	X	84	X	67.9
TDRS0008	689836	8504538	X	160	X	167	X	67.8
TDRS0009	689880	8504513	X	200	X	48	X	84.1
TDRS0010	689924	8504488	X	190	X	7	X	30.5
TDRS0011	689968	8504463	X	150	X	71	X	217
TDRS0012	690011	8504438	X	140	X	43	X	143
TDRS0013	690055	8504413	X	180	X	49	X	59.4
TDRS0014	690099	8504388	X	180	X	84	X	126
TDRS0015	690143	8504363	X	130	X	94	X	104
TDRS0016	690186	8504338	X	210	X	46	X	60.6
TDRS0017	690230	8504313	X	300	X	34	X	60.2
TDRS0018	690274	8504288	X	120	X	84	X	142
TDRS0019	690318	8504263	X	140	X	32	X	47
TDRS0020	689289	8504394	X	130	X	138	X	91.1
TDRS0021	689333	8504369	X	150	X	39	X	25.7
TDRS0022	689377	8504344	X	150	X	45	X	27.4
TDRS0023	689420	8504319	X	110	X	73	X	43.9
TDRS0024	689464	8504294	X	130	X	50	X	33.1
TDRS0025	689508	8504269	X	140	X	92	X	74.9
TDRS0026	689552	8504244	X	150	X	82	X	42.3
TDRS0027	689595	8504219	X	190	X	50	X	21.3
TDRS0028	689639	8504194	X	160	X	53	X	27.6
TDRS0029	689683	8504169	X	160	X	43	X	26.7
TDRS0030	689727	8504144	X	140	X	41	X	28.9
TDRS0031	689770	8504119	X	140	X	88	X	52.4
TDRS0032	689814	8504094	X	150	X	99	X	146
TDRS0033	689858	8504069	X	140	X	100	X	163
TDRS0034	689902	8504044	X	120	X	57	X	77
TDRS0035	689945	8504019	X	170	X	44	X	252
TDRS0036	689989	8503994	X	160	X	59	X	239
TDRS0037	690033	8503969	X	150	X	68	X	449
TDRS0038	690077	8503944	X	340	X	7	X	8.9
TDRS0039	689091	8504047	X	160	X	56	X	101
TDRS0040	689135	8504022	X	130	X	118	X	198
TDRS0041	689179	8503997	X	120	X	106	X	240
TDRS0042	689222	8503972	X	130	X	73	X	207
TDRS0043	689266	8503947	X	100	X	59	X	204
TDRS0044	689310	8503922	X	130	X	68	X	254
TDRS0045	689354	8503897	X	110	X	73	X	228
TDRS0046	689397	8503872	X	110	X	93	X	234
TDRS0047	689441	8503847	X	130	X	110	X	271
TDRS0048	689485	8503822	X	130	X	46	X	147
TDRS0049	689529	8503797	X	100	X	69	X	244

DR500_MMI_Soil Samples			Sn	Sr	Ta	Tb	Te	Th
ID	East	North	PPB	PPB	PPB	PPB	PPB	PPB
TDRS0050	689572	8503772	X	160	X	57	X	109
TDRS0051	689616	8503747	X	190	X	39	X	69.6
TDRS0052	689660	8503722	X	160	X	75	X	78.8
TDRS0053	689704	8503697	X	160	X	41	X	55
TDRS0054	689747	8503672	X	130	X	44	X	32.7
TDRS0055	689791	8503647	X	210	X	42	X	62.5
TDRS0056	689835	8503622	X	160	X	77	X	58.2
TDRS0057	689879	8503597	X	180	X	46	X	33.2
TDRS0058	689924	8504488	X	190	X	4	X	22.8
TDRS0059	689595	8504219	X	200	X	50	X	29.8
TDRS0060	689397	8503872	X	110	X	97	X	246

Appendix 4

AAPA Authority Certificate

ABORIGINAL AREAS PROTECTION AUTHORITY

GPO BOX 1890
DARWIN NT 0801
TELEPHONE: 08 8981 4700
FACSIMILE: 08 8981 4169
EMAIL: enquiries.aapa@nt.gov.au

File: *D89/199; 94/201* ***In Reply Please Quote: 63372***

Troy Resources NL
Exploration Manager
44 Ord Street
WEST PERTH WA 6005

Attention: David Otterman

RE: ISSUE OF AUTHORITY CERTIFICATE FOR MINERAL EXPLORATION DRILLING IN SELECTED AREAS WITHIN EL 22495.

I refer to your application for Authority Certificate received on the 22nd May 2008 for the above location.

Accordingly, under the powers delegated to me under Section 19 of the *Northern Territory Aboriginal Sacred Sites Act 1989* I am pleased to issue the attached Authority Certificate.

Please read carefully the conditions outlined in the Certificate. In particular, you should note that it has been issued for an indefinite period of time, providing that the works covered by the Certificate start within the period stipulated in condition 3.

You should also note that the Authority has issued you with two identical copies of digitised maps attached. One copy should be retained with your original Certificate. The second is supplied for use by contractors to avoid unnecessary photocopying of a colour coded document.

Please note that a Restricted Works Area (marked RWA 1), as shown on Annexure 'A' of this Certificate, was imposed on a substantial stretch of land between the proposed works area (Subject Land) and the Daly River Road. Aside from the existence of the recorded site 5070-83 (as shown), this results from a request by Aboriginal custodians who were concerned that possible archaeological sites protected under the provisions of the *NT Heritage Conservation Act* may be affected by works within that area. This Restricted Works Area does not affect in any way the Subject Land and your works program as defined by your application and its existence is brought to your attention as precautionary measure only.

Please note that the cost of this Authority Certificate will be $5,147 and an invoice will be issued to you by the Department of Corporate and Information Services (DCIS). The terms and conditions of the invoice will require you to make payment within 30 days of receipt.

If you have any further queries regarding this Authority Certificate please contact Gareth Lewis on 89814700.

Yours faithfully,

DR BEN SCAMBARY

Chief Executive Officer

18 March 2009

ABORIGINAL AREAS PROTECTION AUTHORITY

AUTHORITY CERTIFICATE

Issued in accordance with Section 22 of the Northern Territory Aboriginal Sacred Sites Act 1989

REFERENCE: D89/199; 94/201 (Doc: 63372) C2009/045

APPLICANT: Troy Resources NL
44 Ord Street
WEST PERTH WA 6005

SUBJECT LAND: Selected tracks and drilling areas within EL 22495, as shown on the map which is annexure 'A' hereto.

PROPOSED WORK OR USE: Mineral exploration drilling including some ground clearing along the tracks and drilling pad areas as needed.

CONDITIONS:

1. The applicant shall ensure that the conditions of this Certificate are included in any subsequent contract or tender documents for the works or use described herein.

2. The applicant shall ensure any agent, contractor or employee is aware of the conditions of this Certificate and the obligations of all persons (who enter on, or carry out works or use land on which there is a sacred site) under Part IV of the *Northern Territory Aboriginal Sacred Sites Act 1989.*

3. This Certificate shall lapse and be null and void if the works in question or the proposed use is not commenced within 24 months of this Certificate.

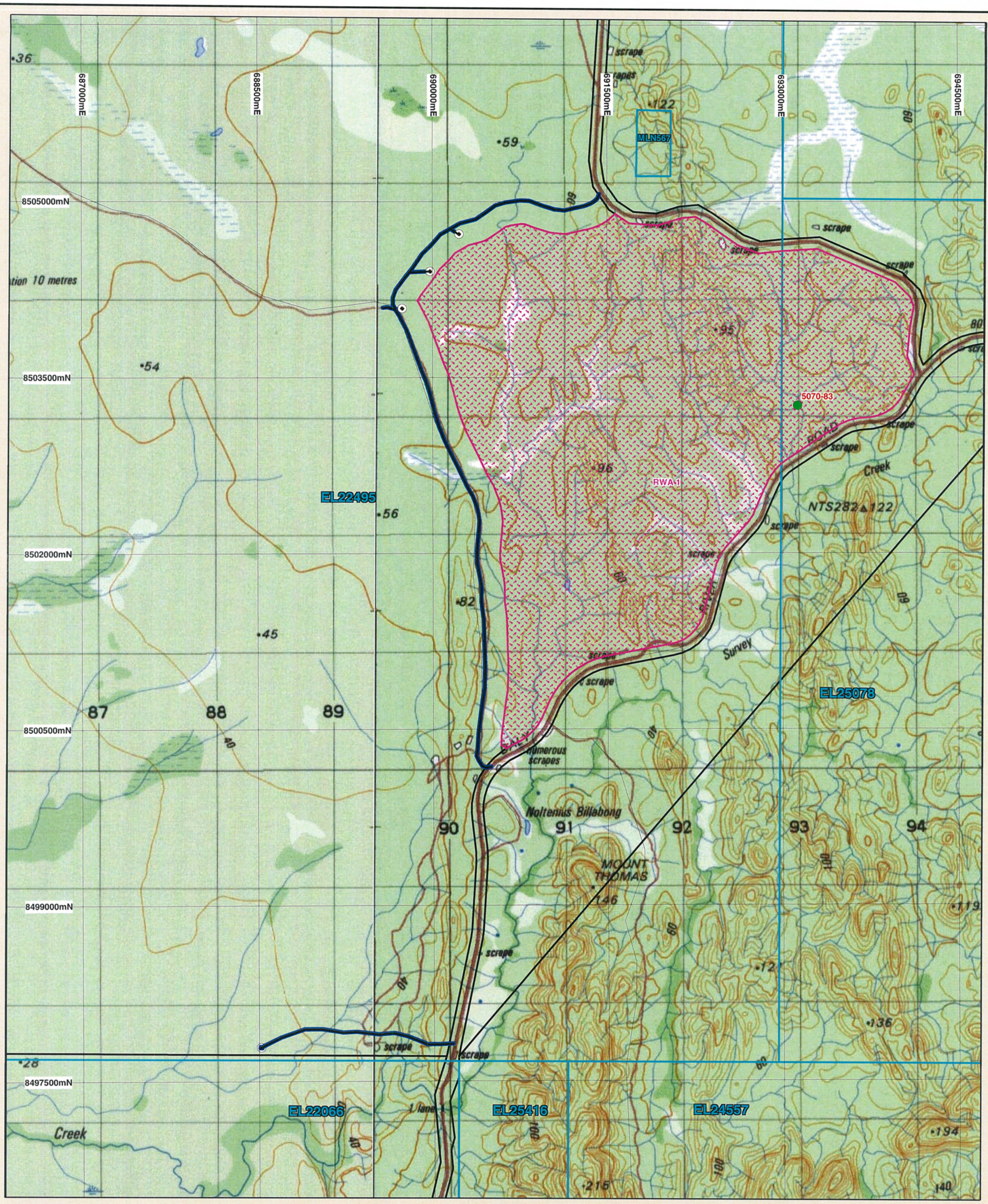
4. The applicant shall ensure any agent, contractor or employee is aware of the content of section 40(1) of the *Northern Territory Aboriginal Sacred Sites Act 1989* which provides that this Certificate does not negate the need for consent, approval or permission for the subject works or use of the land which may be required under another statute.

5. No works are allowed within the Restricted Works Area 1 associated with site 5070-83, as shown on Map, which is Annexure 'A' hereto.

The COMMON SEAL of the
ABORIGINAL AREAS PROTECTION AUTHORITY
was hereto affixed on the 18 day
of March 2009

ABORIGINAL AREAS PROTECTION AUTHORITY
THE COMMON SEAL OF

DR BEN SCAMBARY
Chief Executive Officer



Prepared and produced by Aboriginal Areas Protection Authority (AAPA), Darwin, Northern Territory of Australia 18/03/2009

This map forms part of a Certificate issued by the Authority under section 22 of the *Northern Territory Aboriginal Sacred Sites Act 1989*. No reliance should be put on the accuracy of the information on the map except as it relates to the land the subject of the Certificate and the fact that sites are not shown in other areas shall not be taken as a definitive indication of the existence or lack of existence of sites.

Mineral Exploration Drilling
EL22495

ANNEXURE "A" MAP FORMING PART OF

AUTHORITY CERTIFICATE C2009/045

ISSUED TO: Troy Resources NL

AUTHORISED COPY: NUMBER 1 OF 5.

CHECKED BY: ..... DATE 18/03/2009

T BYFIELD - SENIOR LAND INFORMATION OFFICER

J2008/0438

SCALE 1 : 30000

0 600 1200

metres

Projection: MGA Zone 52
Horizontal Datum: GDA94

KEY

- Subject Land
- Restricted Works Area
- Mining Tenure
- Recorded Site
- Drilling Site