TNT MINES LIMITED

ABN 67 107 244 039

EL27/2004

ROSSARDEN-ROYAL GEORGE

ANNUAL REPORT TO 26 NOVEMBER 2012

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ABSTRACT

TNT Mines carried out a trial ground magnetics survey over the Gipps Creek prospect using a continuous sampling magnetometer. No tracks were cut for this work and the data were consequently very noisy due to the terrain and thick vegetation in gullies. Future surveys should use discrete sampling every few metres to improve the data quality. The data will be interpreted in conjunction with part of the geochemical data acquired from 651 soil samples collected in the same area and targeting tungsten-tin greisen mineralisation. 179 soils samples were collected in the Storeys Creek-Aberfoyle area for the Cupola Project. This work is designed to detect the presence of underlying potentially mineralising apophyses using multi-element geochemistry. Digitizing of data for the production of a 3D model of the Lutwyche-Aberfoyle mineralisation has been partially completed.

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FIGURES

FIGURES (Cont.)

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1.0 INTRODUCTION

This report is a summary of the exploration activities conducted on the Rossarden – Royal George exploration licence, EL27/2004 (Figures 1 and 2), for the period ending 26 November 2012.

Much of sections 1 and 2 are taken from the independent geologist's report that appears in the TNT Mines rights issue prospectus, November 2011.

The licence was originally acquired as part of a program to acquire all the significant hard-rock tin and tungsten assets in northeast Tasmania which may be suitable for open pit development. EL27/2004 also contains the only significant uranium prospects in Tasmania.

Hard rock tin and tungsten in north-east Tasmania is associated with the presence of altered alkali-feldspar granites and aplites, and deposits occur both within the granites (endogranitic types) and within the Mathinna Group sediments lying above or adjacent to the intrusive granites (exogranitic types).

Endogranitic types can be broadly put into two categories: flat or relatively flat-lying greisens of relatively low grade e.g. the Anchor deposit (0.2% Sn) which are amenable to open pitting; and steeply dipping greisen/quartz greisen lodes with higher grades e.g. Royal George (0.65% Sn) and Rex Hill (grade up to 1.4%).

The exogranitic types occur as sheeted veins or fracture stock works with the Mathinna Group slates and quartzites. The ideal situation for development of this style of mineralisation is above a cupola of altered aplite, where mineralising fluids are focussed into fault fissures formed during forcible doming caused by the intrusion of the aplite. They have potential for high tonnages at moderate to good grades, e.g. Aberfoyle and Storeys Creek.

The Aberfoyle mine operated between 1916 and 1982 and produced 2.1 million tonnes of ore at 0.91% Sn and 0.28% WO_3. The Storeys Creek mine operated between 1892 and 1982 during which time it produced 1.1 million tonnes of ore at 1.09% WO_3 and 0.20% Sn

1.1 Location and tenure

The licence is located around the towns of Avoca, Royal George and Rossarden in the Fingal valley, approximately 30km south-east of Launceston (Figures 1 and 2). Avoca is the main centre and is accessed via the Esk Main Road Hwy, off the Midlands Highway. Access through the tenement is via sealed and unsealed public roads and four-wheel drive tracks. The tenement can be found on the St Pauls (1:100,000) LTIS map sheets.

Topographically the area is of variable. The tenement is dissected by the broad valleys of the South Esk and St Pauls rivers. Undulating grazing and cropping land to the south rises to the forested foothills of the dolerite massif of Snow Hill while to the north there is a sharp rise to the peneplaned St Clair surface at 600-800 metres. The area is mostly forested with some grassy country. The surface is deeply dissected to the south by several creeks including Storeys Creek, Aberfoyle Rivulet and Castle Carey Rivulet and to the north rises up through dolerite scree to the 1500m Ben Lomond massif which lies just to the north of the tenement.. In general, vehicular access is good with various unsealed vehicle 4WD tracks accessing the numerous old workings.

The licence covers a total area of 212 km^2. The licence is wholly owned and managed by TNT Mines Limited.

E27/2004 was granted to Allstrong Investments Pty Ltd on 27 November 2004. Minemakers Limited ("Minemakers"), via its wholly owned subsidiary, Minemakers Australia NL, purchased

Allstrong outright on the 23rd November 2006. Allstrong subsequently underwent a change of name to Minemakers TTT Pty Ltd on the 18th May 2007. On the 15th April 2011, Minemakers TTT Pty Ltd changed its name to TNT Mines Limited. On the 19th July 2011, TNT Mines Limited demerged from the Minemakers group to become a separate public unlisted company.

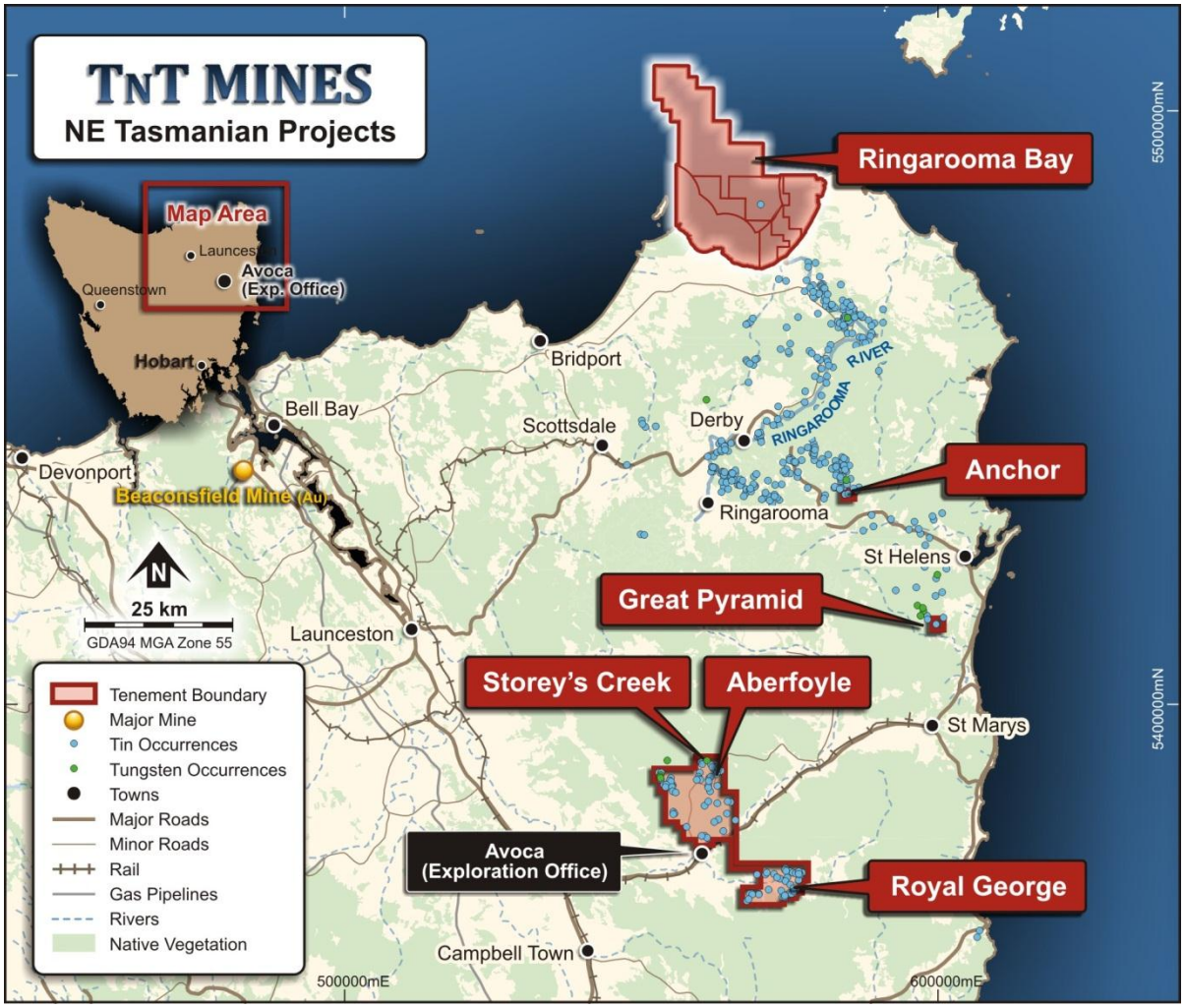

Figure 1: Location plan of TNT Mines tenements in north-east Tasmania

1.2 Geology overview

A Silurian/Devonian sedimentary succession (the Mathinna Group) has been folded and intruded by Devonian granites. After uplift and peneplanation during Carboniferous times it was unconformably overlain by Permian/Triassic sediments followed by intrusion of a 300m thick Jurassic dolerite sill. A further period of erosion then removed the post-Carboniferous stratigraphy from the area of the mines leaving the Ben Lomond massif comprised of dolerite. The Mathinna Group has only been subjected to low grade regional metamorphism. Contact metamorphic effects close to the granite are generally minor with the development of some biotite spotting within 60m of it (Figure 2).

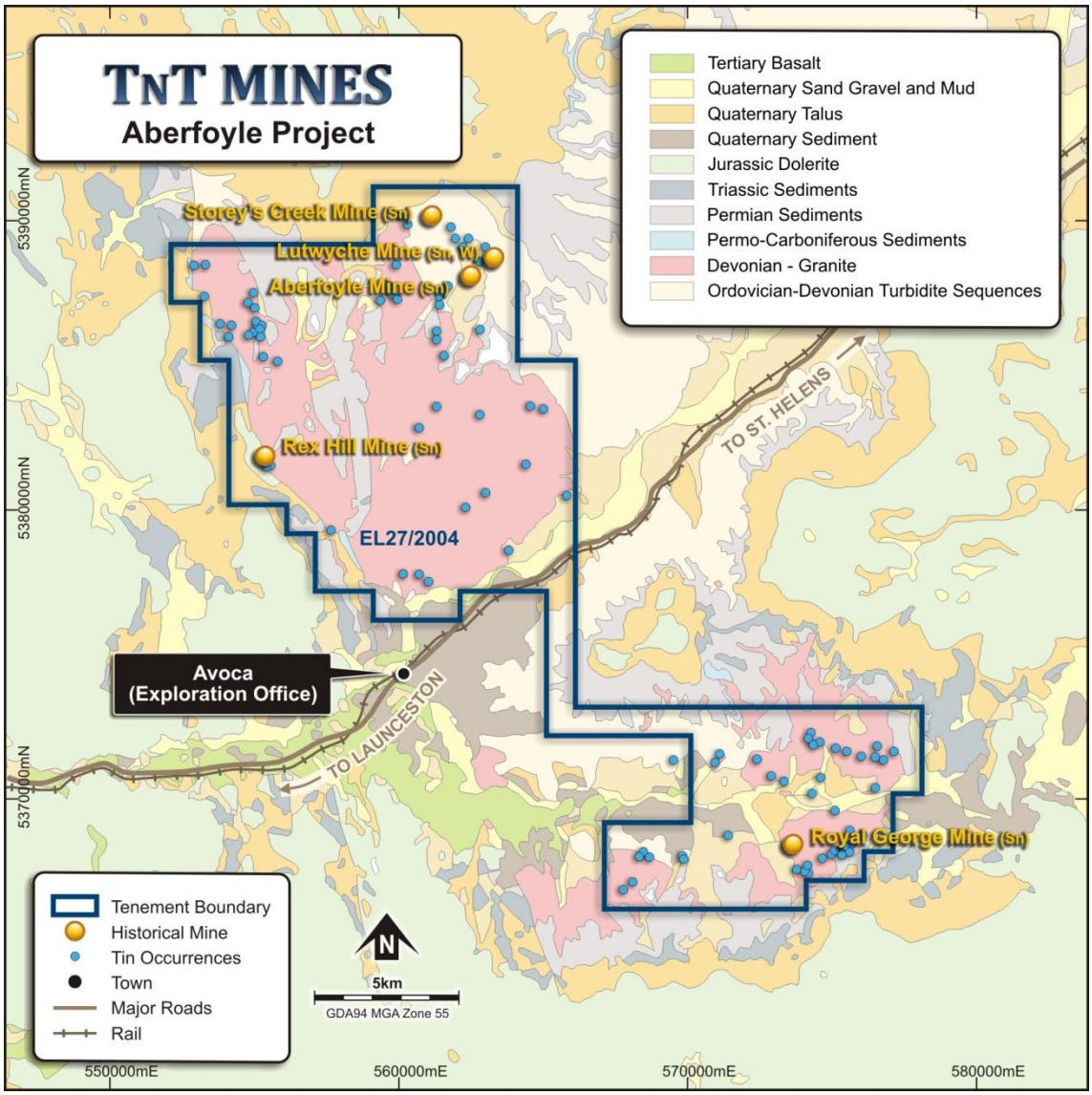

Figure 2: Regional geology - EL27/2004

1.2.1 Aberfoyle-Lutwyche Mine area geology

At Aberfoyle the sediments are tightly folded along axes striking NW with near vertical dips and a gentle plunge. Cleavage is insignificant but bedding plane and axial plane faults are common and are important in the control of ore deposition.

The mineralisation occurs in northerly trending fissure veins with steep westerly dips, occupying a zone about 60m wide in the folded slates and siltstones. The vein swarm lies directly over an aplite cupola, intersected by the main shaft, and which is interpreted to be genetically connected with the mineralisation. The workings extend over a strike of 400m but recent drilling by Minemakers has intersected mineralised veins over a strike length of at least 800m. There are nine veins in five groups of which the 26 vein system and the western veins are the most important. The vein system is shown on the cross section of the mine presented in Figure 5. Underground, five major folds and 19 lesser folds were recorded that form a complex small scale anticlinorium with a north westerly trend. The fold axes plunge at about 25° to the southeast and the axial planes dip at 85° to the southwest. This vein system extends 180m south of the Brandon Shaft as an intense swarm of narrow mineralised veins that may be amenable to open pit mining (McGushin & Keyes 1981).

There are two main groups of faults striking north and northwest. The north striking faults are the most important and are known as the Aberfoyle No. 1 Fault System. It has been traced from the

surface down through all levels of the mine. The total throw on these faults varies from 37m at the north end of the mine to 12m at the south end. The northwest to southeast faults form a small but important zone of strike faults which trends parallel to the fold axes of the Mathinna sediments (plunging gently southeast) and dip steeply to the southwest.

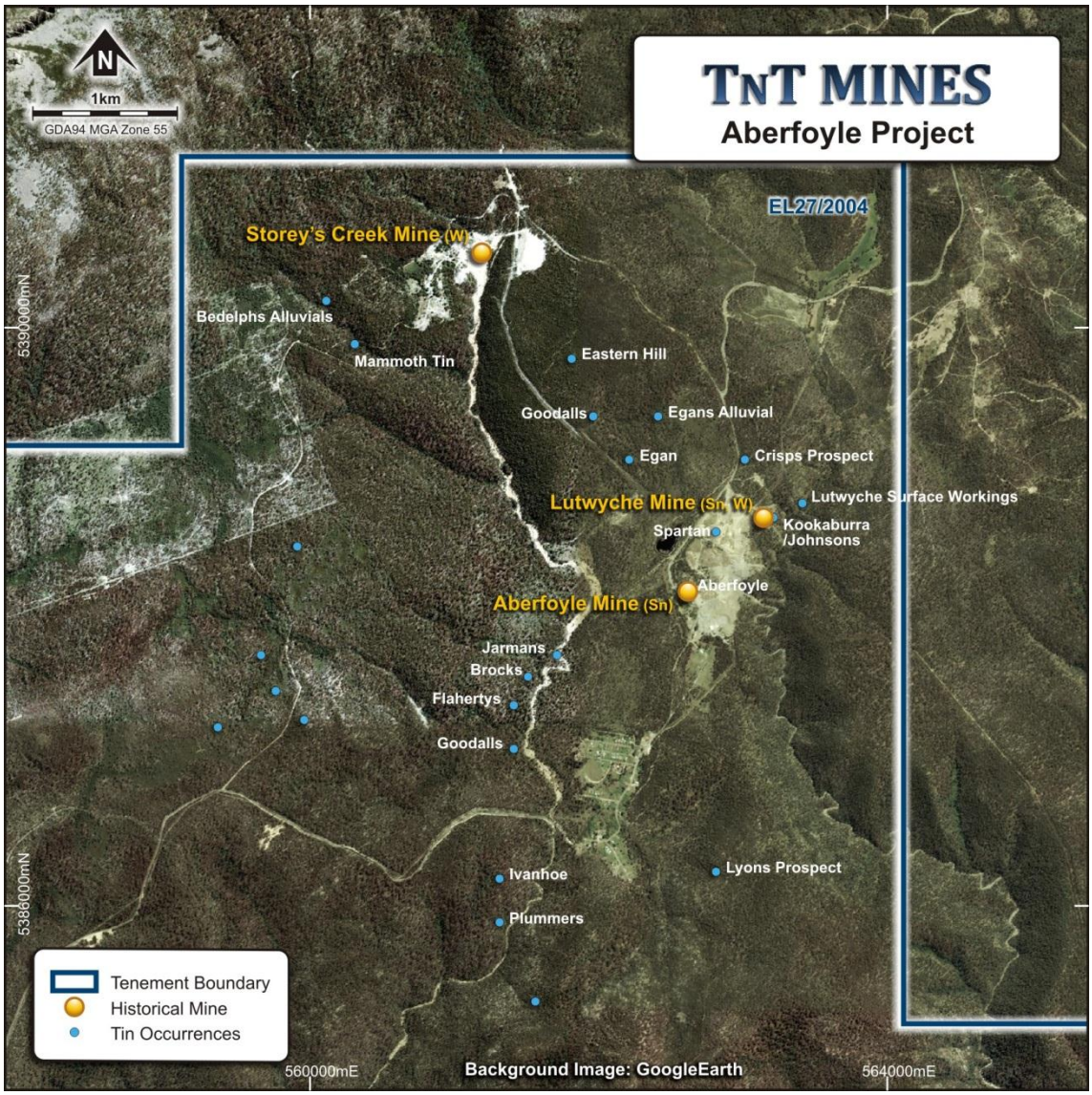

Figure 3: Northern prospects – EL27/2004

At the Lutwyche prospect two sets of tin bearing veins up to 100mm wide are reported with one group striking between 320° and 340° and dipping at 70° to the southwest and the other striking between 40° and 65° and dipping 70°- 85° to the southeast. The Lutwyche zone of fracturing and quartz veining can be traced 750m southeast of the Aberfoyle Rivulet before it becomes covered with Permian rubble, and intense quartz veining is reported 2.4km along strike to the ESE. The mineralisation at Lutwyche is open both at depth and closer to surface. An exploration target of 1.0-1.2Mt at 0.9 to 1.1% combined tin and tungsten seems reasonable for extended zone of mineralisation intensively tested by Aberfoyle.

Tin veins are also reported from the Kookaburra Prospect between Lutwyche and Aberfoyle. At Brock's Show, about 1km NW of the town of Rossarden, narrow tin veins and cassiterite deposited in joints were mined to a depth of 15m and produced about eight tonnes of tin.

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1.2.2 Storeys Creek Mine area geology

The Storey's Creek Mine is based on a NNW trending sheeted vein system that forms a zone 30-50m thick and 300m long, dipping 25°- 30° southwest. While there are two main veins these are part of a group of veins with varying dips and strikes. The large veins were stoped out by earlier miners. In addition to these large veins there were other smaller veins which were too small to be mined. TNT Mines plans to assess the ground in the vicinity of the mine to determine if the fine veins form an economically mineable deposit.

The wolframite $(Fe,Mn)WO_4$ and cassiterite (SnO_2) mineralisation occur in quartz veins hosted by Silurian/Devonian sandy shales of the Mathinna Group. In the vicinity of the mines these sediments are described as highly siliceous massive competent sub-greywackes. The Mathinna Beds are closely folded along north westerly axes and pitch to the southeast at about 20° at Storey's Creek. These sediments have been intruded by numerous steeply dipping basic dykes up to 1m wide at right angles to the bedding. These dykes were emplaced prior to the mineralisation and are highly altered. Three abnormally flat dykes at 45° to the normal strike, known as "caunter" dykes, were subsequently refractured along their walls to allow deposition of rich veining.

A Devonian granite batholith, the Ben Lomond Granite, outcrops over an area of 130km^2 in the environs of the tin mines and its emplacement generated the mineralizing fluids which deposited the veins in suitable fractures in the sediments. At the surface at Storey's Creek the granite outcrops about a kilometre west of the mine. It is a coarse grained porphyritic leucogranite similar to some of the granites forming the Blue Tier Plateau in this region. The granite has a finer grained contaminated margin indicating that it has absorbed some country rock along the contacts which cut across the bedding. In places the upper contact granite bulges and some of these are topped by aplite cupolas. Such a cupola is present beneath the Storey's Creek Mine at a depth of 180m and the bulges are interpreted to have developed where the mineralizing fluids left the granite.

At Storey's Creek Mine two main veins were worked. The No.1 vein strikes at 350° and dips west at 20° and the No.2 vein strikes at 335° and dips west at 37°. The veins are 40m apart at the adit level but the two merge at a depth of 70m below adit level where they are 5.5m thick. North and south of the intersection they diverge with No.1 being 1.0m to 1.3m thick and No.2 being 0.7m to 2.5m thick. The section of the mine shown in Figure 6 gives a simplified view. The veins are somewhat irregular along strike and branch and join in places and there is also a sheeted vein system of narrow veins. In addition to the main vein system, five narrow tin-rich caunter veins run into the footwall for up to 70m, three of which are along caunter dykes. The grade of the mineralisation varies with the distance from the cupola and generally economic mineralisation is only found between 30m and 330m above a cupola. At Storey's Creek the cupola is about 180m below surface.

The wolframite and cassiterite were usually deposited early on the walls of the veins and the mineralisation extends from the surface to the full depth of the mine (200m below surface), a length of 400-450m down the dip of the veins, but is not wholly regularly distributed. The veins were worked over a strike length of about 700m.

In the northern central part of the mine, large patches of late stage sulphide mineralisation occur replacing the veins at their intersection with a set of transverse joints or faults. The sulphides include galena and sphalerite with some stannite, and, because galena contaminates the tin concentrates, these patches of sulphides were usually left as pillars.

1.2.3 Royal George Mine area geology

The country rock in the area of the Royal George Mine consists of granitic rocks which intrude Silurian to Devonian sandstones and siltstones of the Mathinna Beds. The main granite is coarse grained with porphyritic feldspar and biotite in a groundmass of quartz, feldspar, and biotite, with accessory tourmaline. This granite also exhibits other phases in some localities such as pegmatites, graphic granite, aplitic dykes, etc. Extremely hard fine grained granite is also present but shows no particular relationship to the mineralisation which is present in both types of granite. The granites are assigned a Devonian age and are considered to be variants of the Ben Lomond granite.

At Royal George, tin mineralisation has been introduced into the granitic rocks over a strike length of 250m. The deposit is formed by a steeply dipping zone of lodes striking at 310° to 320° and dipping 75° to 82° to the southwest. The lodes are variably spaced and the group narrows to the north. They are variously described as joints or fracture planes with some showing good slickensides. The zone of mineralisation plunges shallowly to the north. A surface plan showing the old open pit and the location of the drill hole collars is presented as Figures 7 and 8

Pneumatolytic fluids have travelled up the lodes altering the granite to greisen and introducing tin and base metal sulphides into the wall rock. This mineralisation penetrates the walls of the lodes to varying extents, typically up to 1.5m wide, and the mineralised group of lodes may be up to 20m wide but not continuously mineralised over this width. Between 5-20% disseminated pyrite, sphalerite, arsenopyrite and chalcopyrite are present in the strongly mineralised greisen bands. Sulphides average 3% within the host granite for 30m each side of the main zone of mineralisation. The cassiterite is described as fine grained and rarely visible but coarser cassiterite is reported in the higher grade zones below the old stoping.

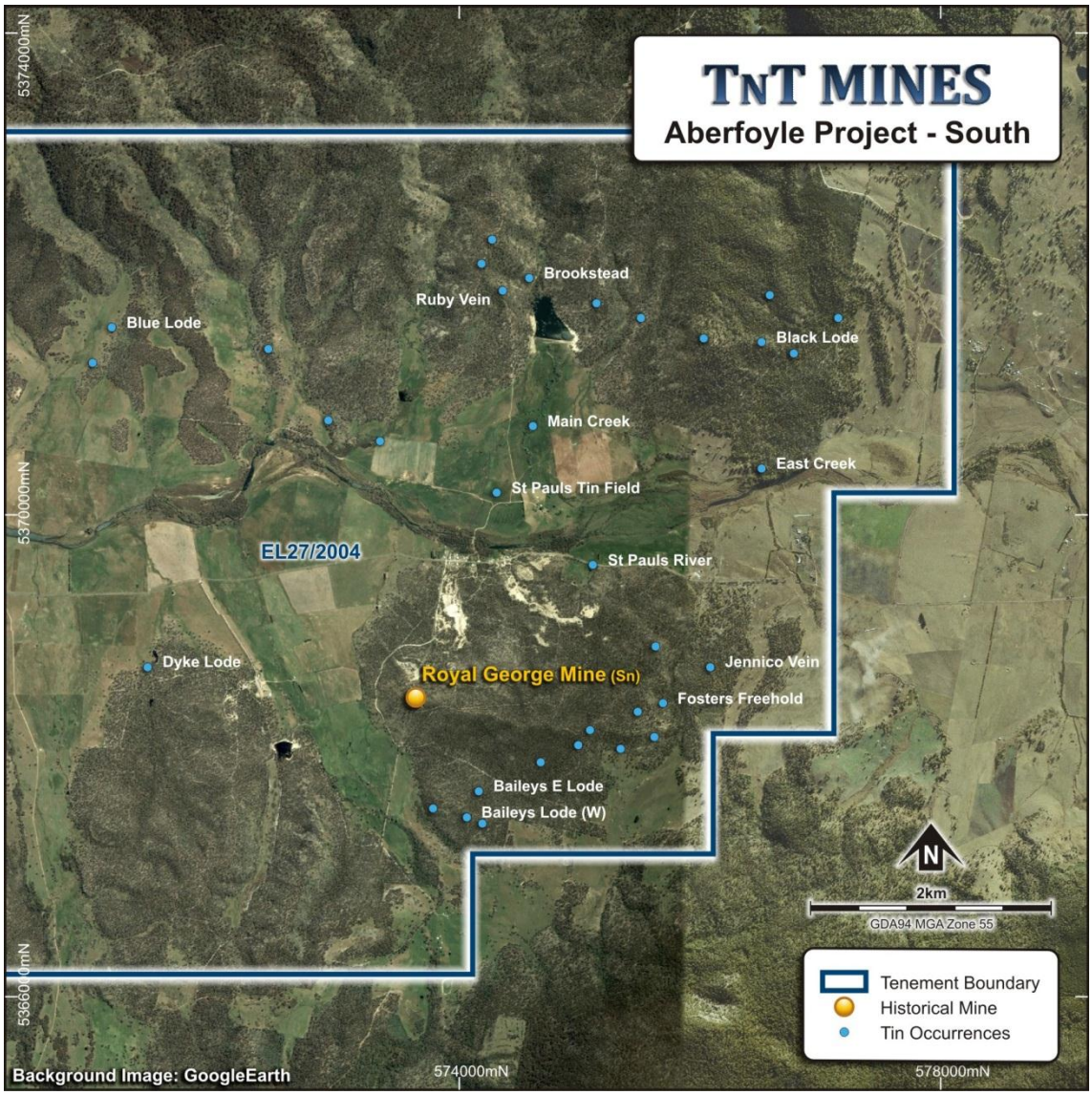

Figure 4: Royal George prospects

1.2.4 Rex Hill and Gipps creek area Mine area geology

Lying 9km SW of Aberfoyle is the old Rex Hill Mine which was discovered prior to 1890 and had its main period of production from 1893-1909. The mineralisation is present in greisenised granite containing a high grade quartz vein on a lode. At the surface the mineralisation was identified as silver-lead but as this was mined it was found to be essentially tin accompanied by base metal sulphides. The ore was pipe-like at the surface but became dyke-like at the No.3 Level (90m below surface). Details of production are sketchy but in total 20,000t of ore may have been processed with an average head grade of 2.5% Sn and grades up to 5% Sn. Recovered grades were reported at 1.3% to 1.4% Sn in 1904 but the base metal sulphides made treatment difficult and at that time were of no commercial value.

1.3 Exploration Rationale

The tenement was acquired to test the potential for development of open pit mines to exploit the remaining tin and tungsten resources at the old Aberfoyle, Storeys Creek and Royal George mines. Predictions of sustained growth in tin and tungsten demand and prices coming off historical lows underlay the acquisition of the project. Exploration was not initially a priority but has

subsequently become more of a focus, particularly in light of strong demand and pricing for tungsten. EL27/2004 contains one of the most significant tungsten-mineralised areas in Tasmania.

2.0 REVIEW OF PREVIOUS WORK

2.1 Historic mining and exploration before current tenement

2.1.1 Aberfoyle-Lutwyche Mine area exploration and mining

Low grade tin bearing veins exposed at the surface at Aberfoyle were discovered in 1916 but little work took place until 1926 when a prospecting syndicate was formed to investigate the veins at depth. Aberfoyle Tin NL took over late in 1926 and sank two shafts. One was vertical to a depth of 18m and the other was an underlay shaft following a 0.5m thick vein down to the 18m level.

In 1928, surface exploration was abandoned and an adit was driven from the west bank of the Aberfoyle Rivulet. It was designed to intersect the tin bearing veins 56m below the surface workings. This adit was driven for 320m and exposed a group of veins between 274m and 318m. Although modest in size they encouraged further development and production from the mine commenced in 1931 and expanded from 1934 when the main shaft was sunk to 70m and No. 2 Level opened up.

Following extensive working, the Aberfoyle and Storey's Creek Mines were sold to Rossarden Mines Ltd in May 1981. By the time the Aberfoyle Mine closed in 1982 the Spiers (or Main) Shaft was 420m deep with fourteen levels spaced 30-35m apart. This shaft entered an aplite cupola at a depth of 318m. Total production is recorded as 2.1Mt at 0.91% tin (Sn), 0.28% tungsten oxide (WO_3).

The Lutwyche mineralisation is located in an area containing tin veining to the northeast of Aberfoyle and was estimated to have produced about a tonne of tin concentrate. It was accessed by horizontal development from the No.13 Level of the Spiers Shaft at the Aberfoyle Mine. Before closure in 1982 a shaft was raise bored to surface but it was probably never fully commissioned.

Most of the exploration at Aberfoyle was concentrated on the mining leases and not reported on in detail. Exploration Licence EL28/1978 was originally granted to Aberfoyle Exploration Pty Ltd in April 1979 and passed to Rossarden Mines Ltd when they purchased the mine in 1981. The exploration licence was surrendered in 1982 and the work undertaken reported in Summons 1983.

In 1989, based on underground sampling, other old Aberfoyle records, and limited drill hole data, Juka Mine Management (Juka) made some estimates of potential mineralisation in open pits to depths of 70m (No.2 Level), 110m (No.4 Level), and 150m (No. 5 Level) covering the main Aberfoyle lodes. This work was commissioned by Stacpoole Enterprises Pty Ltd. (Ref. Roberts & Teh 1989 also McGushin & Keyes 1980). The database for this study was insufficient to establish resources but formed the basis for planning additional work. The study was based on the estimation of the quartz content of the mineralised zone which previous work on the mine had shown was closely related to the tin grade. This enables workable estimation of the tin content of low grade mineralisation by visual assessment of the quartz content with which the cassiterite is usually associated.

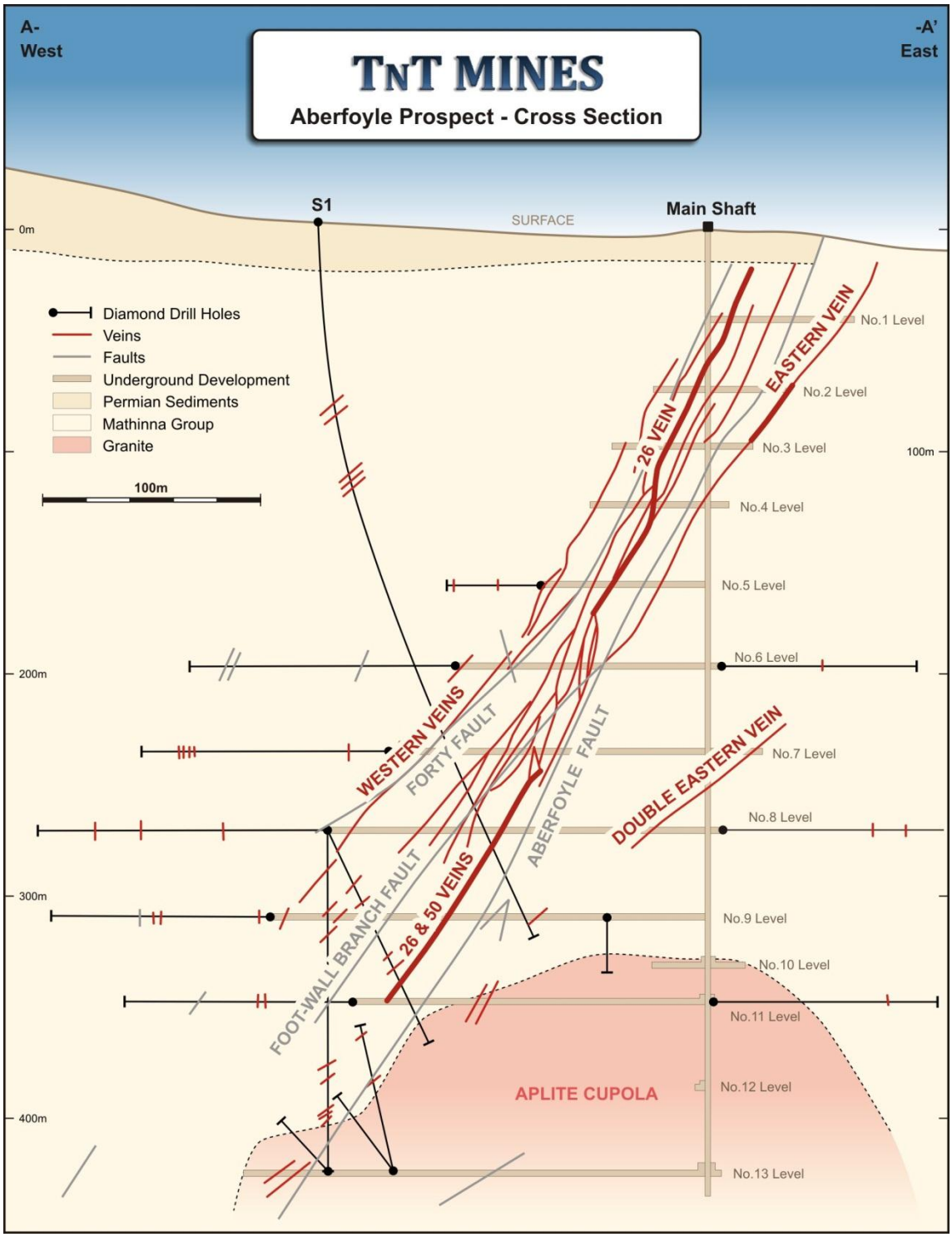

Figure 5: Cross section of Aberfoyle Mine

At Aberfoyle, Minemakers estimated that a proposed pit to 110m was a possible option and that the exploration target was a body of mineralisation between 4Mt and 5Mt and that target grades of 0.15% to 0.25% Sn and 0.02% to 0.03% WO_3 may be achievable. Possible open pit outlines are illustrated in Figures 9 and 10. Further drilling is required to provide more data before feasibility studies can be carried out.

2.1.2 Storeys Creek area exploration and mining

Alluvial cassiterite and mineralised veins were discovered at Gipps Creek, 6.5km to the west, in 1872 and soon after alluvial cassiterite was reported at Storey's Creek. The veins at Storey's Creek were worked for tin from 1891 until 1900 when tungsten became marketable. The mining was by small parties until 1913 when the Storey's Creek Tin Mining Syndicate took over the mine. This syndicate operated until 1928 when it became unprofitable. During this period up to 12,000t/y of ore were raised grading between 0.75% and 1.75% tin and 0.75% to 2.0% tungsten. After a period of successful tributing the mine was taken over in 1937 by the Storey's Creek Tin Mining Company.

Once the tungsten mineral wolframite became marketable at the turn of the century the production of tungsten was greater than the production of tin. Total estimated production is 1.1Mt of ore at 1.09% tungsten oxide (WO_3) and 0.18% tin (Sn). Up until 1962 recoveries were estimated at 6,300t of tungsten oxide and 1,118t of tin metal. Mining was being phased out in 1979 with the extraction of pillars and the mine was closed in 1982.

The Aberfoyle Mine also operated until 1982 and Storey's Creek and other prospects in the area were held by Aberfoyle Tin NL at that time. Some minor exploration of the prospects was carried out by it but the Storey's Creek Mine was not identified as an exploration target.

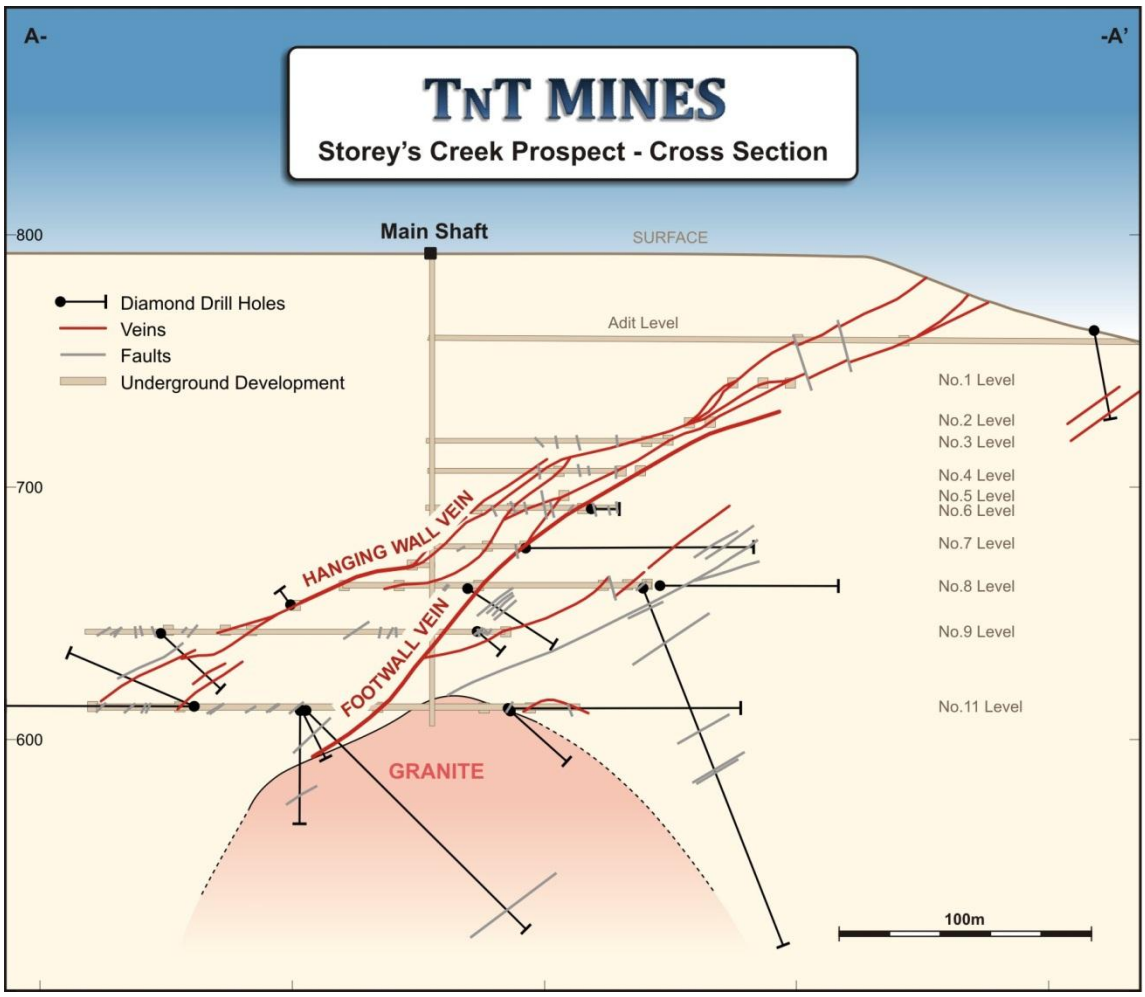

Figure 6: Cross section of Storeys Creek Mine

2.1.3 Royal George area exploration and mining

The mineralisation was discovered in the 1880s and was initially grouped with a number of mineralised outcrops in the St Paul's River valley (Figure 4). Only minor production took place until the Royal George Mine operated from 1911 until 1922 with production of 170,000t at 0.65% Sn containing 1,105t of tin metal. The ore was mainly mined from two underground levels and to the surface with open stopes (Figure 7). Available data on drill holes is presented in Table 1. The question marks against the tin grades indicate that there was no remaining sample for CRA to re-assay at a later date. Problems with assaying for tin present as cassiterite do occur fairly frequently and CRA was checking for poor assaying. These drill hole intersections and subsequent intersections are plotted on the long section of the mine presented on Figure 8.

In 1965 the Cornwall Coal Company (CCC) pegged several Mineral Leases (21 year tenure) and conducted exploration until 1971 with the assistance of the Tasmanian Mines Department. From August 1966 to February 1967 Government Geologist G. Urquhart carried out surface and underground mapping and completed logging and sampling of DC holes 66CC.1 to 66CC.7 The programme was then taken over by A.J. Noldart who logged and sampled holes 66CC.8 and 66CC9 and supervised the drilling, logging, and sampling, of holes 66CC.9, 67CC.11 to 13. He also deepened the inclined shaft to the No.3 and No.4 Levels where some channel sampling was carried out. Most of this drilling was EX size (21.5mm core diameter) and this small core size is reported to have led to recovery and sampling problems and anyway is not considered to be a suitable size for this style of mineralisation by Featherstone. Two deeper levels (No.3 & No.4 Levels) were later established in 1968 by the Cornwall Coal Co. from an inclined shaft to a maximum depth of 80m below surface.

Royal George Drilling

Hole No.	Comment	EHO	Easting MGA(m)	Northing MGA(m)	Elevation (m)	From (m)	To (m)	Interval (m)	Grade % Tin
55/1	-43.5º to 045º	112.8			312.7	90.2	98.5	8.3	0.64 ?
BHP57/1	AX -60º to 045º	187.2	574013	5369585	308.2	147.1	155.8	8.7	0.29
					Inc.	147.1	153.9	6.8	0.33
BHP57/2	AX -60º to 045º	190.1	574013	5369585	306.0	135.3	140.5	5.2	0.21 ?
					&	182.9	184.7	1.8	0.32
BHP57/3	AX -60º to 045º	155.5	574013	5390215	309.1	139.0	144.5	5.5	0.17
					Inc.	139.0	142.0	3.0	0.29
66CC.1	EX -60º to 57º	43.8	573525	5368655	273.5	19.4	26.2	6.8	0.14
66CC.2	EX U/G -0º to 240º	26.8	573583	5368565	264.6	-	-	-	-
66CC.3	EX U/G -42º to 221º	28.9	573600	5368575	263.4	18.3	25.9	7.6	0.29
66CC.4	EX -60º to 057º	38.1	573536	5368624	278.3	13.7	18.3	4.6	0.25
66CC.5	EX -61º to 059º	81.7	573691	5368311	294	69.8	73.3	3.5	0.30
66CC.6	EX -60.5º to 036º	94.5	563647	5368358	295.6	80.2	84.5	4.3	0.18
					&	88.5	92.3	3.8	0.21
66CC.7	EX -60º to 049º	109.6	573615	5368408	298.2	87.4	102.1	14.7	0.39
					Inc.	88.7	99.4	10.7	0.46
66CC.8	EX -60º to 059º	109.7	573585	5368461	299.9	83.1	88.8	5.7	0.24
					&	93.8	106.3	12.5	0.38
66CC.9	EX -60º to 060º	109.4	573554	5368513	295.2	79.9	104.3	24.4	0.41
					Inc.	82.0	97.5	15.5	0.49
67CC.10	EX -60º to 060º	106.7	573539	5368539	291	84.1	88.4	4.27	0.40
					&	98.1	101.2	3.1	0.19
67CC.11	EX -60º to 058.5º	135	573478	5368587	278.4	111.9	117.3	5.3	0.33
67CC.12	EX -60º to 059º	155.4	573500	5368546	284.8	121.6	126.8	5.2	0.30
					&	131.9	135.3	3.5	0.21
67CC.13	EX -60º to 060º	153.9	573557	5368450	294.1	119.8	126.7	6.9	0.22
					Inc.	124.7	126.7	2.0	0.49
					&	132.9	138.2	5.3	0.52
79RGC.1	NQ -58º to 059º	266.4	573472	5368461	283	221	223	2	0.11
89S1	HQ -50º to 057º	127.4	573532	5368544	288.1	73.4	75.8	2.4	0.47
89S2	HQ -52º to 056º	127.4	573573	5368484	296.8	78.4	89.9	11.5	0.46
89S3	HQ -53º to 060º	120.0	563613	5368412	297.9	77.5	85.7	8.2	0.59
89S4	HQ -56º to 058º	148.5	573654	5368344	294.1	85.3	94.1	8.8	0.12

Table 1: Royal George – diamond drilling results

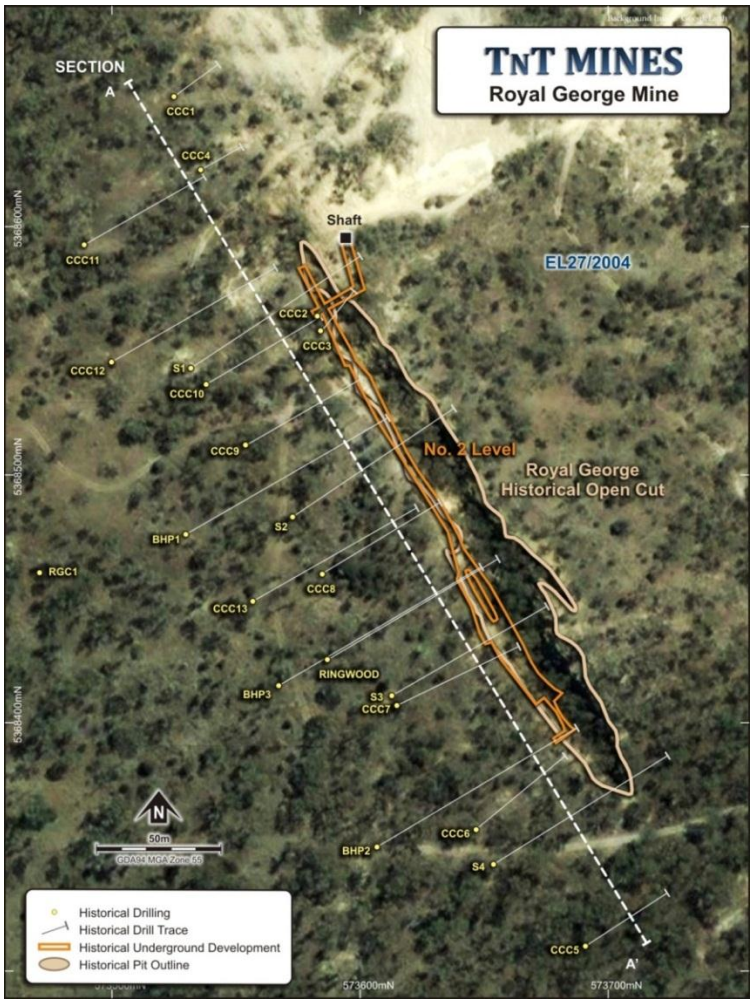

Figure 7: Plan view of Royal George Mine and drilling

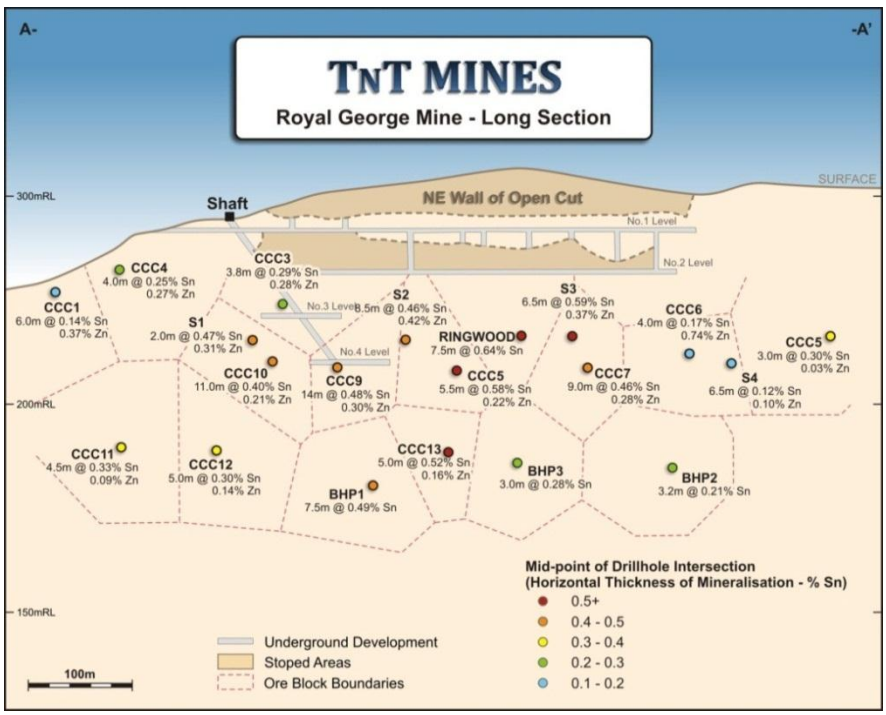

Figure 8: Long section of Royal George Mine with ore blocks and drill intercepts

In 1977, CRAE became interested in the deposit and entered into a joint venture with CCC in 1979 over the Royal George MLs and the surrounding EL7/1978. During 1979, CRAE work comprised re-sampling and re-assaying of all old drill core and sample pulps, checking and correcting old data, compiling new data including a 3D model, and drilling of one hole to test the mineralisation at depth. Metallurgical testing of a 1,200kg bulk sample from the No.4 Level was also carried out. Re-assaying gave tin values 10-50% higher than the original Mines Dept. assays. Assaying for a number of other elements was undertaken but only silver, zinc, and copper, were considered significant. Based on the CRAE data in 1979 a feasible exploration target is an estimate of a body of mineralisation between 0.5-0.7Mt at between 0.35-0.45% tin.

The CRAE work highlighted problems with the estimation of the tin grades which is considered by Featherstone to be primarily due to the small size of drill core resulting in small samples. CRAE also considered that the core sizes were inadequate and their work suggested that good sampling could increase grades.

In 1988 Spectrum Resources Australia Pty Ltd (Spectrum) was granted EL5/1988 of 4km^2 and subsequently EL27/1989 of 5km^2 over the Royal George workings. In 1989, Spectrum drilled four DC holes to confirm the presence of mineralisation below the stoped out areas of the mine. Acknowledging previous problems due to small cores Spectrum drilled four HQ sized holes (63.5mm diameter core) through the mineralised zones during 1989 (89S1-4). Spectrum considered the results did support previous estimates of the mineralisation but the tin price was too low at that time to warrant mounting an operation.

2.2 Exploration during current tenement

2.2.1 Aberfoyle-Lutwyche

Under an MOU, Minemakers joined Austria's Wolfram Bergbau (WB) in an appraisal of the tungsten potential of all of the Company's Tasmanian tungsten projects. Subject to satisfactory tungsten grades being obtained from the Aberfoyle and Storey's Creek drill programmes, Wolfram Bergbau started to carry out initial metallurgical test-work programmes at its Mittersill laboratory in Austria on tailings from both the Storey's Creek and Aberfoyle Mines commencing in February 2007. At the time the MOU was terminated the metallurgist who was conducting the investigation of the Tasmanian tailings moved to another company. Unfortunately, no useful results had been obtained when the studies were abandoned.

An RC drilling programme of 13 holes for a total of 1,243m was completed at Aberfoyle on 29 March 2007. This programme was conducted by Minemakers with WB providing A$120,000 towards the cost of the drilling and assaying at Aberfoyle. These holes are shown on Figure 9. Wolfram Bergbau pulled out of the MOU with Minemakers in March 2008.

A second RC drilling programme at Aberfoyle of 8 holes for a total of 1,223m was completed in May 2009. These holes were along strike from the previously drilled RC holes extending 300m to the north and 400m to the south of the earlier drilling programme. Most of these holes intersected modest tin bearing veins so the full extent of the mineralisation has not yet been defined. These holes are plotted on Figure 9.

The results of the assaying and analysis of the samples from these drill holes were published in Minemakers' Annual Report for 2009 on Exploration Licence EL27/2004 (Russell Fulton et al 2009). Although no paired holes were drilled to compare RC and DC drill results at Aberfoyle, the author considered it worthwhile to plot a cross section through a pair of RC holes to enable the pattern of the veining to be visually revealed (Figure 10). The results confirm that the tin mineralisation is very nuggetty in character which indicates that sample sizes should be as large as practicable and the density of drilling and sampling needs to be higher than that applied when sampling mineralisation with a more even tenor.

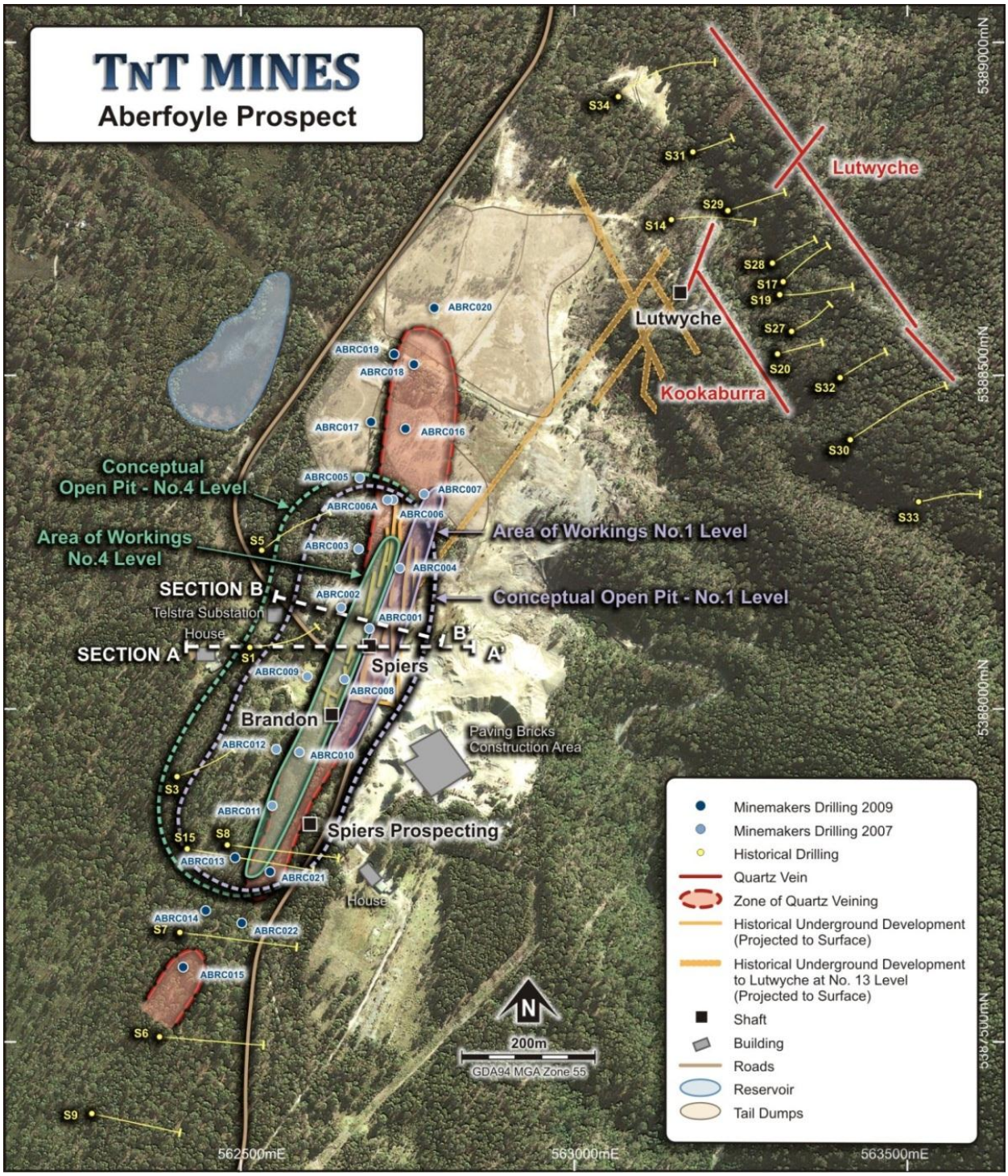

Figure 9: Plan view of Aberfoyle-Lutwyche with drilling and potential pit outlines

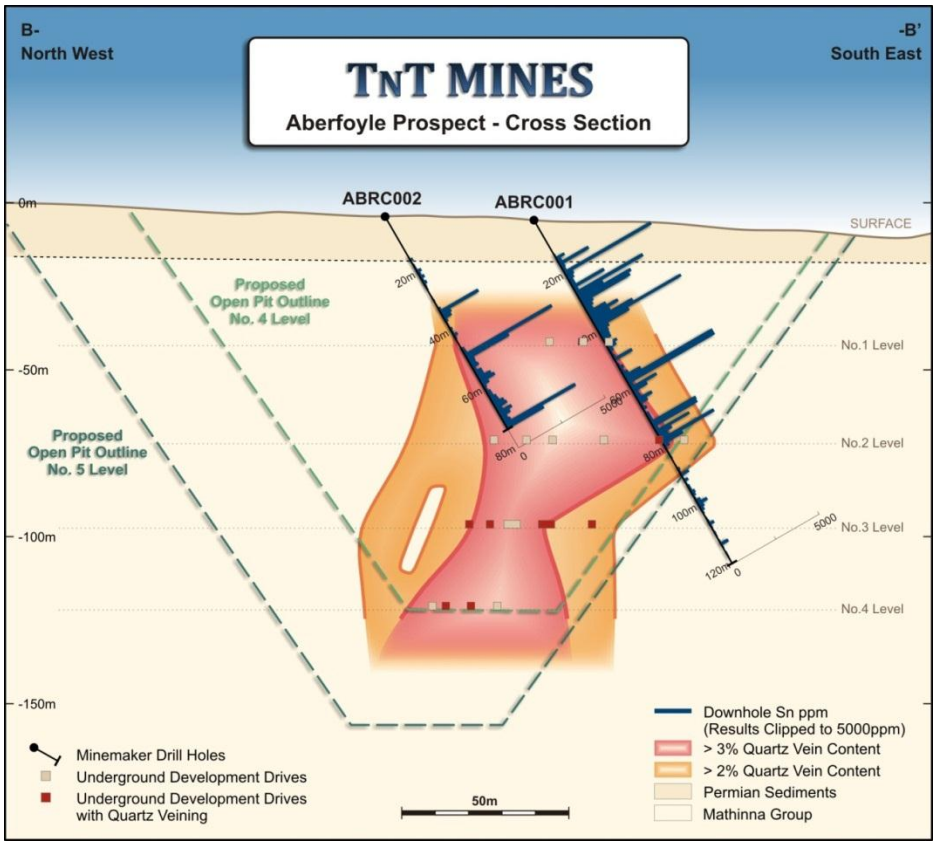

Figure 10: Aberfoyle cross section with pit outline and recent drill intercepts

2.2.2 Storeys Creek

In July and August 2007 a 17 hole RC airblast percussion drilling programme for a total of 2,027m was undertaken at Storey's Creek (Figure 11). This programme was conducted by Minemakers and the drilling and assaying was equally funded by them and Wolfram Bergbau (WB) with whom Minemakers had a joint working relationship set out in a memorandum of understanding (MOU). This MOU operated from February 2007 until March 2008 and covered work on mineralisation within EL27/2004. WB were interested in the production of tungsten and undertook work, in their laboratories in Austria, on the processing of some of tailings from both the Storey's Creek and Aberfoyle mines. At the time the MOU was terminated, the metallurgist who was conducting the investigation of the Tasmanian tailings moved to another company. Unfortunately no useful results had been obtained when the studies were abandoned.

Previous drilling at Storey's Creek employed diamond core (DC) drilling and 18 holes with EX core (21.5mm in diameter) are stored at MRT. AX core (32.5mm in diameter) was also popular. The drill core is usually sampled for assaying by cutting it in half and Featherstone consider that the size of the sample produced is not large enough to give reliable grades for this style of mineralisation. RC drilling with holes typically 110mm to 130mm in diameter produces a considerably larger sample and usually gives more reliable results but the nuggetty distribution of mineralisation can still cause problems. RC holes are also cheaper and quicker to drill so more holes can be drilled for the same budget giving a better assessment.

Analysis of the results of RC drilling indicates that the tungsten mineralisation tends to occur in a limited number of veins within broader bands of mineralisation. As Storey's Creek was a tungsten mine which also produced tin, the miners selectively mined the tungsten bearing zones leaving some tin and other base metals in the ground.

Between 30 January and 15 February 2009 two diamond core (DC) holes were drilled at Storey's Creek. Hole SCDC001 (EOH 149.5m) was drilled parallel to RC hole SCRC006 and was PG3 size

(83.1mm in diameter) to 58.4m and HQ3 size (61.1mm in diameter) to EOH. Hole SCDC002 (EOH 100.7m) was drilled parallel to RC hole SCRC034 and was PQ3 size (83.1mm diameter) to EOH. Core recovery was excellent throughout and both holes intercepted the anticipated zones of tungsten, tin and base metal mineralisation. These holes were drilled to compare results from DC and RC drilling. The drill core from this drilling was placed into storage at Avoca and a close examination of the core, including cutting and assaying, was carried out during the summer months of 2009-2010.

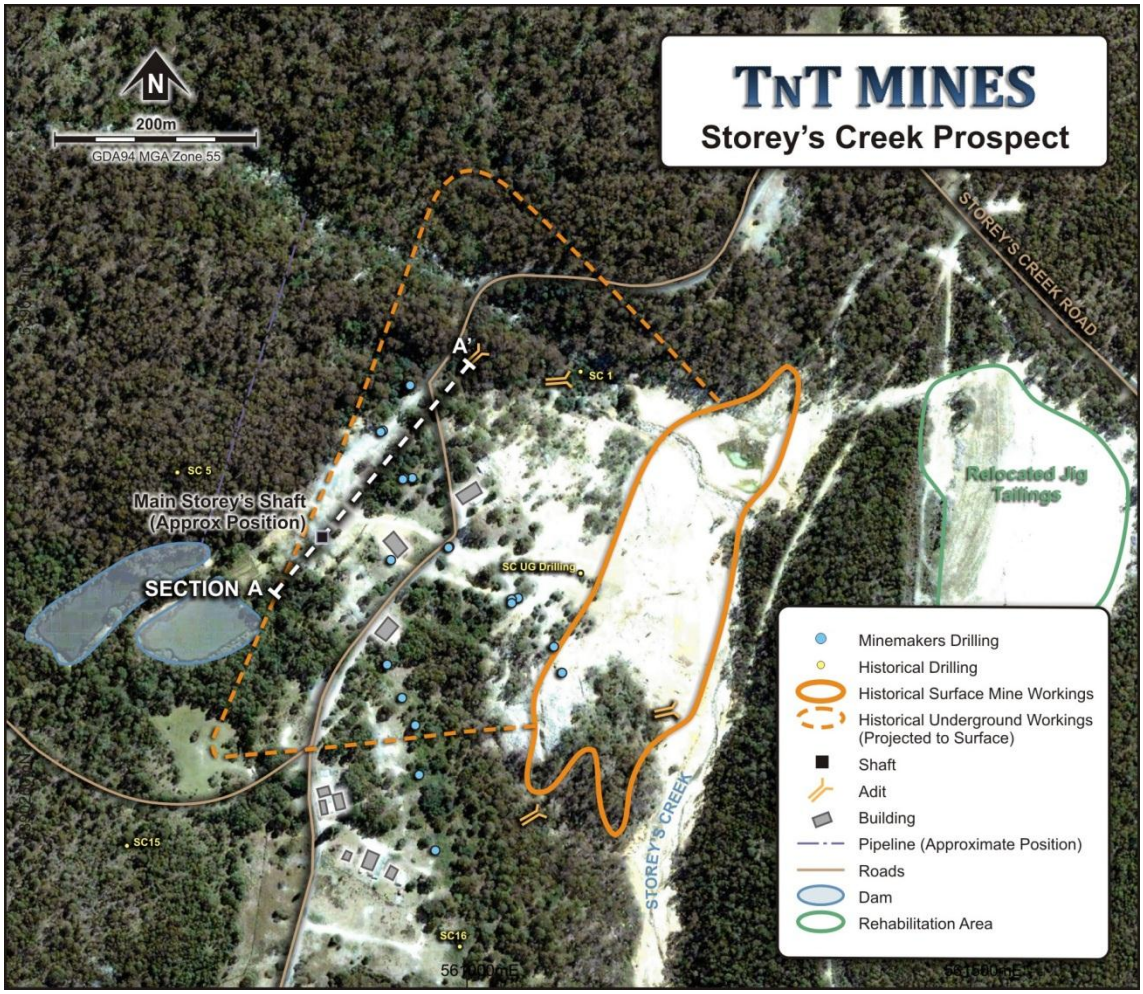

Figure 11: Plan view of Storeys Creek with recent drill collar locations

Assaying and Analysis

Several different techniques were employed by Minemakers in analysing samples.
The analytical schemes used were:
Pressed powder pill analysis by XRF for Sn & W.
Lithium metaborate fusion and analysis of glass by XRF for Sn >500 ppm, W >500 ppm
Aqua regia digest and analysis by ICP-AES for Ag, Al, As, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Ga, Hg, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sr, Th, Ti, Tl, U, V, W, Zn.
Four certified reference standards were included in the submitted samples to aid quality control of assaying/analysis.

Some discrepancies appeared to be present in the results. Most of these have been resolved with a better understanding of the geology and the remainder are anticipated to be satisfactorily explained. Minemakers planned to mount another drilling programme to further improve the data on the remaining mineralisation in this deposit.

Review of the Assay Data from the Twin Hole Drilling

At Storey's Creek a diamond core hole and a percussion air blast hole were drilled side by side with the collars about seven metres apart. Assay values for the metals tungsten, tin, zinc, copper, and lead, were plotted as a histogram on the sides of the holes drawn on a cross section of them. These histograms provide a clear indication of the degree of correlation between the two holes of the grades of each of the metals in particular veins.

The tungsten mineralisation is mainly restricted to about four veins and the veins correlate very well between the two holes. The tungsten mineralisation is typically accompanied by tin but there are a number of tin veins without any tungsten.

The tin mineralised veins are more numerous than the tungsten. Correlation of veins between the holes is good for tin and tungsten. Better tin grades tend to occur with better tungsten grades. The higher tin grades in the diamond core drill hole may indicate a problem with the airblast technique but the tungsten, zinc and lead results do not show a bias to the same extent between the two holes. It is possible that dilution of the mineralisation could take place when an RC hole is intersecting veins and further drilling of this mineralisation should attempt to determine if this is taking place.

The copper mineralisation is fairly sparse and may show some correlation with tungsten but more study is required. Grades of around 100ppm Zn occur throughout the holes and there appears to be some association with copper. Low grade lead mineralisation is present throughout the two holes but higher values do not correlate well between holes or with other metals.

The mineralisation at Storey's Creek and Aberfoyle occurs in rocks overlying cupolas on the surface of the underlying granite pluton. It is interpreted that this is a genetically related feature of the mineralisation and that the identification of other cupolas on the surface of the granite is a very worthwhile exploration technique. This exploration model is reported on in the section of this report on the Aberfoyle Mine.

2.3.3 Gravity Survey Analysis for the Aplite Cupola Geological Model

The Rossarden District in the northern portion of EL27/2004 contains two significant deposits and numerous small shows and it is therefore considered that this area has potential for hosting economically sized deposits that do not outcrop on the present land surface and therefore have not been discovered. Minemakers consequently developed an exploration strategy that will hopefully identify targets for more detailed geophysical work or for drilling.

Geological investigations of the tin-tungsten mineral deposits at Storeys Creek and Aberfoyle/Lutwyche suggest that the deposits are genetically related to the Devonian age Ben Lomond Granite pluton that underlies much of the area. The proposed geological model is of vein deposits formed above aplite cupolas developed on the surface of the granite pluton. This geological model is illustrated by the cross section of the Aberfoyle Mine in Figure 5. To explore for as yet undiscovered deposits it is therefore necessary to locate cupolas of aplite at depth below the surface. Since aplite rock is typically less dense than the adjoining rocks a sensitive gravity survey may be able to reveal the location of cupolas.

Gravity and seismic surveys over parts of the area were carried out by Cominco in 1971-2 (MRT Ref.72_0857). Further gravity surveying was undertaken by Mineral Resources of Tasmania 1974 (MRT Ref. UR1974_14). The gravity data are available from MRT.

Minemakers therefore commissioned GroundProbe Geophysics Pty Ltd (GroundProbe, an associate of Geoforce Pty Ltd) to undertake modelling of the available gravity data over the Aberfoyle – Storey's Creek area. GroundProbe produced a report by Kate Godber in August 2010.

The modelling interpreted by GroundProbe suggests that the topography of the granite pluton is much more complicated than expected. This could be due to variations in the gravity being caused by other geological features than cupolas. GroundProbe have identified five anomalies that they consider worthy of further investigation. They are referred to as Storey's s Creek SE, Aberfoyle SE, Golf Course West, Eastern Hill North, and Anomaly Nine. The Golf Course West anomaly

requires additional gravity data to improve the reliability of the modelling. The anomalies at Storey's Creek and Aberfoyle are taken care of by additional work around these old mines. This leaves three anomalies recommended for further work.

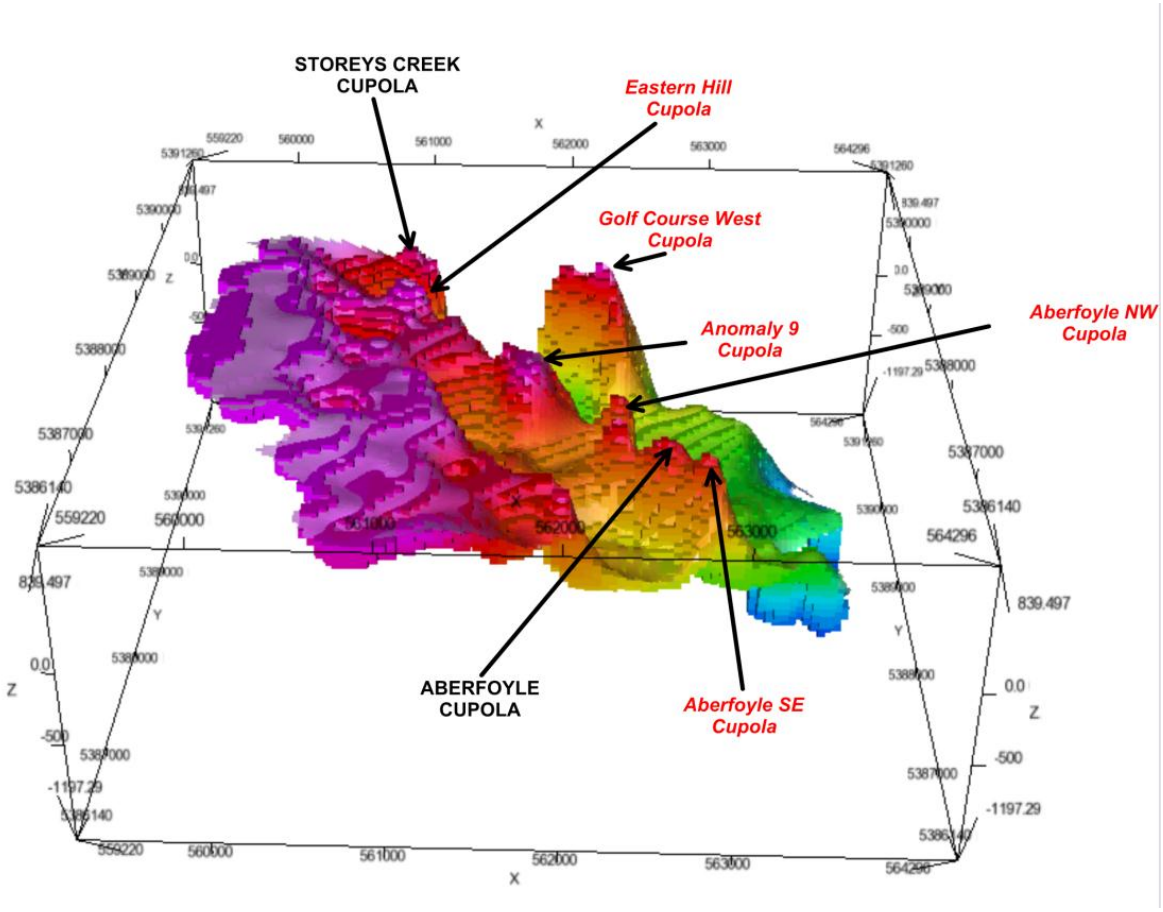

Figure 12: 3D sub-surface granite modelling from gravity data

2.3.4 3D modelling project

In 2011, a significant effort was placed into continuing the work of data entry and digitizing of old plans and sections. There is a plethora of pre-metric data and four separate mine grids associated with the Storeys Creek, Aberfoyle, Lutwyche and other minor workings. TNT Mines employed a person to digitize plans and enter historical drill data into a database, particularly in respect of the Lutwyche prospect. In particular, the conversion of old grids to MGA was a very time consuming.

3.0 WORK COMPLETED DURING THE REPORTING PERIOD

3.1 Geochemical work

3.1.1 Gipps Creek soil sampling

A soil sampling program was carried out in the Gipps Creek area between 04/06/2012 and 03/07/2012. A total of 651 "B/C" horizon soil samples were collected on a two part 100x25m E-W grid. The soil sample locations are shown in Figure 13 and details are to found in Appendix 1. The major grid was designed to cover the area of old tungsten prospects adjacent to Gipps Creek and the smaller grid was designed to test tungsten prospectivity at the Triabunna tungsten prospect to along strike to the south. The soil samples have not been submitted for analysis yet and are stored at TNT Mines' Avoca office.

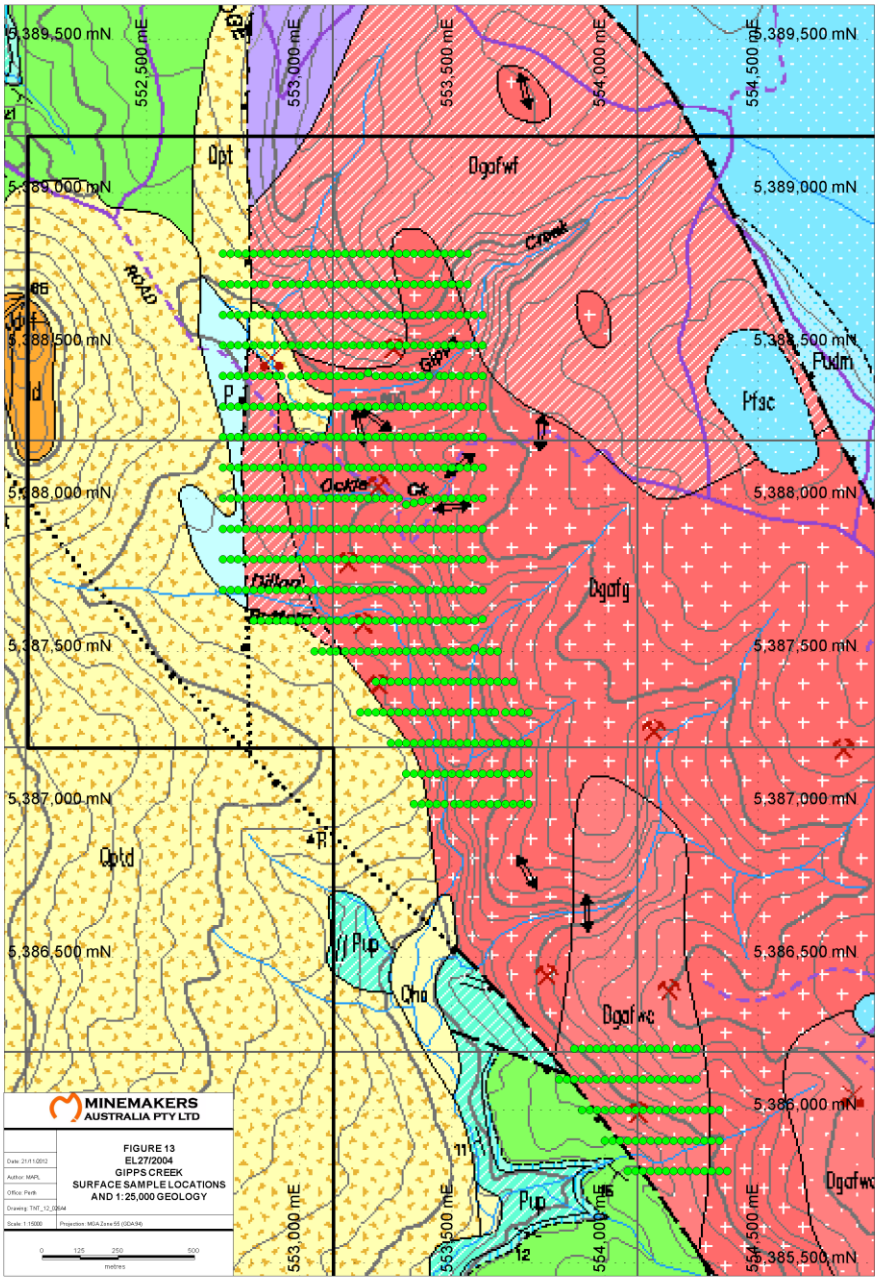

Figure 13: Gipps Creek soil locations

3.1.2 Cupola Project soil sampling

A soil sampling program was carried out in the area between Storeys Creek and Rossarden area between 25/07/2012 and 13/08/2012. A total of 179 “B” horizon soil samples were collected on a 200x200m grid. The project was put on hold with about 50% of the sampling work completed. The soil sample locations are shown in Figure 14 and details are to found in Appendix 1. The Cupola Project is designed to test for the presence of mineralising apophyses or cupolas rising from the Ben Lomond Granite and above which tin/tungsten deposits may have formed, similarly in nature to the Storeys Creek or Aberfoyle deposits. The soil samples have not been submitted for analysis yet and are stored at TNT Mines’ Avoca office.

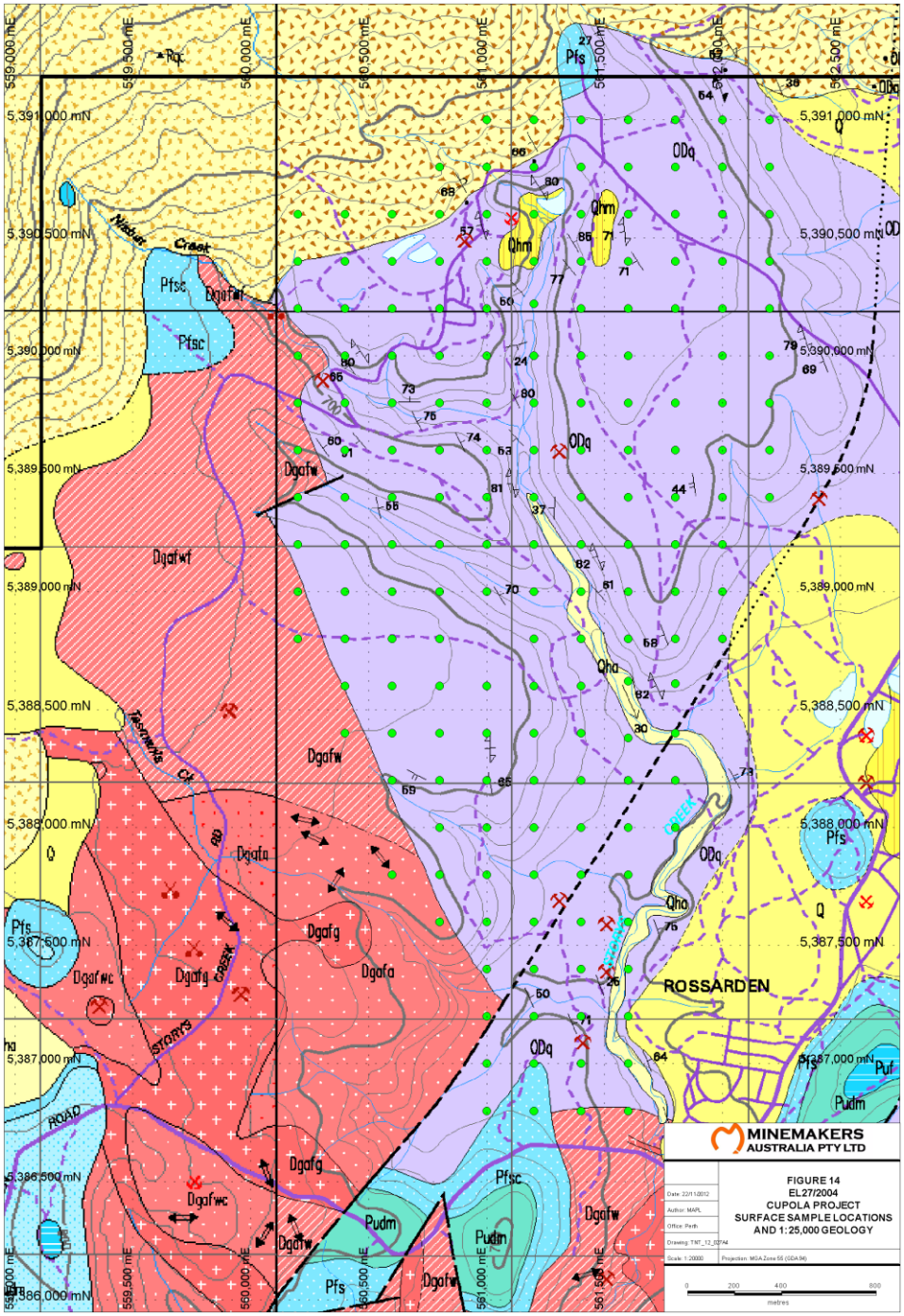

Figure 14: Cupola Project soil locations

3.2 Geophysical work

3.2.1 Gipps Creek ground magnetics

A trial ground magnetics survey was carried out by Modern Mag, mobilising out of Horsham in Victoria, between the 8th and 10th May. The survey was carried out without cut lines, using GPS navigation. The forest was reasonably open except in the gullies were thick wet vegetation was encountered. The terrain was generally moderate although there were some quite rugged sections. Weather conditions were cold but generally dry. The survey was run in an E-W orientation and 16.4 line kilometres of data were acquired on an approximately 1000x1000m grid (Figure 15). A full logistical and operational report is appended as Appendix 2.

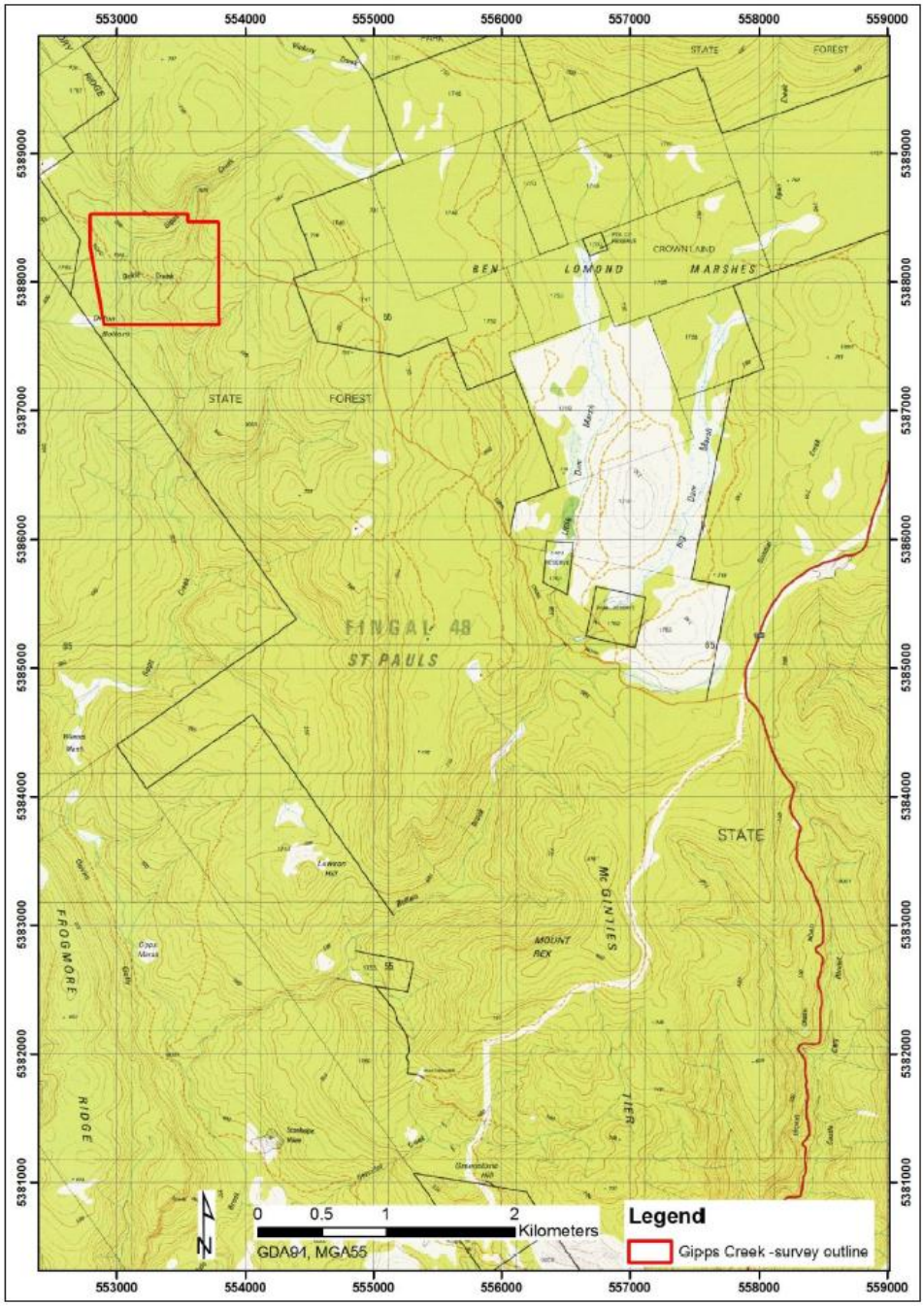

Figure 15: Location of Gipps Creek ground magnetics survey

3.2 3D modelling - Lutwyche

Basic drill hole and underground development data for the Lutwyche deposit was digitized. Approximately 200 assay data records from drilling have been entered. A considerable amount of historical grade estimation was made visually along development drives and this data has yet to be digitized. Lithology and structure logs have not been completely digitized yet.

4.0 DISCUSSION OF RESULTS

4.1 Geochemical work

4.1.1 Gipps Creek soil sampling

The Gipps Creek area is the location of multiple historical tungsten workings that have not been subject to significant modern exploration. The exploration target is large (5-10Mt), low-grade greisen amenable to open pit mining. Four narrow diameter holes were drilled in the 1970s and intersected low grade greisen mineralisation but the recommended follow up never took place.

The soil program was designed to test for the presence of an area of broad low grade mineralisation that might be amenable to open pit extraction. The survey uncovered numerous prospecting trenches and adits and a large area of alluvial within Gipps Creek.

Due to a lack of funds none of the soil samples collected has been sent for analysis yet, therefore there are no analytical results to discuss.

4.1.2 Cupola Project soil sampling

The purpose of this project is to look for subtle geochemical signatures associated with mineralising apophyses associated with the Ben Lomond Granite. Samples are planned to be analysed to low detection limits by ICP-MS for a suite of elements. This work takes the place of a previously proposed gravity survey after advice that the effect of terrain corrections and low density contrast between granite intrusives and sediments would mask the subtle gravity signature of any underlying apophyses or cupolas. Previous drilling based on reinterpretation of old gravity data was unsuccessful.

Due to a lack of funds none of the soil samples collected has been sent for analysis yet, therefore there are no analytical results to discuss.

4.2 Geophysical work

3.2.1 Gipps Creek ground magnetics

The ground magnetics survey was run as a trial to take advantage of a ground magnetics crew being in Tasmanian to carry out a survey on one of TNT Mines other projects. The data is intended to be used in conjunction with the geochemical data obtained from soil sampling at Gipps Creek. The survey was run without any cut lines and the data are quite noisy. The noise stems from the sampler having to traverse rough ground, clamber over logs and climb down small scarps. Any future survey would benefit from not using a continuous sampling magnetometer but rather taking discrete readings every few metres.

The magnetic data has not been processed to any great extent at this stage as the geochemical data has not yet been obtained. TMI image is presented below in Figure 16.

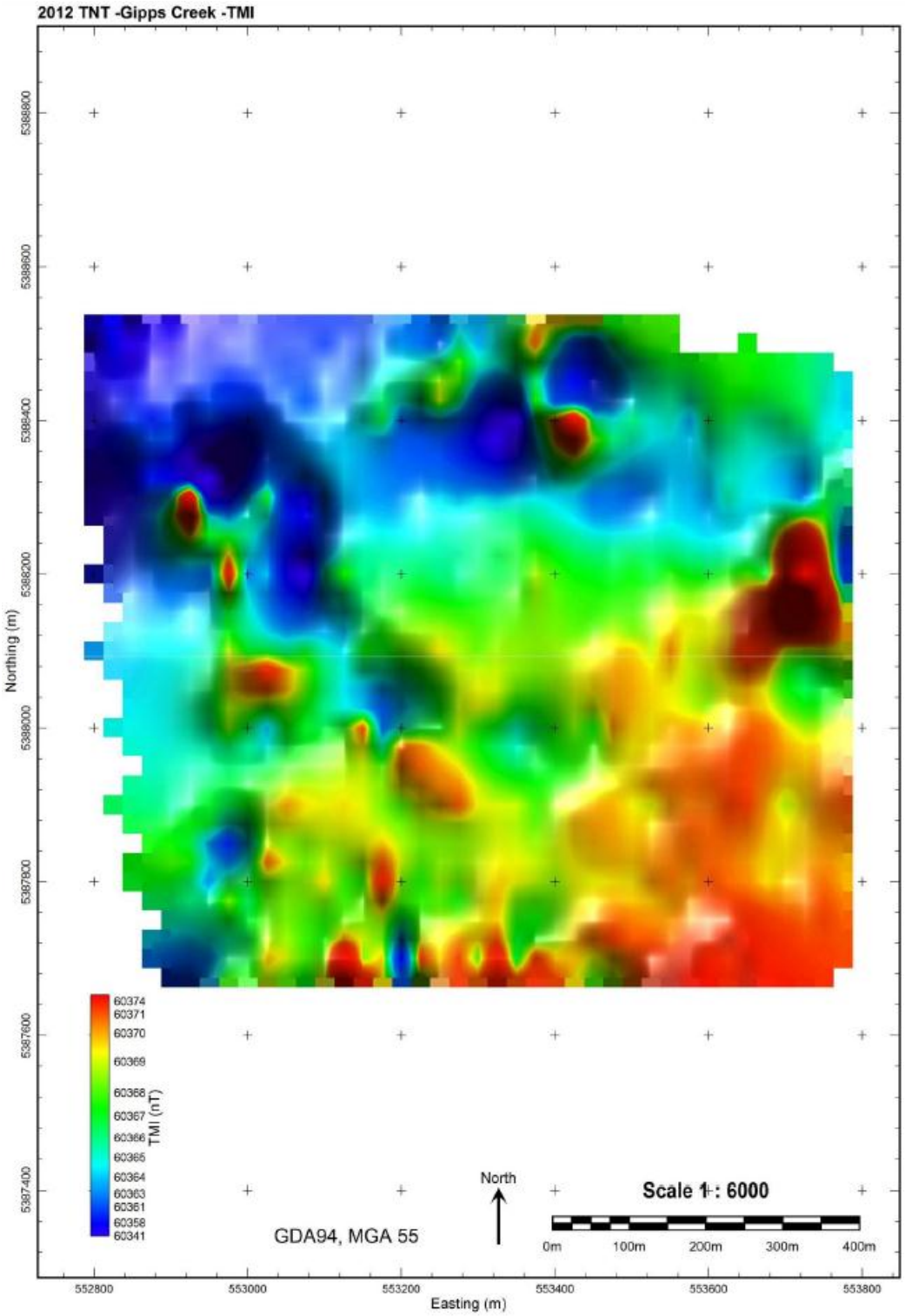

Figure 16: TMI image – Gipps Creek ground magnetics survey

4.3 3D modelling - Lutwyche

The Lutwyche vein system is an essentially unmined deposit (1.1Mt @ 0.45%WO_3 and 0.45% Sn), similar in size to the Storeys Creek mine (1.1Mt @ 1.09%WO_3 and 0.20% Sn) but at lower grades. Delineation of the deposit is incomplete however and the system may be larger with higher grades.

The digitization of data is incomplete there is sufficient data to start to generate a model. Some screen shots of modelling to data are shown below.

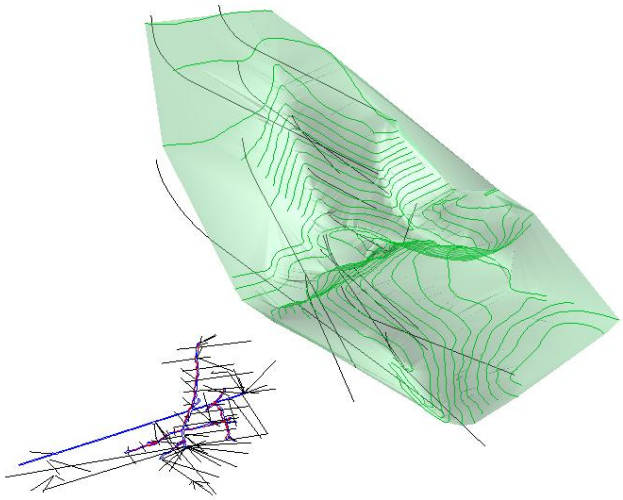

Figure 17: Lutwyche surface and underground drill traces – oblique view to NW

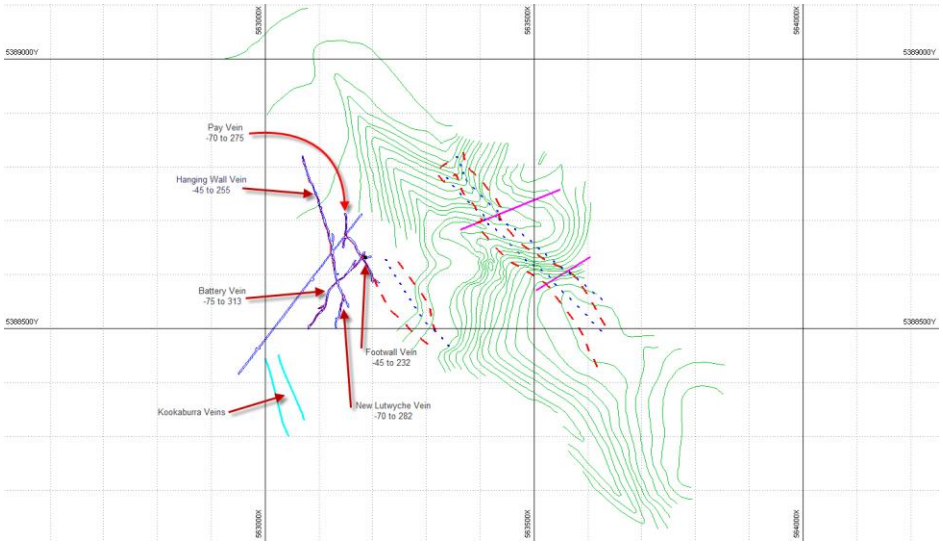

Figure 18: Lutwyche underground development and surface veining – plan view

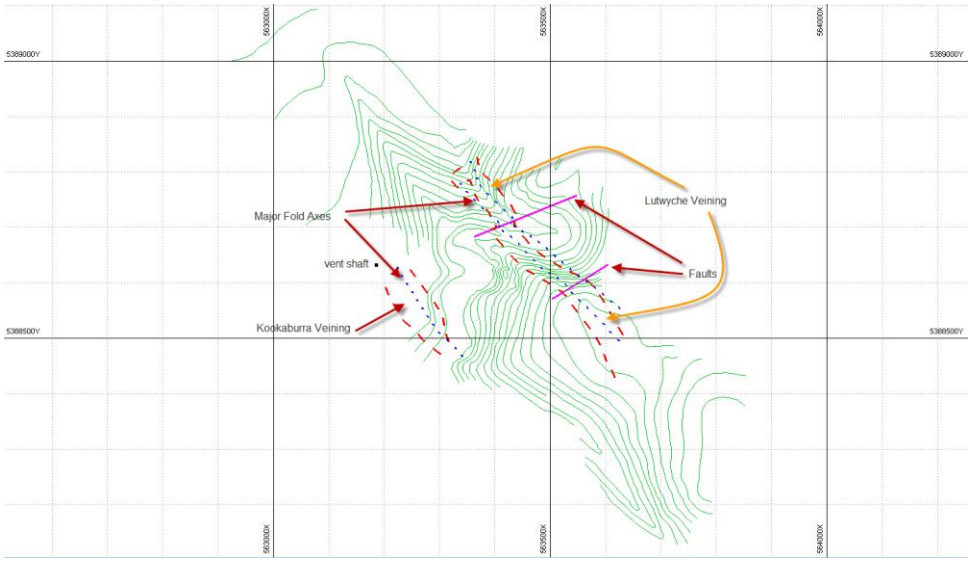

Figure 19: Lutwyche surface veining – plan view

5.0 CONCLUSIONS AND FUTURE WORK

TNT Mines work program for the reporting year was affected by funding problems and the proposed exploration programs were not completed as planned. TNT Mines has applied to surrender 133 km^2 of the tenement and reduce the size to 79 km^2.

In anticipation of suitable funding being secured, TNT Mines would complete the proposed programs and undertake further work as follows:

- Cupola Project
    - Complete soil sampling to look for subtle geochemical signatures associated with mineralising apophyses associated with the Ben Lomond Granite.
    - Diamond drilling of targets generated.
- Lutwyche
    - Complete the digitization of Lutwyche data and produce a complete 3D model.
    - Carry out ground magnetics survey over Lutwyche area including along strike in both directions.
    - Carry out shallow RC drilling to test the upper levels of the Lutwyche system.
    - Diamond drilling along strike to increase the resource. Evidence from historical records suggests that the strike length of the mineralised system may be considerably longer.
    - JORC estimate using historical data.
    - Commence a scoping study into the redevelopment of the mine in conjunction with an Aberfoyle open cut.
- Gipps Creek
    - Submit samples for analysis.
    - Analysis of geochemical and geophysical data.
    - Further ground magnetics if warranted.
    - RC drilling of targets.

6.0 ENVIRONMENT

No major ground-disturbing work was carried out in the reporting period. Soil sample holes were filled in following sampling.

7.0 REFERENCES

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APPENDIX 1
Soil sample locations

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10001	0.50	06/06/2012	MGA94Z55	552750	5388800	Howard Armitage	5 attempts due to rocks in soil
Gipps Creek	AB10002	0.55	06/06/2012	MGA94Z55	552775	5388800	Howard Armitage	abundant hydrothermal quartz float
Gipps Creek	AB10003	0.50	06/06/2012	MGA94Z55	552800	5388800	Howard Armitage	nearby trenches running NE/SW
Gipps Creek	AB10004	0.45	06/06/2012	MGA94Z55	552825	5388800	Howard Armitage	water race at 2833mE running NW→SE
Gipps Creek	AB10005	0.40	06/06/2012	MGA94Z55	552850	5388800	Howard Armitage	
Gipps Creek	AB10006	0.50	06/06/2012	MGA94Z55	552875	5388800	Howard Armitage	
Gipps Creek	AB10007	0.50	06/06/2012	MGA94Z55	552900	5388800	Howard Armitage	hand dug due to rock with some organic matter present
Gipps Creek	AB10008	0.20	06/06/2012	MGA94Z55	552925	5388800	Howard Armitage	hand dug due to rock with some organic matter present
Gipps Creek	AB10009	0.25	06/06/2012	MGA94Z55	552950	5388800	Howard Armitage	
Gipps Creek	AB10010	0.30	06/06/2012	MGA94Z55	552975	5388800	Howard Armitage	
Gipps Creek	AB10011	0.45	06/06/2012	MGA94Z55	553000	5388800	Howard Armitage	
Gipps Creek	AB10012	0.40	07/06/2012	MGA94Z55	553025	5388800	Howard Armitage	damp gull with deep organic soil - 22 attempts
Gipps Creek	AB10013	0.60	07/06/2012	MGA94Z55	553050	5388800	Howard Armitage	
Gipps Creek	AB10014	0.60	07/06/2012	MGA94Z55	553075	5388800	Howard Armitage	
Gipps Creek	AB10015	0.40	07/06/2012	MGA94Z55	553100	5388800	Howard Armitage	
Gipps Creek	AB10016	0.40	07/06/2012	MGA94Z55	553125	5388800	Howard Armitage	
Gipps Creek	AB10017	0.40	07/06/2012	MGA94Z55	553150	5388800	Howard Armitage	
Gipps Creek	AB10018	0.20	07/06/2012	MGA94Z55	553175	5388800	Howard Armitage	
Gipps Creek	AB10019	0.50	07/06/2012	MGA94Z55	553200	5388800	Howard Armitage	contains organic matter
Gipps Creek	AB10020	0.20	07/06/2012	MGA94Z55	553225	5388800	Howard Armitage	
Gipps Creek	AB10021	0.40	07/06/2012	MGA94Z55	553250	5388800	Howard Armitage	
Gipps Creek	AB10022	0.45	07/06/2012	MGA94Z55	553275	5388800	Howard Armitage	
Gipps Creek	AB10023	0.50	07/06/2012	MGA94Z55	553300	5388800	Howard Armitage	first good sample
Gipps Creek	AB10024	0.50	07/06/2012	MGA94Z55	553325	5388800	Howard Armitage	
Gipps Creek	AB10025	0.50	07/06/2012	MGA94Z55	553350	5388800	Howard Armitage	
Gipps Creek	AB10026	0.55	07/06/2012	MGA94Z55	553375	5388800	Howard Armitage	
Gipps Creek	AB10027	0.45	07/06/2012	MGA94Z55	553400	5388800	Howard Armitage	
Gipps Creek	AB10028	0.50	07/06/2012	MGA94Z55	553425	5388800	Howard Armitage	
Gipps Creek	AB10029	0.30	07/06/2012	MGA94Z55	553450	5388800	Howard Armitage	
Gipps Creek	AB10030	0.30	07/06/2012	MGA94Z55	553475	5388800	Howard Armitage	
Gipps Creek	AB10031	0.20	07/06/2012	MGA94Z55	553500	5388800	Howard Armitage	very steep gorge, organic matter
Gipps Creek	AB10032	0.30	07/06/2012	MGA94Z55	553525	5388800	Howard Armitage	
Gipps Creek	AB10033	0.20	07/06/2012	MGA94Z55	553550	5388800	Howard Armitage	poor sample with rocks and organic matter
Gipps Creek	AB10034	0.50	08/06/2012	MGA94Z55	552750	5388700	Howard Armitage	prospecting pit 3m south, sample 30pct clay
Gipps Creek	AB10035	0.60	08/06/2012	MGA94Z55	552775	5388700	Howard Armitage	coarse sandy sample
Gipps Creek	AB10036	0.30	08/06/2012	MGA94Z55	552800	5388700	Howard Armitage	
Gipps Creek	AB10037	0.40	08/06/2012	MGA94Z55	552825	5388700	Howard Armitage	
Gipps Creek	AB10038	0.50	08/06/2012	MGA94Z55	552850	5388700	Howard Armitage	
Gipps Creek	AB10039	0.40	08/06/2012	MGA94Z55	552875	5388700	Howard Armitage	
Gipps Creek	AB10041	0.45	08/06/2012	MGA94Z55	552890	5388700	Howard Armitage	
Gipps Creek	AB10042	0.65	08/06/2012	MGA94Z55	552925	5388700	Howard Armitage	

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10043	0.50	08/06/2012	MGA94Z55	552950	5388700	Howard Armitage	
Gipps Creek	AB10044	0.30	08/06/2012	MGA94Z55	552975	5388700	Howard Armitage	success on 12th attempt
Gipps Creek	AB10045	0.50	08/06/2012	MGA94Z55	553000	5388700	Howard Armitage	8 attempts
Gipps Creek	AB10046	0.50	08/06/2012	MGA94Z55	553025	5388700	Howard Armitage	
Gipps Creek	AB10047	0.25	08/06/2012	MGA94Z55	553050	5388700	Howard Armitage	
Gipps Creek	AB10048	0.20	08/06/2012	MGA94Z55	553075	5388700	Howard Armitage	soil shallow, large outcrop nearby
Gipps Creek	AB10049	0.40	08/06/2012	MGA94Z55	553100	5388700	Howard Armitage	
Gipps Creek	AB10050	0.50	08/06/2012	MGA94Z55	553125	5388700	Howard Armitage	
Gipps Creek	AB10051	0.60	08/06/2012	MGA94Z55	553150	5388700	Howard Armitage	N-S trench up to 3m deep
Gipps Creek	AB10052	0.50	08/06/2012	MGA94Z55	553175	5388700	Howard Armitage	
Gipps Creek	AB10053	0.40	08/06/2012	MGA94Z55	553200	5388700	Howard Armitage	
Gipps Creek	AB10054	0.25	08/06/2012	MGA94Z55	553225	5388700	Howard Armitage	
Gipps Creek	AB10055	0.15	08/06/2012	MGA94Z55	553250	5388700	Howard Armitage	extensive boulder scree
Gipps Creek	AB10056	0.10	08/06/2012	MGA94Z55	553275	5388700	Howard Armitage	extensive boulder scree
Gipps Creek	AB10057	0.10	08/06/2012	MGA94Z55	553300	5388700	Howard Armitage	extensive boulder scree
Gipps Creek	AB10058	0.10	08/06/2012	MGA94Z55	553325	5388700	Howard Armitage	extensive boulder scree
Gipps Creek	AB10059	0.40	08/06/2012	MGA94Z55	553350	5388700	Howard Armitage	
Gipps Creek	AB10060	0.60	08/06/2012	MGA94Z55	553375	5388700	Howard Armitage	
Gipps Creek	AB10061	0.40	08/06/2012	MGA94Z55	553400	5388700	Howard Armitage	
Gipps Creek	AB10062	0.30	08/06/2012	MGA94Z55	553425	5388700	Howard Armitage	
Gipps Creek	AB10063	0.20	08/06/2012	MGA94Z55	553450	5388700	Howard Armitage	
Gipps Creek	AB10064	0.20	08/06/2012	MGA94Z55	553475	5388700	Howard Armitage	
Gipps Creek	AB10065	0.20	08/06/2012	MGA94Z55	553500	5388700	Howard Armitage	
Gipps Creek	AB10066	0.20	08/06/2012	MGA94Z55	553525	5388700	Howard Armitage	very steep gorge
Gipps Creek	AB10067	0.20	08/06/2012	MGA94Z55	553550	5388700	Howard Armitage	highly organic
Gipps Creek	AB10068	0.30	10/06/2012	MGA94Z55	552750	5388600	Howard Armitage	clayey soil
Gipps Creek	AB10069	0.70	10/06/2012	MGA94Z55	552775	5388600	Howard Armitage	clayey soil
Gipps Creek	AB10070	0.30	10/06/2012	MGA94Z55	552800	5388600	Howard Armitage	weathered granite, edge of alluvial workings
Gipps Creek	AB10071	0.60	10/06/2012	MGA94Z55	552825	5388600	Howard Armitage	
Gipps Creek	AB10072	0.50	10/06/2012	MGA94Z55	552850	5388600	Howard Armitage	
Gipps Creek	AB10073	0.50	10/06/2012	MGA94Z55	552875	5388600	Howard Armitage	
Gipps Creek	AB10074	0.20	10/06/2012	MGA94Z55	552900	5388600	Howard Armitage	very rocky difficult site
Gipps Creek	AB10075	0.70	10/06/2012	MGA94Z55	552925	5388600	Howard Armitage	edge of alluvial workings
Gipps Creek	AB10076	0.50	10/06/2012	MGA94Z55	552950	5388600	Howard Armitage	
Gipps Creek	AB10077	0.40	10/06/2012	MGA94Z55	552975	5388600	Howard Armitage	
Gipps Creek	AB10078	0.10	10/06/2012	MGA94Z55	553000	5388600	Howard Armitage	middle of worked gully
Gipps Creek	AB10079	0.20	10/06/2012	MGA94Z55	553025	5388600	Howard Armitage	
Gipps Creek	AB10081	0.40	10/06/2012	MGA94Z55	553050	5388600	Howard Armitage	
Gipps Creek	AB10082	0.20	10/06/2012	MGA94Z55	553075	5388600	Howard Armitage	poor sample, rock near surface
Gipps Creek	AB10083	0.40	10/06/2012	MGA94Z55	553100	5388600	Howard Armitage	
Gipps Creek	AB10084	0.30	10/06/2012	MGA94Z55	553125	5388600	Howard Armitage	

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10085	0.60	10/06/2012	MGA94Z55	553150	5388600	Howard Armitage	water filled shadt at 3060mE, N-S costeans, adit at N end
Gipps Creek	AB10086	0.20	10/06/2012	MGA94Z55	553175	5388600	Howard Armitage	
Gipps Creek	AB10087	0.30	10/06/2012	MGA94Z55	553200	5388600	Howard Armitage	boulder scree
Gipps Creek	AB10088	0.25	10/06/2012	MGA94Z55	553225	5388600	Howard Armitage	boulder scree
Gipps Creek	AB10089	0.30	10/06/2012	MGA94Z55	553250	5388600	Howard Armitage	boulder scree
Gipps Creek	AB10090	0.30	10/06/2012	MGA94Z55	553275	5388600	Howard Armitage	boulder scree
Gipps Creek	AB10091	0.40	10/06/2012	MGA94Z55	553300	5388600	Howard Armitage	boulder scree
Gipps Creek	AB10092	0.30	10/06/2012	MGA94Z55	553325	5388600	Howard Armitage	boulder scree, gravelly soil
Gipps Creek	AB10093	0.30	10/06/2012	MGA94Z55	553350	5388600	Howard Armitage	boulder scree
Gipps Creek	AB10094	0.40	10/06/2012	MGA94Z55	553375	5388600	Howard Armitage	granite outcrop
Gipps Creek	AB10095	0.20	10/06/2012	MGA94Z55	553400	5388600	Howard Armitage	boulder scree
Gipps Creek	AB10096	0.20	10/06/2012	MGA94Z55	553425	5388600	Howard Armitage	
Gipps Creek	AB10097	0.25	10/06/2012	MGA94Z55	553450	5388600	Howard Armitage	
Gipps Creek	AB10098	0.20	10/06/2012	MGA94Z55	553475	5388600	Howard Armitage	
Gipps Creek	AB10099	0.30	10/06/2012	MGA94Z55	553500	5388600	Howard Armitage	
Gipps Creek	AB10100	0.25	10/06/2012	MGA94Z55	553525	5388600	Howard Armitage	
Gipps Creek	AB10101	0.50	10/06/2012	MGA94Z55	553550	5388600	Howard Armitage	laqrge N-S water race
Gipps Creek	AB10102	0.20	10/06/2012	MGA94Z55	553575	5388600	Howard Armitage	
Gipps Creek	AB10103	0.30	10/06/2012	MGA94Z55	553600	5388600	Howard Armitage	
Gipps Creek	AB10104		11/06/2012	MGA94Z55	552750	5388500	Howard Armitage	
Gipps Creek	AB10105	0.50	11/06/2012	MGA94Z55	552775	5388500	Howard Armitage	
Gipps Creek	AB10106	0.50	11/06/2012	MGA94Z55	552800	5388500	Howard Armitage	NW-SE water race at 2790mE
Gipps Creek	AB10107	0.40	11/06/2012	MGA94Z55	552825	5388500	Howard Armitage	
Gipps Creek	AB10108	0.70	11/06/2012	MGA94Z55	552850	5388500	Howard Armitage	
Gipps Creek	AB10109	0.70	11/06/2012	MGA94Z55	552875	5388500	Howard Armitage	western edge of alluvials
Gipps Creek	AB10110	0.40	11/06/2012	MGA94Z55	552900	5388500	Howard Armitage	
Gipps Creek	AB10111	0.20	11/06/2012	MGA94Z55	552921	5388500	Howard Armitage	disturbed ground
Gipps Creek	AB10112	0.35	11/06/2012	MGA94Z55	552950	5388500	Howard Armitage	yellow clayey sample
Gipps Creek	AB10113	0.70	11/06/2012	MGA94Z55	552975	5388500	Howard Armitage	
Gipps Creek	AB10114	0.20	11/06/2012	MGA94Z55	553000	5388500	Howard Armitage	
Gipps Creek	AB10115	0.30	11/06/2012	MGA94Z55	553025	5388500	Howard Armitage	
Gipps Creek	AB10116	0.40	11/06/2012	MGA94Z55	553050	5388500	Howard Armitage	eatern edge of alluvials
Gipps Creek	AB10117	0.30	11/06/2012	MGA94Z55	553075	5388500	Howard Armitage	NE-SW trench <1m deep at 3080mE, alluvial workings
Gipps Creek	AB10118	0.60	11/06/2012	MGA94Z55	553100	5388500	Howard Armitage	
Gipps Creek	AB10119	0.40	11/06/2012	MGA94Z55	553125	5388500	Howard Armitage	
Gipps Creek	AB10121	0.35	11/06/2012	MGA94Z55	553150	5388500	Howard Armitage	NE trending Adit at 553135E 5388560N
Gipps Creek	AB10122	0.40	11/06/2012	MGA94Z55	553175	5388500	Howard Armitage	N trending Adit at 553160E 5388530N
Gipps Creek	AB10123	0.25	11/06/2012	MGA94Z55	553200	5388500	Howard Armitage	BASELINE, major water race
Gipps Creek	AB10124	0.60	11/06/2012	MGA94Z55	553225	5388500	Howard Armitage	water race
Gipps Creek	AB10125	0.50	11/06/2012	MGA94Z55	553250	5388500	Howard Armitage	water race
Gipps Creek	AB10126	0.50	11/06/2012	MGA94Z55	553275	5388500	Howard Armitage	water race

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PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10127	0.60	11/06/2012	MGA94Z55	553300	5388500	Howard Armitage	water race
Gipps Creek	AB10128	0.60	11/06/2012	MGA94Z55	553325	5388500	Howard Armitage	water race
Gipps Creek	AB10129	0.70	11/06/2012	MGA94Z55	553350	5388500	Howard Armitage	water race
Gipps Creek	AB10130	0.70	11/06/2012	MGA94Z55	553375	5388500	Howard Armitage	water race
Gipps Creek	AB10131	0.40	11/06/2012	MGA94Z55	553400	5388500	Howard Armitage	water race
Gipps Creek	AB10132	0.10	11/06/2012	MGA94Z55	553425	5388500	Howard Armitage	water race, granite sheet, highly organic soil
Gipps Creek	AB10133	0.40	11/06/2012	MGA94Z55	553450	5388500	Howard Armitage	water race
Gipps Creek	AB10134	0.50	11/06/2012	MGA94Z55	553475	5388500	Howard Armitage	water race
Gipps Creek	AB10135	0.50	11/06/2012	MGA94Z55	553500	5388500	Howard Armitage	water race WSW-ESE
Gipps Creek	AB10136	0.30	11/06/2012	MGA94Z55	553525	5388500	Howard Armitage	high organic content
Gipps Creek	AB10137	0.30	11/06/2012	MGA94Z55	553550	5388500	Howard Armitage	high organic content
Gipps Creek	AB10138	0.25	11/06/2012	MGA94Z55	553575	5388500	Howard Armitage	
Gipps Creek	AB10139	0.30	11/06/2012	MGA94Z55	553600	5388500	Howard Armitage	granite sheet close to surface
Gipps Creek	AB10140	0.35	12/06/2012	MGA94Z55	552750	5388400	Howard Armitage	outcrop sst with qtz veins and gossan at 552735E 5388715N
Gipps Creek	AB10141	0.40	12/06/2012	MGA94Z55	552775	5388400	Howard Armitage	
Gipps Creek	AB10142	0.40	12/06/2012	MGA94Z55	552800	5388400	Howard Armitage	
Gipps Creek	AB10143	0.50	12/06/2012	MGA94Z55	552825	5388400	Howard Armitage	by road
Gipps Creek	AB10144	0.40	12/06/2012	MGA94Z55	552850	5388400	Howard Armitage	
Gipps Creek	AB10145	0.50	12/06/2012	MGA94Z55	552875	5388400	Howard Armitage	water race at 2860mE
Gipps Creek	AB10146	0.50	12/06/2012	MGA94Z55	552900	5388400	Howard Armitage	
Gipps Creek	AB10147	0.30	12/06/2012	MGA94Z55	552925	5388400	Howard Armitage	sst in bed of creek, alluvial workings
Gipps Creek	AB10148	0.50	12/06/2012	MGA94Z55	552940	5388400	Howard Armitage	
Gipps Creek	AB10149	0.65	12/06/2012	MGA94Z55	552975	5388400	Howard Armitage	
Gipps Creek	AB10150	0.50	12/06/2012	MGA94Z55	553000	5388400	Howard Armitage	alluvials
Gipps Creek	AB10151	0.25	12/06/2012	MGA94Z55	553025	5388400	Howard Armitage	
Gipps Creek	AB10152	0.40	12/06/2012	MGA94Z55	553050	5388400	Howard Armitage	
Gipps Creek	AB10153	0.35	12/06/2012	MGA94Z55	553075	5388400	Howard Armitage	
Gipps Creek	AB10154	0.40	12/06/2012	MGA94Z55	553100	5388400	Howard Armitage	
Gipps Creek	AB10155	0.40	12/06/2012	MGA94Z55	553125	5388400	Howard Armitage	
Gipps Creek	AB10156	0.60	12/06/2012	MGA94Z55	553150	5388400	Howard Armitage	
Gipps Creek	AB10157	0.40	12/06/2012	MGA94Z55	553175	5388400	Howard Armitage	shaft at 553185E 5388395N
Gipps Creek	AB10158	0.60	12/06/2012	MGA94Z55	553200	5388400	Howard Armitage	BASELINE
Gipps Creek	AB10159	0.40	12/06/2012	MGA94Z55	553225	5388410	Howard Armitage	sample taken 10 metres north due to wasps, organic soil
Gipps Creek	AB10161	0.60	12/06/2012	MGA94Z55	553250	5388400	Howard Armitage	high organic content
Gipps Creek	AB10162	0.40	12/06/2012	MGA94Z55	553275	5388400	Howard Armitage	high organic content
Gipps Creek	AB10163	0.30	12/06/2012	MGA94Z55	553300	5388400	Howard Armitage	high organic content
Gipps Creek	AB10164	0.30	12/06/2012	MGA94Z55	553325	5388400	Howard Armitage	high organic content
Gipps Creek	AB10165	0.50	12/06/2012	MGA94Z55	553350	5388400	Howard Armitage	high organic content
Gipps Creek	AB10166	0.30	12/06/2012	MGA94Z55	553375	5388400	Howard Armitage	high organic content, 7 attempts
Gipps Creek	AB10167	0.50	12/06/2012	MGA94Z55	553400	5388400	Howard Armitage	high organic content
Gipps Creek	AB10168	0.40	12/06/2012	MGA94Z55	553425	5388400	Howard Armitage	high organic content

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PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10169	0.30	12/06/2012	MGA94Z55	553460	5388400	Howard Armitage	middle of creek bed - sample moved 10 metres
Gipps Creek	AB10170	0.50	12/06/2012	MGA94Z55	553475	5388400	Howard Armitage	N→S water race
Gipps Creek	AB10171	0.20	12/06/2012	MGA94Z55	553500	5388400	Howard Armitage	
Gipps Creek	AB10172	0.50	12/06/2012	MGA94Z55	553525	5388400	Howard Armitage	
Gipps Creek	AB10173	0.20	12/06/2012	MGA94Z55	553550	5388400	Howard Armitage	
Gipps Creek	AB10174	0.15	12/06/2012	MGA94Z55	553575	5388400	Howard Armitage	
Gipps Creek	AB10175	0.30	12/06/2012	MGA94Z55	553600	5388400	Howard Armitage	
Gipps Creek	AB10176	0.50	13/06/2012	MGA94Z55	552750	5388300	Howard Armitage	qtz float 10 metres west
Gipps Creek	AB10177	0.50	13/06/2012	MGA94Z55	552775	5388300	Howard Armitage	
Gipps Creek	AB10178	0.50	13/06/2012	MGA94Z55	552800	5388300	Howard Armitage	
Gipps Creek	AB10179	0.55	13/06/2012	MGA94Z55	552825	5388300	Howard Armitage	
Gipps Creek	AB10180	0.50	13/06/2012	MGA94Z55	552850	5388300	Howard Armitage	
Gipps Creek	AB10181	0.30	13/06/2012	MGA94Z55	552875	5388300	Howard Armitage	
Gipps Creek	AB10182	0.30	13/06/2012	MGA94Z55	552900	5388300	Howard Armitage	
Gipps Creek	AB10183	0.50	13/06/2012	MGA94Z55	552925	5388300	Howard Armitage	sample taken from bank in alluvial area
Gipps Creek	AB10184	0.50	13/06/2012	MGA94Z55	552950	5388300	Howard Armitage	alluvials
Gipps Creek	AB10185	0.30	13/06/2012	MGA94Z55	552975	5388300	Howard Armitage	bottom of gully
Gipps Creek	AB10186	0.50	13/06/2012	MGA94Z55	553000	5388300	Howard Armitage	alluvials
Gipps Creek	AB10187	0.40	13/06/2012	MGA94Z55	553025	5388300	Howard Armitage	alluvials
Gipps Creek	AB10188	0.25	13/06/2012	MGA94Z55	553050	5388300	Howard Armitage	large boulders
Gipps Creek	AB10189	0.40	13/06/2012	MGA94Z55	553075	5388300	Howard Armitage	
Gipps Creek	AB10190	0.25	13/06/2012	MGA94Z55	553100	5388300	Howard Armitage	
Gipps Creek	AB10191	0.30	13/06/2012	MGA94Z55	553125	5388300	Howard Armitage	coarse granite outcrop with black mineral in veins
Gipps Creek	AB10192	0.40	13/06/2012	MGA94Z55	553150	5388300	Howard Armitage	water race at 3145mE
Gipps Creek	AB10193	0.35	13/06/2012	MGA94Z55	553175	5388300	Howard Armitage	
Gipps Creek	AB10194	0.50	13/06/2012	MGA94Z55	553200	5388300	Howard Armitage	BASELINE
Gipps Creek	AB10195	0.40	13/06/2012	MGA94Z55	553225	5388300	Howard Armitage	
Gipps Creek	AB10196	0.35	13/06/2012	MGA94Z55	553250	5388300	Howard Armitage	
Gipps Creek	AB10197	0.50	13/06/2012	MGA94Z55	553275	5388300	Howard Armitage	
Gipps Creek	AB10198	0.50	13/06/2012	MGA94Z55	553300	5388300	Howard Armitage	water race E→W
Gipps Creek	AB10199	0.50	13/06/2012	MGA94Z55	553325	5388300	Howard Armitage	water race E→W
Gipps Creek	AB10201	0.50	13/06/2012	MGA94Z55	553350	5388300	Howard Armitage	water race E→W
Gipps Creek	AB10202	0.50	13/06/2012	MGA94Z55	553375	5388300	Howard Armitage	water race E→W
Gipps Creek	AB10203	0.50	13/06/2012	MGA94Z55	553400	5388300	Howard Armitage	
Gipps Creek	AB10204	0.45	13/06/2012	MGA94Z55	553425	5388300	Howard Armitage	
Gipps Creek	AB10205	0.45	13/06/2012	MGA94Z55	553450	5388300	Howard Armitage	
Gipps Creek	AB10206	0.35	13/06/2012	MGA94Z55	553475	5388300	Howard Armitage	
Gipps Creek	AB10207	0.30	13/06/2012	MGA94Z55	553500	5388300	Howard Armitage	
Gipps Creek	AB10208	0.50	13/06/2012	MGA94Z55	553525	5388300	Howard Armitage	bad site - rock scree
Gipps Creek	AB10209	0.20	13/06/2012	MGA94Z55	553550	5388300	Howard Armitage	rock scree
Gipps Creek	AB10210	0.40	13/06/2012	MGA94Z55	553575	5388300	Howard Armitage	rock scree

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PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10211	0.30	13/06/2012	MGA94Z55	553600	5388300	Howard Armitage	rock scree
Gipps Creek	AB10212	0.45	14/06/2012	MGA94Z55	552750	5388200	Howard Armitage	
Gipps Creek	AB10213	0.50	14/06/2012	MGA94Z55	552775	5388200	Howard Armitage	
Gipps Creek	AB10214	0.50	14/06/2012	MGA94Z55	552800	5388200	Howard Armitage	granite bboulders nearby
Gipps Creek	AB10215	0.50	14/06/2012	MGA94Z55	552825	5388200	Howard Armitage	
Gipps Creek	AB10216	0.55	14/06/2012	MGA94Z55	552850	5388200	Howard Armitage	
Gipps Creek	AB10217	0.35	14/06/2012	MGA94Z55	552875	5388200	Howard Armitage	water race N→S at 5882mE
Gipps Creek	AB10218	0.50	14/06/2012	MGA94Z55	552900	5388200	Howard Armitage	
Gipps Creek	AB10219	0.40	14/06/2012	MGA94Z55	552925	5388200	Howard Armitage	
Gipps Creek	AB10220	0.35	14/06/2012	MGA94Z55	552950	5388200	Howard Armitage	
Gipps Creek	AB10221	0.25	14/06/2012	MGA94Z55	552975	5388200	Howard Armitage	deep alluvial workings, poor sample with organic matter
Gipps Creek	AB10222	0.40	14/06/2012	MGA94Z55	553000	5388200	Howard Armitage	disturbed ground, organic matter
Gipps Creek	AB10223	0.35	14/06/2012	MGA94Z55	553025	5388200	Howard Armitage	disturbed ground, organic matter
Gipps Creek	AB10224	0.50	14/06/2012	MGA94Z55	553050	5388200	Howard Armitage	
Gipps Creek	AB10225	0.30	14/06/2012	MGA94Z55	553075	5388200	Howard Armitage	
Gipps Creek	AB10226	0.35	14/06/2012	MGA94Z55	553100	5388200	Howard Armitage	hydrothermal qtz veining in rock float at 3115mE
Gipps Creek	AB10227	0.40	14/06/2012	MGA94Z55	553125	5388200	Howard Armitage	water race N→S at 3140mE
Gipps Creek	AB10228	0.40	14/06/2012	MGA94Z55	553150	5388200	Howard Armitage	
Gipps Creek	AB10229	0.40	14/06/2012	MGA94Z55	553175	5388200	Howard Armitage	
Gipps Creek	AB10230	0.50	14/06/2012	MGA94Z55	553200	5388200	Howard Armitage	Baseline, water race N→S at 2m W
Gipps Creek	AB10231	0.30	14/06/2012	MGA94Z55	553225	5388200	Howard Armitage	
Gipps Creek	AB10232	0.35	14/06/2012	MGA94Z55	553250	5388200	Howard Armitage	
Gipps Creek	AB10233	0.45	14/06/2012	MGA94Z55	553275	5388200	Howard Armitage	
Gipps Creek	AB10234	0.25	14/06/2012	MGA94Z55	553300	5388200	Howard Armitage	granite outcrop
Gipps Creek	AB10235	0.40	14/06/2012	MGA94Z55	553325	5388200	Howard Armitage	
Gipps Creek	AB10236	0.30	14/06/2012	MGA94Z55	553350	5388200	Howard Armitage	granite outcrop
Gipps Creek	AB10237	0.20	14/06/2012	MGA94Z55	553375	5388200	Howard Armitage	rock scree
Gipps Creek	AB10238	0.40	14/06/2012	MGA94Z55	553400	5388200	Howard Armitage	rock scree
Gipps Creek	AB10239	0.25	14/06/2012	MGA94Z55	553425	5388200	Howard Armitage	rock scree
Gipps Creek	AB10241	0.30	14/06/2012	MGA94Z55	553450	5388200	Howard Armitage	
Gipps Creek	AB10242	0.30	14/06/2012	MGA94Z55	553475	5388200	Howard Armitage	
Gipps Creek	AB10243	0.25	14/06/2012	MGA94Z55	553500	5388200	Howard Armitage	
Gipps Creek	AB10244	0.25	14/06/2012	MGA94Z55	553525	5388200	Howard Armitage	
Gipps Creek	AB10245	0.25	14/06/2012	MGA94Z55	553550	5388200	Howard Armitage	
Gipps Creek	AB10246	0.30	14/06/2012	MGA94Z55	553575	5388200	Howard Armitage	
Gipps Creek	AB10247	0.30	14/06/2012	MGA94Z55	553600	5388200	Howard Armitage	
Gipps Creek	AB10248	0.30	15/06/2012	MGA94Z55	552750	5388100	Howard Armitage	dolerite float
Gipps Creek	AB10249	0.35	15/06/2012	MGA94Z55	552775	5388100	Howard Armitage	dark grey hard sst with small pebbles as float
Gipps Creek	AB10250	0.60	15/06/2012	MGA94Z55	552800	5388100	Howard Armitage	granite float
Gipps Creek	AB10251	0.40	15/06/2012	MGA94Z55	552825	5388100	Howard Armitage	granite boulders
Gipps Creek	AB10252	0.30	15/06/2012	MGA94Z55	552850	5388100	Howard Armitage	granite outcrop and boulders

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10253	0.60	15/06/2012	MGA94Z55	552875	5388100	Howard Armitage	
Gipps Creek	AB10254	0.40	15/06/2012	MGA94Z55	552900	5388100	Howard Armitage	
Gipps Creek	AB10255	0.50	15/06/2012	MGA94Z55	552925	5388100	Howard Armitage	
Gipps Creek	AB10256	0.25	15/06/2012	MGA94Z55	552950	5388100	Howard Armitage	
Gipps Creek	AB10257	0.25	15/06/2012	MGA94Z55	552975	5388100	Howard Armitage	
Gipps Creek	AB10258	0.25	15/06/2012	MGA94Z55	553000	5388100	Howard Armitage	
Gipps Creek	AB10259	0.50	15/06/2012	MGA94Z55	553025	5388100	Howard Armitage	
Gipps Creek	AB10260	0.25	15/06/2012	MGA94Z55	553050	5388100	Howard Armitage	
Gipps Creek	AB10261	0.25	15/06/2012	MGA94Z55	553075	5388100	Howard Armitage	
Gipps Creek	AB10262	0.25	15/06/2012	MGA94Z55	553100	5388100	Howard Armitage	
Gipps Creek	AB10263	0.25	15/06/2012	MGA94Z55	553125	5388100	Howard Armitage	
Gipps Creek	AB10264	0.40	15/06/2012	MGA94Z55	553160	5388100	Howard Armitage	road, sample moved
Gipps Creek	AB10265	0.25	15/06/2012	MGA94Z55	553175	5388100	Howard Armitage	
Gipps Creek	AB10266	0.60	15/06/2012	MGA94Z55	553200	5388100	Howard Armitage	baseline, pits and trenches N-S
Gipps Creek	AB10267	0.40	15/06/2012	MGA94Z55	553225	5388100	Howard Armitage	small N-S trench at 3208E
Gipps Creek	AB10268	0.30	15/06/2012	MGA94Z55	553250	5388100	Howard Armitage	
Gipps Creek	AB10269	0.25	15/06/2012	MGA94Z55	553275	5388100	Howard Armitage	
Gipps Creek	AB10270	0.30	15/06/2012	MGA94Z55	553300	5388100	Howard Armitage	
Gipps Creek	AB10271	0.25	15/06/2012	MGA94Z55	553325	5388100	Howard Armitage	
Gipps Creek	AB10272	0.25	15/06/2012	MGA94Z55	553350	5388100	Howard Armitage	
Gipps Creek	AB10273	0.35	15/06/2012	MGA94Z55	553375	5388100	Howard Armitage	granite scree
Gipps Creek	AB10274	0.50	15/06/2012	MGA94Z55	553400	5388100	Howard Armitage	
Gipps Creek	AB10275	0.30	15/06/2012	MGA94Z55	553425	5388100	Howard Armitage	
Gipps Creek	AB10276	0.35	15/06/2012	MGA94Z55	553450	5388100	Howard Armitage	
Gipps Creek	AB10277	0.50	15/06/2012	MGA94Z55	553475	5388100	Howard Armitage	
Gipps Creek	AB10278	0.25	15/06/2012	MGA94Z55	553500	5388100	Howard Armitage	
Gipps Creek	AB10279	0.25	15/06/2012	MGA94Z55	553525	5388100	Howard Armitage	
Gipps Creek	AB10281	0.40	15/06/2012	MGA94Z55	553550	5388100	Howard Armitage	
Gipps Creek	AB10282	0.40	15/06/2012	MGA94Z55	553575	5388100	Howard Armitage	wet sample
Gipps Creek	AB10283	0.30	15/06/2012	MGA94Z55	553600	5388100	Howard Armitage	edge of small dry dam, water in auger hole
Gipps Creek	AB10284	0.35	16/06/2012	MGA94Z55	552750	5388000	Howard Armitage	clayey soil
Gipps Creek	AB10285	0.30	16/06/2012	MGA94Z55	552775	5388000	Howard Armitage	clayey soil
Gipps Creek	AB10286	0.40	16/06/2012	MGA94Z55	552800	5388000	Howard Armitage	
Gipps Creek	AB10287	0.30	16/06/2012	MGA94Z55	552825	5388000	Howard Armitage	
Gipps Creek	AB10288	0.40	16/06/2012	MGA94Z55	552850	5388000	Howard Armitage	
Gipps Creek	AB10289	0.40	16/06/2012	MGA94Z55	552875	5388000	Howard Armitage	
Gipps Creek	AB10290	0.50	16/06/2012	MGA94Z55	552900	5388000	Howard Armitage	
Gipps Creek	AB10291	0.40	16/06/2012	MGA94Z55	552925	5388000	Howard Armitage	
Gipps Creek	AB10292	0.50	16/06/2012	MGA94Z55	552950	5388000	Howard Armitage	large granite boulders
Gipps Creek	AB10293	0.40	16/06/2012	MGA94Z55	552975	5388000	Howard Armitage	water race at 2990mE
Gipps Creek	AB10294	0.30	16/06/2012	MGA94Z55	553000	5388000	Howard Armitage	Gipps Creek at 3020mE, dark organic soil

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10295	0.50	16/06/2012	MGA94Z55	553025	5388000	Howard Armitage	
Gipps Creek	AB10296	0.30	16/06/2012	MGA94Z55	553050	5388000	Howard Armitage	Ockle Creek workings
Gipps Creek	AB10297	0.20	16/06/2012	MGA94Z55	553075	5388000	Howard Armitage	Ockle Creek workings
Gipps Creek	AB10298	0.50	16/06/2012	MGA94Z55	553100	5388000	Howard Armitage	Ockle Creek workings
Gipps Creek	AB10299	0.20	16/06/2012	MGA94Z55	553125	5388000	Howard Armitage	Ockle Creek workings
Gipps Creek	AB10300	0.50	16/06/2012	MGA94Z55	553150	5388000	Howard Armitage	Ockle Creek workings
Gipps Creek	AB10301	0.50	16/06/2012	MGA94Z55	553175	5388000	Howard Armitage	Ockle Creek workings
Gipps Creek	AB10302	0.15	16/06/2012	MGA94Z55	553200	5388000	Howard Armitage	Ockle Creek workings, baseline
Gipps Creek	AB10303	0.40	16/06/2012	MGA94Z55	553225	5388000	Howard Armitage	old track
Gipps Creek	AB10304	0.50	16/06/2012	MGA94Z55	553250	5388000	Howard Armitage	deep E-W trench, 2m wide
Gipps Creek	AB10305	0.30	16/06/2012	MGA94Z55	553275	5388000	Howard Armitage	
Gipps Creek	AB10306	0.20	16/06/2012	MGA94Z55	553300	5388000	Howard Armitage	deep N-S trench 2m wide
Gipps Creek	AB10307	0.30	16/06/2012	MGA94Z55	553325	5388000	Howard Armitage	
Gipps Creek	AB10308	0.50	16/06/2012	MGA94Z55	553350	5387980	Howard Armitage	road, sample moved
Gipps Creek	AB10309	0.40	16/06/2012	MGA94Z55	553375	5387985	Howard Armitage	road, sample moved
Gipps Creek	AB10310	0.30	16/06/2012	MGA94Z55	553400	5387990	Howard Armitage	road, sample moved
Gipps Creek	AB10311	0.40	16/06/2012	MGA94Z55	553425	5387995	Howard Armitage	road, sample moved
Gipps Creek	AB10312	0.40	16/06/2012	MGA94Z55	553450	5388000	Howard Armitage	
Gipps Creek	AB10313	0.25	16/06/2012	MGA94Z55	553475	5388000	Howard Armitage	road at 3490mE
Gipps Creek	AB10314	0.25	16/06/2012	MGA94Z55	553500	5388000	Howard Armitage	large elongate feldspar phenocrysts in granite (up to 3cm long)
Gipps Creek	AB10315	0.50	16/06/2012	MGA94Z55	553525	5388000	Howard Armitage	large elongate feldspar phenocrysts in granite (up to 3cm long)
Gipps Creek	AB10316	0.50	16/06/2012	MGA94Z55	553550	5388000	Howard Armitage	large elongate feldspar phenocrysts in granite (up to 3cm long)
Gipps Creek	AB10317	0.30	16/06/2012	MGA94Z55	553575	5388000	Howard Armitage	large elongate feldspar phenocrysts in granite (up to 3cm long)
Gipps Creek	AB10318	0.30	16/06/2012	MGA94Z55	553600	5388000	Howard Armitage	large elongate feldspar phenocrysts in granite (up to 3cm long)
Gipps Creek	AB10319	0.50	18/06/2012	MGA94Z55	552750	5387900	Howard Armitage	
Gipps Creek	AB10321	0.30	18/06/2012	MGA94Z55	552775	5387900	Howard Armitage	scattered sst and sms float
Gipps Creek	AB10322	0.30	18/06/2012	MGA94Z55	552800	5387900	Howard Armitage	
Gipps Creek	AB10323	0.50	18/06/2012	MGA94Z55	552825	5387900	Howard Armitage	
Gipps Creek	AB10324	0.50	18/06/2012	MGA94Z55	552850	5387900	Howard Armitage	granite and qtz float
Gipps Creek	AB10325	0.50	18/06/2012	MGA94Z55	552875	5387900	Howard Armitage	
Gipps Creek	AB10326	0.50	18/06/2012	MGA94Z55	552900	5387900	Howard Armitage	granite subcrop
Gipps Creek	AB10327	0.40	18/06/2012	MGA94Z55	552925	5387900	Howard Armitage	
Gipps Creek	AB10328	0.35	18/06/2012	MGA94Z55	552950	5387900	Howard Armitage	granite outcrop
Gipps Creek	AB10329	0.30	18/06/2012	MGA94Z55	552975	5387900	Howard Armitage	
Gipps Creek	AB10330	0.20	18/06/2012	MGA94Z55	553000	5387900	Howard Armitage	water race N→S at 3005mE, high organic content
Gipps Creek	AB10331	0.20	18/06/2012	MGA94Z55	553025	5387900	Howard Armitage	high organic content
Gipps Creek	AB10332	0.50	18/06/2012	MGA94Z55	553050	5387900	Howard Armitage	Gipps Creek at 3040mE, N-S trenching
Gipps Creek	AB10333	0.50	18/06/2012	MGA94Z55	553075	5387900	Howard Armitage	N→S trenching and adit
Gipps Creek	AB10334	0.40	18/06/2012	MGA94Z55	553100	5387900	Howard Armitage	
Gipps Creek	AB10335	0.40	18/06/2012	MGA94Z55	553125	5387900	Howard Armitage	
Gipps Creek	AB10336	0.35	18/06/2012	MGA94Z55	553150	5387900	Howard Armitage	

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10337	0.40	18/06/2012	MGA94Z55	553175	5387900	Howard Armitage	
Gipps Creek	AB10338	0.40	18/06/2012	MGA94Z55	553200	5387900	Howard Armitage	
Gipps Creek	AB10339	0.40	18/06/2012	MGA94Z55	553225	5387900	Howard Armitage	
Gipps Creek	AB10340	0.50	18/06/2012	MGA94Z55	553250	5387900	Howard Armitage	E-W trench, E-W adits either side of line
Gipps Creek	AB10341	0.30	18/06/2012	MGA94Z55	553275	5387900	Howard Armitage	N-S trench at 3285mE
Gipps Creek	AB10342	0.50	18/06/2012	MGA94Z55	553300	5387900	Howard Armitage	N-S trench
Gipps Creek	AB10343	0.45	18/06/2012	MGA94Z55	553325	5387900	Howard Armitage	road
Gipps Creek	AB10344	0.45	18/06/2012	MGA94Z55	553350	5387900	Howard Armitage	
Gipps Creek	AB10345	0.45	18/06/2012	MGA94Z55	553375	5387900	Howard Armitage	
Gipps Creek	AB10346	0.50	18/06/2012	MGA94Z55	553400	5387900	Howard Armitage	road, outcrop E side
Gipps Creek	AB10347	0.30	18/06/2012	MGA94Z55	553425	5387900	Howard Armitage	granite rock and scree
Gipps Creek	AB10348	0.30	18/06/2012	MGA94Z55	553450	5387900	Howard Armitage	
Gipps Creek	AB10349	0.30	18/06/2012	MGA94Z55	553475	5387900	Howard Armitage	
Gipps Creek	AB10350	0.30	18/06/2012	MGA94Z55	553500	5387900	Howard Armitage	
Gipps Creek	AB10351	0.25	18/06/2012	MGA94Z55	553525	5387900	Howard Armitage	
Gipps Creek	AB10352	0.30	18/06/2012	MGA94Z55	553550	5387900	Howard Armitage	
Gipps Creek	AB10353	0.30	18/06/2012	MGA94Z55	553575	5387900	Howard Armitage	
Gipps Creek	AB10354	0.25	18/06/2012	MGA94Z55	553600	5387900	Howard Armitage	
Gipps Creek	AB10355	0.25	23/06/2012	MGA94Z55	552750	5387800	Howard Armitage	sst float - grey clay soil
Gipps Creek	AB10356	0.30	23/06/2012	MGA94Z55	552775	5387800	Howard Armitage	greyish clay soil
Gipps Creek	AB10357	0.40	23/06/2012	MGA94Z55	552800	5387800	Howard Armitage	yellow-grey clay
Gipps Creek	AB10358	0.40	23/06/2012	MGA94Z55	552825	5387800	Howard Armitage	
Gipps Creek	AB10359	0.50	23/06/2012	MGA94Z55	552850	5387800	Howard Armitage	prospecting pit at2870mE, sst float
Gipps Creek	AB10361	0.45	23/06/2012	MGA94Z55	552875	5387800	Howard Armitage	
Gipps Creek	AB10362	0.50	23/06/2012	MGA94Z55	552900	5387800	Howard Armitage	long ENE-WSW trench 1m deep
Gipps Creek	AB10363	0.45	23/06/2012	MGA94Z55	552925	5387800	Howard Armitage	
Gipps Creek	AB10364	0.35	23/06/2012	MGA94Z55	552950	5387800	Howard Armitage	
Gipps Creek	AB10365	0.30	23/06/2012	MGA94Z55	552975	5387800	Howard Armitage	granite outcrop, dark grey soil
Gipps Creek	AB10366	0.30	23/06/2012	MGA94Z55	553000	5387800	Howard Armitage	dug soil from E bank of creek
Gipps Creek	AB10367	0.30	23/06/2012	MGA94Z55	553025	5387800	Howard Armitage	granite outcrop and scree
Gipps Creek	AB10368	0.50	23/06/2012	MGA94Z55	553050	5387800	Howard Armitage	E-W trench
Gipps Creek	AB10369	0.40	23/06/2012	MGA94Z55	553075	5387800	Howard Armitage	
Gipps Creek	AB10370	0.50	23/06/2012	MGA94Z55	553100	5387800	Howard Armitage	Adit → east into hill, E-W and N-S trenches
Gipps Creek	AB10371	0.30	23/06/2012	MGA94Z55	553125	5387800	Howard Armitage	
Gipps Creek	AB10372	0.40	23/06/2012	MGA94Z55	553150	5387800	Howard Armitage	
Gipps Creek	AB10373	0.25	23/06/2012	MGA94Z55	553175	5387800	Howard Armitage	sst outcrop with qtz veins at 3185mE
Gipps Creek	AB10374	0.35	23/06/2012	MGA94Z55	553200	5387800	Howard Armitage	baseline
Gipps Creek	AB10375	0.35	23/06/2012	MGA94Z55	553225	5387800	Howard Armitage	
Gipps Creek	AB10376	0.40	23/06/2012	MGA94Z55	553250	5387800	Howard Armitage	E-W trench at 7805mN
Gipps Creek	AB10377	0.35	23/06/2012	MGA94Z55	553275	5387800	Howard Armitage	
Gipps Creek	AB10378	0.35	23/06/2012	MGA94Z55	553300	5387800	Howard Armitage	3m wide, 2m deep N-S trench at 3310mE

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10379	0.40	23/06/2012	MGA94Z55	553325	5387800	Howard Armitage	N-S trench at 3330mE
Gipps Creek	AB10380	0.45	23/06/2012	MGA94Z55	553350	5387800	Howard Armitage	
Gipps Creek	AB10381	0.35	23/06/2012	MGA94Z55	553375	5387800	Howard Armitage	
Gipps Creek	AB10382	0.40	23/06/2012	MGA94Z55	553400	5387800	Howard Armitage	
Gipps Creek	AB10383	0.35	23/06/2012	MGA94Z55	553425	5387800	Howard Armitage	
Gipps Creek	AB10384	0.30	23/06/2012	MGA94Z55	553450	5387800	Howard Armitage	
Gipps Creek	AB10385	0.25	23/06/2012	MGA94Z55	553475	5387800	Howard Armitage	
Gipps Creek	AB10386	0.35	23/06/2012	MGA94Z55	553500	5387800	Howard Armitage	
Gipps Creek	AB10387	0.25	23/06/2012	MGA94Z55	553525	5387800	Howard Armitage	
Gipps Creek	AB10388		23/06/2012	MGA94Z55	553550	5387800	Howard Armitage	
Gipps Creek	AB10389		23/06/2012	MGA94Z55	553575	5387800	Howard Armitage	
Gipps Creek	AB10390		23/06/2012	MGA94Z55	553600	5387800	Howard Armitage	
Gipps Creek	AB10391	0.30	24/06/2012	MGA94Z55	552750	5387700	Howard Armitage	black clay
Gipps Creek	AB10392	0.30	24/06/2012	MGA94Z55	552775	5387700	Howard Armitage	black clay
Gipps Creek	AB10393	0.30	24/06/2012	MGA94Z55	552800	5387700	Howard Armitage	black clay
Gipps Creek	AB10394	0.30	24/06/2012	MGA94Z55	552825	5387700	Howard Armitage	black clay
Gipps Creek	AB10395	0.30	24/06/2012	MGA94Z55	552850	5387700	Howard Armitage	black clay
Gipps Creek	AB10396	0.30	24/06/2012	MGA94Z55	552875	5387700	Howard Armitage	black clay
Gipps Creek	AB10397	0.30	24/06/2012	MGA94Z55	552900	5387700	Howard Armitage	black clay
Gipps Creek	AB10398	0.10	24/06/2012	MGA94Z55	552925	5387700	Howard Armitage	old hydraulic workings
Gipps Creek	AB10399	0.50	24/06/2012	MGA94Z55	552950	5387700	Howard Armitage	
Gipps Creek	AB10401	0.35	24/06/2012	MGA94Z55	552975	5387700	Howard Armitage	
Gipps Creek	AB10402	0.40	24/06/2012	MGA94Z55	553000	5387700	Howard Armitage	
Gipps Creek	AB10403	0.35	24/06/2012	MGA94Z55	553025	5387700	Howard Armitage	rocky site, high organic content
Gipps Creek	AB10404	0.40	24/06/2012	MGA94Z55	553050	5387700	Howard Armitage	Gipps Creek and water race at 3045mE
Gipps Creek	AB10405	0.30	24/06/2012	MGA94Z55	553075	5387700	Howard Armitage	
Gipps Creek	AB10406	0.40	24/06/2012	MGA94Z55	553100	5387700	Howard Armitage	
Gipps Creek	AB10407	0.50	24/06/2012	MGA94Z55	553125	5387700	Howard Armitage	N-S trench 1m deep by 0.5m wide
Gipps Creek	AB10408	0.35	24/06/2012	MGA94Z55	553150	5387700	Howard Armitage	
Gipps Creek	AB10409	0.40	24/06/2012	MGA94Z55	553175	5387700	Howard Armitage	
Gipps Creek	AB10410	0.40	24/06/2012	MGA94Z55	553200	5387700	Howard Armitage	baseline, collapsed timber framed adit, qtz-tourmaline
Gipps Creek	AB10411	0.40	24/06/2012	MGA94Z55	553225	5387700	Howard Armitage	large trench N-S and adits
Gipps Creek	AB10412	0.30	24/06/2012	MGA94Z55	553250	5387700	Howard Armitage	
Gipps Creek	AB10413	0.50	24/06/2012	MGA94Z55	553275	5387700	Howard Armitage	
Gipps Creek	AB10414	0.40	24/06/2012	MGA94Z55	553300	5387700	Howard Armitage	
Gipps Creek	AB10415	0.50	24/06/2012	MGA94Z55	553325	5387700	Howard Armitage	
Gipps Creek	AB10416	0.30	24/06/2012	MGA94Z55	553350	5387700	Howard Armitage	
Gipps Creek	AB10417	0.50	24/06/2012	MGA94Z55	553375	5387700	Howard Armitage	granite outcrop
Gipps Creek	AB10418	0.40	24/06/2012	MGA94Z55	553400	5387700	Howard Armitage	
Gipps Creek	AB10419	0.50	24/06/2012	MGA94Z55	553425	5387700	Howard Armitage	
Gipps Creek	AB10420	0.30	24/06/2012	MGA94Z55	553450	5387700	Howard Armitage	granite outcrop

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10421	0.30	24/06/2012	MGA94Z55	553475	5387700	Howard Armitage	base of granite outcrop
Gipps Creek	AB10422	0.50	24/06/2012	MGA94Z55	553500	5387700	Howard Armitage	
Gipps Creek	AB10423	0.40	24/06/2012	MGA94Z55	553525	5387700	Howard Armitage	
Gipps Creek	AB10424	0.40	24/06/2012	MGA94Z55	553550	5387700	Howard Armitage	
Gipps Creek	AB10425	0.40	24/06/2012	MGA94Z55	553575	5387700	Howard Armitage	
Gipps Creek	AB10426	0.40	24/06/2012	MGA94Z55	553600	5387700	Howard Armitage	
Gipps Creek	AB10427		25/06/2012	MGA94Z55	552850	5387600	Howard Armitage	
Gipps Creek	AB10428		25/06/2012	MGA94Z55	552875	5387600	Howard Armitage	ssl/sst float nearby (Permian)
Gipps Creek	AB10429	0.50	25/06/2012	MGA94Z55	552900	5387600	Howard Armitage	
Gipps Creek	AB10430	0.40	25/06/2012	MGA94Z55	552925	5387600	Howard Armitage	
Gipps Creek	AB10431	0.30	25/06/2012	MGA94Z55	552950	5387600	Howard Armitage	
Gipps Creek	AB10432	0.40	25/06/2012	MGA94Z55	552975	5387600	Howard Armitage	dark grey clay
Gipps Creek	AB10433	0.50	25/06/2012	MGA94Z55	553000	5387600	Howard Armitage	
Gipps Creek	AB10434	0.50	25/06/2012	MGA94Z55	553025	5387600	Howard Armitage	
Gipps Creek	AB10435	0.30	25/06/2012	MGA94Z55	553050	5387600	Howard Armitage	prospecting pits to SE
Gipps Creek	AB10436	0.30	25/06/2012	MGA94Z55	553075	5387600	Howard Armitage	rocky site
Gipps Creek	AB10437	0.50	25/06/2012	MGA94Z55	553100	5387600	Howard Armitage	
Gipps Creek	AB10438	0.25	25/06/2012	MGA94Z55	553125	5387600	Howard Armitage	adit below
Gipps Creek	AB10439	0.50	25/06/2012	MGA94Z55	553150	5387600	Howard Armitage	
Gipps Creek	AB10441	0.40	25/06/2012	MGA94Z55	553175	5387600	Howard Armitage	
Gipps Creek	AB10442	0.40	25/06/2012	MGA94Z55	553200	5387600	Howard Armitage	small water race SE then S
Gipps Creek	AB10443	0.25	25/06/2012	MGA94Z55	553225	5387600	Howard Armitage	silty soil from alluvial flats
Gipps Creek	AB10444	0.30	25/06/2012	MGA94Z55	553250	5387600	Howard Armitage	disturbed ground, sandy soil and organics
Gipps Creek	AB10445	0.25	25/06/2012	MGA94Z55	553275	5387600	Howard Armitage	disturbed ground, sandy soil
Gipps Creek	AB10446	0.60	25/06/2012	MGA94Z55	553300	5387600	Howard Armitage	
Gipps Creek	AB10447	0.25	25/06/2012	MGA94Z55	553325	5387600	Howard Armitage	
Gipps Creek	AB10448	0.40	25/06/2012	MGA94Z55	553350	5387600	Howard Armitage	
Gipps Creek	AB10449	0.40	25/06/2012	MGA94Z55	553375	5387600	Howard Armitage	
Gipps Creek	AB10450	0.35	25/06/2012	MGA94Z55	553400	5387600	Howard Armitage	
Gipps Creek	AB10451	0.25	25/06/2012	MGA94Z55	553425	5387600	Howard Armitage	
Gipps Creek	AB10452	0.35	25/06/2012	MGA94Z55	553450	5387600	Howard Armitage	
Gipps Creek	AB10453	0.20	25/06/2012	MGA94Z55	553475	5387600	Howard Armitage	fine grained granite outcrop with qtz veining
Gipps Creek	AB10454	0.40	25/06/2012	MGA94Z55	553500	5387600	Howard Armitage	
Gipps Creek	AB10455	0.35	25/06/2012	MGA94Z55	553525	5387600	Howard Armitage	
Gipps Creek	AB10456	0.35	25/06/2012	MGA94Z55	553550	5387600	Howard Armitage	
Gipps Creek	AB10457	0.40	25/06/2012	MGA94Z55	553575	5387600	Howard Armitage	
Gipps Creek	AB10458	0.40	25/06/2012	MGA94Z55	553600	5387605	Howard Armitage	fine grained micaceous granite
Gipps Creek	AB10459	0.20	26/06/2012	MGA94Z55	553050	5387500	Howard Armitage	shallow alluvial workings
Gipps Creek	AB10460	0.25	26/06/2012	MGA94Z55	553075	5387500	Howard Armitage	old alluvila surface workings, clay
Gipps Creek	AB10461	0.30	26/06/2012	MGA94Z55	553100	5387500	Howard Armitage	clayey sample
Gipps Creek	AB10462	0.40	26/06/2012	MGA94Z55	553120	5387500	Howard Armitage	edge of alluvials

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PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10463	0.40	26/06/2012	MGA94Z55	553150	5387500	Howard Armitage	in midst of alluvials
Gipps Creek	AB10464	0.40	26/06/2012	MGA94Z55	553175	5387500	Howard Armitage	
Gipps Creek	AB10465	0.35	26/06/2012	MGA94Z55	553200	5387500	Howard Armitage	
Gipps Creek	AB10466	0.45	26/06/2012	MGA94Z55	553225	5387500	Howard Armitage	
Gipps Creek	AB10467	0.40	26/06/2012	MGA94Z55	553250	5387500	Howard Armitage	base of NE facing slope
Gipps Creek	AB10468	0.50	26/06/2012	MGA94Z55	553275	5387500	Howard Armitage	
Gipps Creek	AB10469	0.30	26/06/2012	MGA94Z55	553300	5387500	Howard Armitage	pre-worked alluvials
Gipps Creek	AB10470	0.60	26/06/2012	MGA94Z55	553325	5387500	Howard Armitage	W bank of Gipps Creek, high organics
Gipps Creek	AB10471	0.40	26/06/2012	MGA94Z55	553350	5387500	Howard Armitage	bae of steep west-facing slope, high organic content
Gipps Creek	AB10472	0.30	26/06/2012	MGA94Z55	553375	5387500	Howard Armitage	
Gipps Creek	AB10473	0.30	26/06/2012	MGA94Z55	553400	5387500	Howard Armitage	
Gipps Creek	AB10474	0.25	26/06/2012	MGA94Z55	553425	5387500	Howard Armitage	
Gipps Creek	AB10475	0.35	26/06/2012	MGA94Z55	553450	5387500	Howard Armitage	
Gipps Creek	AB10476	0.35	26/06/2012	MGA94Z55	553475	5387500	Howard Armitage	
Gipps Creek	AB10477	0.40	26/06/2012	MGA94Z55	553500	5387500	Howard Armitage	
Gipps Creek	AB10478	0.40	26/06/2012	MGA94Z55	553525	5387500	Howard Armitage	
Gipps Creek	AB10479	0.40	26/06/2012	MGA94Z55	553550	5387500	Howard Armitage	
Gipps Creek	AB10481	0.50	26/06/2012	MGA94Z55	553575	5387510	Howard Armitage	rock scree
Gipps Creek	AB10482	0.30	26/06/2012	MGA94Z55	553600	5387500	Howard Armitage	rock scree
Gipps Creek	AB10483	0.20	26/06/2012	MGA94Z55	553625	5387500	Howard Armitage	rock scree
Gipps Creek	AB10484	0.25	26/06/2012	MGA94Z55	553650	5387500	Howard Armitage	rock scree
Gipps Creek	AB10485	0.40	27/06/2012	MGA94Z55	553250	5387400	Howard Armitage	brown clay
Gipps Creek	AB10486	0.30	27/06/2012	MGA94Z55	553275	5387400	Howard Armitage	qtz-toumaine in pits
Gipps Creek	AB10487	0.40	27/06/2012	MGA94Z55	553300	5387400	Howard Armitage	organic content
Gipps Creek	AB10488	0.50	27/06/2012	MGA94Z55	553325	5387400	Howard Armitage	
Gipps Creek	AB10489	0.40	27/06/2012	MGA94Z55	553350	5387400	Howard Armitage	Gipps Creek, sandy alluvial material, organics with mica
Gipps Creek	AB10490	0.40	27/06/2012	MGA94Z55	553375	5387400	Howard Armitage	
Gipps Creek	AB10491	0.60	27/06/2012	MGA94Z55	553400	5387400	Howard Armitage	
Gipps Creek	AB10492	0.35	27/06/2012	MGA94Z55	553425	5387400	Howard Armitage	
Gipps Creek	AB10493	0.35	27/06/2012	MGA94Z55	553450	5387400	Howard Armitage	
Gipps Creek	AB10494	0.35	27/06/2012	MGA94Z55	553475	5387400	Howard Armitage	
Gipps Creek	AB10495	0.40	27/06/2012	MGA94Z55	553500	5387400	Howard Armitage	
Gipps Creek	AB10496	0.35	27/06/2012	MGA94Z55	553525	5387400	Howard Armitage	
Gipps Creek	AB10497	0.50	27/06/2012	MGA94Z55	553550	5387400	Howard Armitage	bank of small stream, mostly organic soil
Gipps Creek	AB10498	0.30	27/06/2012	MGA94Z55	553575	5387400	Howard Armitage	rock scree
Gipps Creek	AB10499	0.40	27/06/2012	MGA94Z55	553600	5387400	Howard Armitage	rock scree
Gipps Creek	AB10500	0.35	27/06/2012	MGA94Z55	553625	5387400	Howard Armitage	
Gipps Creek	AB10501	0.30	27/06/2012	MGA94Z55	553650	5387400	Howard Armitage	
Gipps Creek	AB10502	0.25	27/06/2012	MGA94Z55	553675	5387400	Howard Armitage	rocky site sat base of granite outcrop
Gipps Creek	AB10503	0.35	27/06/2012	MGA94Z55	553700	5387400	Howard Armitage	rocky site sat base of granite outcrop
Gipps Creek	AB10504		28/06/2012	MGA94Z55	553200	5387300	Howard Armitage	

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PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10505	0.30	28/06/2012	MGA94Z55	553225	5387300	Howard Armitage	grey clayey soil
Gipps Creek	AB10506	0.30	28/06/2012	MGA94Z55	553250	5387300	Howard Armitage	grey clayey soil
Gipps Creek	AB10507	0.25	28/06/2012	MGA94Z55	553275	5387300	Howard Armitage	dark sst float
Gipps Creek	AB10508	0.25	28/06/2012	MGA94Z55	553300	5387300	Howard Armitage	
Gipps Creek	AB10509	0.35	28/06/2012	MGA94Z55	553325	5387300	Howard Armitage	
Gipps Creek	AB10510	0.35	28/06/2012	MGA94Z55	553350	5387300	Howard Armitage	dark part organic soil
Gipps Creek	AB10511	0.30	28/06/2012	MGA94Z55	553375	5387300	Howard Armitage	dark part organic soil
Gipps Creek	AB10512	0.35	28/06/2012	MGA94Z55	553400	5387300	Howard Armitage	alluvium from bank of Gipps Creek
Gipps Creek	AB10513	0.30	28/06/2012	MGA94Z55	553425	5387300	Howard Armitage	
Gipps Creek	AB10514	0.15	28/06/2012	MGA94Z55	553450	5387300	Howard Armitage	granite outcrop, shallow sample
Gipps Creek	AB10515	0.30	28/06/2012	MGA94Z55	553475	5387300	Howard Armitage	
Gipps Creek	AB10516	0.40	28/06/2012	MGA94Z55	553500	5387300	Howard Armitage	
Gipps Creek	AB10517	0.40	28/06/2012	MGA94Z55	553525	5387300	Howard Armitage	
Gipps Creek	AB10518	0.40	28/06/2012	MGA94Z55	553550	5387300	Howard Armitage	
Gipps Creek	AB10519	0.30	28/06/2012	MGA94Z55	553575	5387300	Howard Armitage	
Gipps Creek	AB10521	0.25	28/06/2012	MGA94Z55	553600	5387300	Howard Armitage	
Gipps Creek	AB10522	0.35	28/06/2012	MGA94Z55	553625	5387300	Howard Armitage	
Gipps Creek	AB10523	0.20	28/06/2012	MGA94Z55	553640	5387300	Howard Armitage	base of 10m cliff, sample moved
Gipps Creek	AB10524	0.25	28/06/2012	MGA94Z55	553675	5387300	Howard Armitage	
Gipps Creek	AB10525	0.20	28/06/2012	MGA94Z55	553700	5387300	Howard Armitage	
Gipps Creek	AB10526	0.15	28/06/2012	MGA94Z55	553725	5387300	Howard Armitage	
Gipps Creek	AB10527	0.35	28/06/2012	MGA94Z55	553750	5387300	Howard Armitage	
Gipps Creek	AB10528	0.25	28/06/2012	MGA94Z55	553300	5387200	Howard Armitage	silty clay soil
Gipps Creek	AB10529	0.30	28/06/2012	MGA94Z55	553325	5387200	Howard Armitage	
Gipps Creek	AB10530	0.25	28/06/2012	MGA94Z55	553350	5387200	Howard Armitage	clay soil
Gipps Creek	AB10531	0.35	28/06/2012	MGA94Z55	553375	5387200	Howard Armitage	coarse sandy soil
Gipps Creek	AB10532	0.30	28/06/2012	MGA94Z55	553400	5387200	Howard Armitage	
Gipps Creek	AB10533	0.50	28/06/2012	MGA94Z55	553425	5387200	Howard Armitage	
Gipps Creek	AB10534	0.30	28/06/2012	MGA94Z55	553450	5387200	Howard Armitage	talus, E bank of Gipps Creek
Gipps Creek	AB10535	0.20	28/06/2012	MGA94Z55	553475	5387200	Howard Armitage	steep granite rock face
Gipps Creek	AB10536	0.25	28/06/2012	MGA94Z55	553500	5387200	Howard Armitage	rocky site
Gipps Creek	AB10537	0.25	28/06/2012	MGA94Z55	553525	5387200	Howard Armitage	rocky site
Gipps Creek	AB10538	0.25	28/06/2012	MGA94Z55	553550	5387200	Howard Armitage	
Gipps Creek	AB10539	0.25	28/06/2012	MGA94Z55	553575	5387200	Howard Armitage	granite outcrop, poor soil cover
Gipps Creek	AB10540	0.30	28/06/2012	MGA94Z55	553600	5387200	Howard Armitage	
Gipps Creek	AB10541	0.35	28/06/2012	MGA94Z55	553625	5387200	Howard Armitage	
Gipps Creek	AB10542	0.25	28/06/2012	MGA94Z55	553650	5387200	Howard Armitage	
Gipps Creek	AB10543	0.30	28/06/2012	MGA94Z55	553675	5387200	Howard Armitage	
Gipps Creek	AB10544	0.25	28/06/2012	MGA94Z55	553700	5387200	Howard Armitage	
Gipps Creek	AB10545	0.25	28/06/2012	MGA94Z55	553725	5387200	Howard Armitage	
Gipps Creek	AB10546	0.35	28/06/2012	MGA94Z55	553750	5387200	Howard Armitage	

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PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Gipps Creek	AB10547	0.35	29/06/2012	MGA94Z55	553350	5387100	Howard Armitage	clayey silty soil with gravel
Gipps Creek	AB10548	0.35	29/06/2012	MGA94Z55	553375	5387100	Howard Armitage	clayey silty soil with gravel
Gipps Creek	AB10549	0.25	29/06/2012	MGA94Z55	553400	5387100	Howard Armitage	clayey silty soil with gravel
Gipps Creek	AB10550	0.20	29/06/2012	MGA94Z55	553425	5387100	Howard Armitage	adjacenty to granitic outcrop
Gipps Creek	AB10551	0.50	29/06/2012	MGA94Z55	553450	5387100	Howard Armitage	
Gipps Creek	AB10552	0.50	29/06/2012	MGA94Z55	553475	5387100	Howard Armitage	edge of 10m cliff
Gipps Creek	AB10553	0.30	29/06/2012	MGA94Z55	553500	5387100	Howard Armitage	very steep rocky ridge
Gipps Creek	AB10554	0.35	29/06/2012	MGA94Z55	553525	5387100	Howard Armitage	
Gipps Creek	AB10555	0.35	29/06/2012	MGA94Z55	553550	5387100	Howard Armitage	
Gipps Creek	AB10556	0.30	29/06/2012	MGA94Z55	553575	5387100	Howard Armitage	
Gipps Creek	AB10557	0.25	29/06/2012	MGA94Z55	553600	5387100	Howard Armitage	
Gipps Creek	AB10558	0.35	29/06/2012	MGA94Z55	553625	5387100	Howard Armitage	
Gipps Creek	AB10559	0.30	29/06/2012	MGA94Z55	553650	5387100	Howard Armitage	
Gipps Creek	AB10561	0.25	29/06/2012	MGA94Z55	553675	5387100	Howard Armitage	
Gipps Creek	AB10562	0.25	29/06/2012	MGA94Z55	553700	5387100	Howard Armitage	
Gipps Creek	AB10563	0.25	29/06/2012	MGA94Z55	553725	5387100	Howard Armitage	rocky site
Gipps Creek	AB10564	0.25	29/06/2012	MGA94Z55	553750	5387100	Howard Armitage	rocky site
Gipps Creek	AB10565	0.25	29/06/2012	MGA94Z55	553375	5387000	Howard Armitage	
Gipps Creek	AB10566	0.40	29/06/2012	MGA94Z55	553400	5387000	Howard Armitage	
Gipps Creek	AB10567	0.30	29/06/2012	MGA94Z55	553425	5387000	Howard Armitage	
Gipps Creek	AB10568	0.25	29/06/2012	MGA94Z55	553450	5387000	Howard Armitage	base of granite outcrop, high organic content
Gipps Creek	AB10569	0.40	29/06/2012	MGA94Z55	553475	5387000	Howard Armitage	bank on W side, bottom of gorge
Gipps Creek	AB10570	0.25	29/06/2012	MGA94Z55	553507	5387000	Howard Armitage	top edge of 30m cliff
Gipps Creek	AB10571	0.25	29/06/2012	MGA94Z55	553525	5387000	Howard Armitage	
Gipps Creek	AB10572	0.40	29/06/2012	MGA94Z55	553550	5387000	Howard Armitage	
Gipps Creek	AB10573	0.35	29/06/2012	MGA94Z55	553575	5387000	Howard Armitage	
Gipps Creek	AB10574	0.30	29/06/2012	MGA94Z55	553600	5387000	Howard Armitage	
Gipps Creek	AB10575	0.45	29/06/2012	MGA94Z55	553625	5387000	Howard Armitage	
Gipps Creek	AB10576	0.40	29/06/2012	MGA94Z55	553650	5387000	Howard Armitage	
Gipps Creek	AB10577	0.40	29/06/2012	MGA94Z55	553675	5387000	Howard Armitage	
Gipps Creek	AB10578	0.30	29/06/2012	MGA94Z55	553700	5387000	Howard Armitage	
Gipps Creek	AB10579	0.30	29/06/2012	MGA94Z55	553725	5387000	Howard Armitage	
Gipps Creek	AB10580	0.25	29/06/2012	MGA94Z55	553750	5387000	Howard Armitage	
Gipps Creek	AB10581	0.45	30/06/2012	MGA94Z55	553900	5386200	Howard Armitage	coarse sandy soil
Triabunna	AB10582	0.30	30/06/2012	MGA94Z55	553925	5386200	Howard Armitage	feldspar crystals up to 4cm in grnaite float
Triabunna	AB10583	0.30	30/06/2012	MGA94Z55	553950	5386200	Howard Armitage	large granite outcrop 5m S
Triabunna	AB10584	0.20	30/06/2012	MGA94Z55	553975	5386200	Howard Armitage	
Triabunna	AB10585	0.30	30/06/2012	MGA94Z55	554000	5386200	Howard Armitage	
Triabunna	AB10586	0.30	30/06/2012	MGA94Z55	554025	5386200	Howard Armitage	
Triabunna	AB10587	0.30	30/06/2012	MGA94Z55	554050	5386200	Howard Armitage	black tourmaline in rock chips from hole
Triabunna	AB10588	0.35	30/06/2012	MGA94Z55	554075	5386200	Howard Armitage	rock scree

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PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Triabunna	AB10589	0.50	30/06/2012	MGA94Z55	554100	5386200	Howard Armitage	
Triabunna	AB10590	0.30	30/06/2012	MGA94Z55	554125	5386200	Howard Armitage	
Triabunna	AB10591	0.40	30/06/2012	MGA94Z55	554150	5386200	Howard Armitage	
Triabunna	AB10592	0.34	30/06/2012	MGA94Z55	554175	5386200	Howard Armitage	
Triabunna	AB10593	0.50	30/06/2012	MGA94Z55	554200	5386200	Howard Armitage	heavy rock scree
Triabunna	AB10594	0.35	30/06/2012	MGA94Z55	554235	5386200	Howard Armitage	large boulder scree, sample moved
Triabunna	AB10595	0.30	30/06/2012	MGA94Z55	554260	5386200	Howard Armitage	rock scree, sample moved
Triabunna	AB10596	0.30	30/06/2012	MGA94Z55	554275	5386200	Howard Armitage	
Triabunna	AB10597	0.30	30/06/2012	MGA94Z55	554300	5386200	Howard Armitage	
Triabunna	AB10598	0.40	01/07/2012	MGA94Z55	553850	5386100	Howard Armitage	clayey, gravelly sample, mixed sst/granite float
Triabunna	AB10599	0.50	01/07/2012	MGA94Z55	553875	5386100	Howard Armitage	
Triabunna	AB10601	0.50	01/07/2012	MGA94Z55	553900	5386100	Howard Armitage	orange sandy material
Triabunna	AB10602	0.40	01/07/2012	MGA94Z55	553925	5386100	Howard Armitage	greyish coarse sand
Triabunna	AB10603	0.35	01/07/2012	MGA94Z55	553950	5386100	Howard Armitage	
Triabunna	AB10604	0.45	01/07/2012	MGA94Z55	553975	5386100	Howard Armitage	
Triabunna	AB10605	0.50	01/07/2012	MGA94Z55	554000	5386100	Howard Armitage	
Triabunna	AB10606	0.25	01/07/2012	MGA94Z55	554025	5386100	Howard Armitage	below granite outcrop
Triabunna	AB10607	0.35	01/07/2012	MGA94Z55	554050	5386100	Howard Armitage	rock scree
Triabunna	AB10608	0.45	01/07/2012	MGA94Z55	554075	5386100	Howard Armitage	big rock scree, very difficult site
Triabunna	AB10609	0.35	01/07/2012	MGA94Z55	554100	5386100	Howard Armitage	
Triabunna	AB10610	0.25	01/07/2012	MGA94Z55	554125	5386100	Howard Armitage	granite slab - hallow sample
Triabunna	AB10611	0.30	01/07/2012	MGA94Z55	554150	5386100	Howard Armitage	granite slab - hallow sample
Triabunna	AB10612	0.35	01/07/2012	MGA94Z55	554175	5386100	Howard Armitage	part clay, fine gravel soil, rock scree
Triabunna	AB10613	0.25	01/07/2012	MGA94Z55	554200	5386100	Howard Armitage	granite slab
Triabunna	AB10614	0.25	01/07/2012	MGA94Z55	554225	5386100	Howard Armitage	boulder scree
Triabunna	AB10615	0.30	01/07/2012	MGA94Z55	554250	5386100	Howard Armitage	
Triabunna	AB10616	0.35	01/07/2012	MGA94Z55	554275	5386100	Howard Armitage	old claim marker nearby
Triabunna	AB10617	0.40	01/07/2012	MGA94Z55	554300	5386100	Howard Armitage	
Triabunna	AB10618	0.50	01/07/2012	MGA94Z55	553925	5386000	Howard Armitage	sst fragments in hole
Triabunna	AB10619	0.40	01/07/2012	MGA94Z55	553950	5386000	Howard Armitage	brown clayey gritty soil
Triabunna	AB10620	0.40	01/07/2012	MGA94Z55	553975	5386000	Howard Armitage	sandy soil
Triabunna	AB10621	0.25	01/07/2012	MGA94Z55	554000	5386000	Howard Armitage	yellow clay soil
Triabunna	AB10622	0.30	01/07/2012	MGA94Z55	554025	5386000	Howard Armitage	sandy gritty soil
Triabunna	AB10623	0.35	01/07/2012	MGA94Z55	554050	5386000	Howard Armitage	
Triabunna	AB10624	0.30	01/07/2012	MGA94Z55	554075	5386000	Howard Armitage	
Triabunna	AB10625	0.40	01/07/2012	MGA94Z55	554100	5386000	Howard Armitage	
Triabunna	AB10626	0.35	01/07/2012	MGA94Z55	554125	5386000	Howard Armitage	
Triabunna	AB10627	0.35	01/07/2012	MGA94Z55	554150	5386000	Howard Armitage	
Triabunna	AB10628	0.30	01/07/2012	MGA94Z55	554175	5386000	Howard Armitage	
Triabunna	AB10629	0.45	01/07/2012	MGA94Z55	554200	5386000	Howard Armitage	
Triabunna	AB10630	0.30	01/07/2012	MGA94Z55	554225	5386000	Howard Armitage	

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Triabunna	AB10631	0.40	01/07/2012	MGA94Z55	554250	5386000	Howard Armitage	granite slab, part organic soil
Triabunna	AB10632	0.25	01/07/2012	MGA94Z55	554275	5386000	Howard Armitage	big granite slab
Triabunna	AB10633	0.30	01/07/2012	MGA94Z55	554300	5386000	Howard Armitage	granite outcrop
Triabunna	AB10634	0.30	01/07/2012	MGA94Z55	554325	5386000	Howard Armitage	
Triabunna	AB10635	0.25	01/07/2012	MGA94Z55	554350	5386000	Howard Armitage	
Triabunna	AB10636	0.35	01/07/2012	MGA94Z55	554375	5386000	Howard Armitage	
Triabunna	AB10637	0.35	02/07/2012	MGA94Z55	554000	5385900	Howard Armitage	sst outcrop 8m west
Triabunna	AB10638	0.40	02/07/2012	MGA94Z55	554025	5385900	Howard Armitage	gritty brown soil with clay
Triabunna	AB10639	0.50	02/07/2012	MGA94Z55	554050	5385900	Howard Armitage	mostly organic soil, gully
Triabunna	AB10641	0.50	02/07/2012	MGA94Z55	554075	5385900	Howard Armitage	
Triabunna	AB10642	0.35	02/07/2012	MGA94Z55	554100	5385900	Howard Armitage	high organic content
Triabunna	AB10643	0.25	02/07/2012	MGA94Z55	554125	5385900	Howard Armitage	adjacent to granitic outcrop
Triabunna	AB10644	0.20	02/07/2012	MGA94Z55	554150	5385900	Howard Armitage	
Triabunna	AB10645	0.30	02/07/2012	MGA94Z55	554175	5385900	Howard Armitage	adjacent to granitic outcrop
Triabunna	AB10646	0.30	02/07/2012	MGA94Z55	554200	5385900	Howard Armitage	
Triabunna	AB10647	0.50	02/07/2012	MGA94Z55	554225	5385900	Howard Armitage	
Triabunna	AB10648	0.30	02/07/2012	MGA94Z55	554250	5385900	Howard Armitage	
Triabunna	AB10649	0.30	02/07/2012	MGA94Z55	554275	5385900	Howard Armitage	base of granite slab
Triabunna	AB10650	0.30	02/07/2012	MGA94Z55	554300	5385900	Howard Armitage	
Triabunna	AB10651	0.25	02/07/2012	MGA94Z55	554325	5385900	Howard Armitage	
Triabunna	AB10652	0.50	02/07/2012	MGA94Z55	554350	5385900	Howard Armitage	
Triabunna	AB10653	0.35	02/07/2012	MGA94Z55	554375	5385900	Howard Armitage	
Triabunna	AB10654	0.45	03/07/2012	MGA94Z55	554075	5385800	Howard Armitage	ssl and sst float on surface
Triabunna	AB10655	0.40	03/07/2012	MGA94Z55	554100	5385800	Howard Armitage	
Triabunna	AB10656	0.35	03/07/2012	MGA94Z55	554125	5385800	Howard Armitage	yellowish clay with grey sms fragments
Triabunna	AB10657	0.50	03/07/2012	MGA94Z55	554150	5385800	Howard Armitage	
Triabunna	AB10658	0.30	03/07/2012	MGA94Z55	554175	5385800	Howard Armitage	
Triabunna	AB10659	0.30	03/07/2012	MGA94Z55	554200	5385800	Howard Armitage	granite outcrop amd scree
Triabunna	AB10660	0.30	03/07/2012	MGA94Z55	554225	5385800	Howard Armitage	granite outcrop amd scree
Triabunna	AB10661	0.45	03/07/2012	MGA94Z55	554250	5385800	Howard Armitage	
Triabunna	AB10662	0.30	03/07/2012	MGA94Z55	554275	5385800	Howard Armitage	
Triabunna	AB10663	0.40	03/07/2012	MGA94Z55	554300	5385800	Howard Armitage	
Triabunna	AB10664	0.35	03/07/2012	MGA94Z55	554325	5385800	Howard Armitage	clayey granite sand, granite scree
Triabunna	AB10665	0.40	03/07/2012	MGA94Z55	554350	5385800	Howard Armitage	
Triabunna	AB10666	0.40	03/07/2012	MGA94Z55	554375	5385800	Howard Armitage	
Triabunna	AB10667	0.40	03/07/2012	MGA94Z55	554400	5385800	Howard Armitage	
Cupola	AB10668	0.20	25/07/2012	MGA94Z55	560200	5390600	Howard Armitage	dolerite talus, orange brown soil
Cupola	AB10669	0.40	25/07/2012	MGA94Z55	560200	5390400	Howard Armitage	sst outcrop 5mNE, brown soil
Cupola	AB10670	0.35	25/07/2012	MGA94Z55	560200	5390200	Howard Armitage	yellow brown soil with sms fragments
Cupola	AB10671	0.35	25/07/2012	MGA94Z55	560200	5390000	Howard Armitage	granite float, yellow brown soil
Cupola	AB10672	0.40	25/07/2012	MGA94Z55	560200	5389800	Howard Armitage	yellow brown

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Cupola	AB10673	0.50	25/07/2012	MGA94Z55	560200	5389580	Howard Armitage	orange soil
Cupola	AB10674	0.40	25/07/2012	MGA94Z55	560200	5389400	Howard Armitage	brown sandy soil
Cupola	AB10675	0.50	25/07/2012	MGA94Z55	560200	5389200	Howard Armitage	orange brown, gravelly
Cupola	AB10676	0.50	25/07/2012	MGA94Z55	560200	5389000	Howard Armitage	orange brown, gravelly
Cupola	AB10677	0.40	25/07/2012	MGA94Z55	560200	5388800	Howard Armitage	orange brown, gravelly
Cupola	AB10678	0.40	26/07/2012	MGA94Z55	560400	5390600	Howard Armitage	dolerite talus, yellow brown clay
Cupola	AB10679	0.50	26/07/2012	MGA94Z55	560400	5390400	Howard Armitage	yellow brown mottled clay
Cupola	AB10680							STANDARD
Cupola	AB10681	0.40	26/07/2012	MGA94Z55	560400	5390200	Howard Armitage	yellow grey clay with qtz gravel
Cupola	AB10682	0.45	26/07/2012	MGA94Z55	560400	5390000	Howard Armitage	grey brown soil with qtz and shaley fragments
Cupola	AB10683	0.50	26/07/2012	MGA94Z55	560400	5389800	Howard Armitage	orange brown, shaley talus
Cupola	AB10684	0.35	26/07/2012	MGA94Z55	560400	5389600	Howard Armitage	orange brown with sst fragtments
Cupola	AB10685	0.45	26/07/2012	MGA94Z55	560415	5389400	Howard Armitage	dark brown, gravelly
Cupola	AB10686	0.40	26/07/2012	MGA94Z55	560400	5389200	Howard Armitage	orange brown with ssl fragments
Cupola	AB10687	0.40	26/07/2012	MGA94Z55	560400	5389000	Howard Armitage	grey brown gritty soil
Cupola	AB10688	0.35	26/07/2012	MGA94Z55	560400	5388800	Howard Armitage	grey brown gritty soil
Cupola	AB10689	0.30	26/07/2012	MGA94Z55	560400	5388600	Howard Armitage	lt orange brown clay ssl
Cupola	AB10690	0.40	26/07/2012	MGA94Z55	560400	5388400	Howard Armitage	old alluvial workings 5m S, coarse sand and clay
Cupola	AB10691	0.35	28/07/2012	MGA94Z55	560600	5390600	Howard Armitage	dolerite talus, dark brown soil
Cupola	AB10692	0.50	28/07/2012	MGA94Z55	560600	5390385	Howard Armitage	lt brown clay
Cupola	AB10693	0.40	28/07/2012	MGA94Z55	560600	5390200	Howard Armitage	yellow brown wet gravelly clay
Cupola	AB10694	0.45	28/07/2012	MGA94Z55	560620	5390000	Howard Armitage	grey brown with sst fragments
Cupola	AB10695	0.40	28/07/2012	MGA94Z55	560600	5389800	Howard Armitage	clayey red-brown with sst fragments
Cupola	AB10696	0.40	28/07/2012	MGA94Z55	560600	5389600	Howard Armitage	brown with sst and argillaceous fragments
Cupola	AB10697	0.40	28/07/2012	MGA94Z55	560600	5389400	Howard Armitage	brown with sst and argillaceous fragments
Cupola	AB10698	0.40	28/07/2012	MGA94Z55	560600	5389200	Howard Armitage	grey brown with sst fragments
Cupola	AB10699	0.50	28/07/2012	MGA94Z55	560600	5389000	Howard Armitage	lt orange silty soil with sst fragments
Cupola	AB10700	0.45	28/07/2012	MGA94Z55	560600	5388800	Howard Armitage	lt orange brown sandy silt
Cupola	AB10701	0.40	28/07/2012	MGA94Z55	560600	5388600	Howard Armitage	orange brown clayey silt
Cupola	AB10702	0.45	28/07/2012	MGA94Z55	560600	5388400	Howard Armitage	orange brown clayey silt
Cupola	AB10703	0.40	28/07/2012	MGA94Z55	560610	5388200	Howard Armitage	creek, orange brown with sst fragments
Cupola	AB10704	0.60	28/07/2012	MGA94Z55	560600	538800	Howard Armitage	orange brown coarse sand with clay and mica
Cupola	AB10705	0.45	28/07/2012	MGA94Z55	560600	5387800	Howard Armitage	orange brown coarse sand with clay and mica
Cupola	AB10706	0.30	29/07/2012	MGA94Z55	560800	5390800	Howard Armitage	dolerite talus, dark brown soil
Cupola	AB10707	0.45	29/07/2012	MGA94Z55	560800	5390600	Howard Armitage	dolerite talus, red brown soil
Cupola	AB10708	0.40	29/07/2012	MGA94Z55	560800	5390400	Howard Armitage	fine sandy yellow grey soil
Cupola	AB10709	0.45	29/07/2012	MGA94Z55	560800	5390200	Howard Armitage	new house site, mottled yellow grey clay
Cupola	AB10710	0.30	29/07/2012	MGA94Z55	560800	5390000	Howard Armitage	mottled orange brown clay
Cupola	AB10711	0.45	29/07/2012	MGA94Z55	560800	5389800	Howard Armitage	brown clay/silt with shale fragments
Cupola	AB10712	0.35	29/07/2012	MGA94Z55	560800	5389600	Howard Armitage	lt orange brown silt soil with ssl fragments
Cupola	AB10713	0.40	29/07/2012	MGA94Z55	560800	5389400	Howard Armitage	lt orange brown silt soil with ssl fragments

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Cupola	AB10714	0.50	29/07/2012	MGA94Z55	560800	5389200	Howard Armitage	lt orange brown silt soil with ssl and sst fragments
Cupola	AB10715	0.40	29/07/2012	MGA94Z55	560800	5389000	Howard Armitage	dark grey brown soil
Cupola	AB10716	0.40	29/07/2012	MGA94Z55	560800	5388800	Howard Armitage	orange brown clayey silt
Cupola	AB10717	0.35	29/07/2012	MGA94Z55	560800	5388600	Howard Armitage	lt brown silt soil
Cupola	AB10718	0.35	29/07/2012	MGA94Z55	560800	5388400	Howard Armitage	lt greyish silt soil with sst fragments
Cupola	AB10719	0.40	29/07/2012	MGA94Z55	560800	5388200	Howard Armitage	lt greyish silt soil with sst fragments
Cupola	AB10720							STANDARD
Cupola	AB10721	0.40	29/07/2012	MGA94Z55	560800	5388000	Howard Armitage	dk grey brown sandy soil
Cupola	AB10722	0.45	29/07/2012	MGA94Z55	560800	5387800	Howard Armitage	dk grey brown sandy soil and sst fragments
Cupola	AB10723	0.30	29/07/2012	MGA94Z55	560800	5387600	Howard Armitage	lt yellow brown clay with qtz grains and granite float
Cupola	AB10724	0.50	30/07/2012	MGA94Z55	561000	5391000	Howard Armitage	dolerite talus, black organic soil
Cupola	AB10725	0.60	30/07/2012	MGA94Z55	561000	5390800	Howard Armitage	dolerite talus, lt brown soil
Cupola	AB10726	0.50	30/07/2012	MGA94Z55	561035	5390610	Howard Armitage	orange brown silt
Cupola	AB10727	0.50	30/07/2012	MGA94Z55	561000	5390400	Howard Armitage	unworked site in alluvials, orange silt soil
Cupola	AB10728	0.15	30/07/2012	MGA94Z55	561000	5390200	Howard Armitage	grey brown silt soil with sst and ssl chips
Cupola	AB10729	0.25	30/07/2012	MGA94Z55	561000	5390000	Howard Armitage	grey brown silt soil with sst and ssl chips
Cupola	AB10730	0.30	30/07/2012	MGA94Z55	561000	5389800	Howard Armitage	grey brown silt soil with sst and ssl chips
Cupola	AB10731	0.25	30/07/2012	MGA94Z55	561000	5389600	Howard Armitage	yellow brown silt soils with ssl fragments
Cupola	AB10732	0.60	30/07/2012	MGA94Z55	561000	5389400	Howard Armitage	orangew brown soil with sst fragments
Cupola	AB10733	0.30	30/07/2012	MGA94Z55	561000	5389200	Howard Armitage	orange brown silt/clay with qtz and sst fragments
Cupola	AB10734	0.35	30/07/2012	MGA94Z55	561000	5389000	Howard Armitage	grey brown with sst fragments
Cupola	AB10735	0.50	30/07/2012	MGA94Z55	561000	5388000	Howard Armitage	lt orange brown with ssl and qtz fragments
Cupola	AB10736	0.30	30/07/2012	MGA94Z55	561000	5388600	Howard Armitage	orange brown clay with ssl and sst fragments
Cupola	AB10737	0.45	30/07/2012	MGA94Z55	561000	5388400	Howard Armitage	orange brown clay/silt with sst fragments
Cupola	AB10738	0.50	30/07/2012	MGA94Z55	561000	5388200	Howard Armitage	orange brown clay/silt with sst fragments
Cupola	AB10739	0.40	30/07/2012	MGA94Z55	561000	5388000	Howard Armitage	sandy grey brown soil with sst fragments
Cupola	AB10740	0.30	30/07/2012	MGA94Z55	561000	5387800	Howard Armitage	brown silt soil with sst and qtz fragments
Cupola	AB10741	0.30	30/07/2012	MGA94Z55	561000	5387600	Howard Armitage	fine sandy grey brown soil with sst fragments
Cupola	AB10742	0.45	30/07/2012	MGA94Z55	561000	5387400	Howard Armitage	beige brown sandy soil with sst and granite fragments
Cupola	AB10743	0.30	30/07/2012	MGA94Z55	561000	5387200	Howard Armitage	yellow clay with sand
Cupola	AB10744	0.50	30/07/2012	MGA94Z55	561000	5387000	Howard Armitage	prospecting trench E-W, orange clayey sand
Cupola	AB10745	0.40	30/07/2012	MGA94Z55	561000	5386800	Howard Armitage	orange clayey sand with round qtz gravel, alluvial workings nearby
Cupola	AB10746	0.30	31/07/2012	MGA94Z55	561200	5391000	Howard Armitage	dolerite talus, orange brown/brown soil
Cupola	AB10747	0.30	31/07/2012	MGA94Z55	561200	5390800	Howard Armitage	dolerite talus, lt orange brown clay
Cupola	AB10748	0.20	31/07/2012	MGA94Z55	561200	5390600	Howard Armitage	orange clay silt
Cupola	AB10749	0.10	31/07/2012	MGA94Z55	561200	5390400	Howard Armitage	crusher tailings
Cupola	AB10750	0.50	31/07/2012	MGA94Z55	561200	5390220	Howard Armitage	Storeys Creek bank, orange silt soil from bank
Cupola	AB10751	0.50	31/07/2012	MGA94Z55	561200	5390000	Howard Armitage	grey orange mottled silt soil from bank
Cupola	AB10752	0.60	31/07/2012	MGA94Z55	561200	5389800	Howard Armitage	grey orange mottled silt soil
Cupola	AB10753	0.35	31/07/2012	MGA94Z55	561200	5389600	Howard Armitage	lt brown silt soil witrh sst fragments
Cupola	AB10754	0.50	31/07/2012	MGA94Z55	561205	5389400	Howard Armitage	above sedimentary rock layer, red brown clay silt

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Cupola	AB10755	0.40	31/07/2012	MGA94Z55	561200	5389200	Howard Armitage	grey brown clay sand with sst fragments
Cupola	AB10756	0.35	31/07/2012	MGA94Z55	561200	5389000	Howard Armitage	orange brown clay silt with sst fragments
Cupola	AB10757	0.50	31/07/2012	MGA94Z55	561200	5388800	Howard Armitage	lt orange brown to brown clay silt with qtz and ssl fragments
Cupola	AB10758	0.35	31/07/2012	MGA94Z55	561200	5388600	Howard Armitage	lt brwon clay silt with sst fragmets
Cupola	AB10759	0.50	31/07/2012	MGA94Z55	561200	5388400	Howard Armitage	orange brown silt soil with ssl fragmenst
Cupola	AB10760							STANDARD
Cupola	AB10761	0.30	31/07/2012	MGA94Z55	561200	5388200	Howard Armitage	lt brown sandy silt with sst fragments
Cupola	AB10762	0.40	31/07/2012	MGA94Z55	561200	5388000	Howard Armitage	lt brown sandy silt with sst fragments
Cupola	AB10763	0.30	31/07/2012	MGA94Z55	561190	5387810	Howard Armitage	grey brown sandy
Cupola	AB10764	0.40	31/07/2012	MGA94Z55	561200	5387600	Howard Armitage	lt yellow grey brown silt soil
Cupola	AB10765	0.40	31/07/2012	MGA94Z55	561200	5387400	Howard Armitage	lt yellow orange silt soil with sst fragments
Cupola	AB10766	0.35	31/07/2012	MGA94Z55	561200	5387200	Howard Armitage	lt yellow orange clay silt with mica and sst fragments
Cupola	AB10767	0.30	31/07/2012	MGA94Z55	561200	5387000	Howard Armitage	yello brown/brown mottled clay with sst fragments
Cupola	AB10768	0.30	31/07/2012	MGA94Z55	561200	5386800	Howard Armitage	orange brown gravelly clay soil
Cupola	AB10769	0.45	03/08/2012	MGA94Z55	561400	5391000	Howard Armitage	orange/grey brown clay silt
Cupola	AB10770	0.40	03/08/2012	MGA94Z55	561400	5390800	Howard Armitage	yellow orange silt clay with ssl frags
Cupola	AB10771	0.35	03/08/2012	MGA94Z55	561400	5390600	Howard Armitage	gravelly orange clay silt
Cupola	AB10772	0.30	03/08/2012	MGA94Z55	561400	5390400	Howard Armitage	sst frags in grey sandy silt
Cupola	AB10773	0.30	03/08/2012	MGA94Z55	561400	5390200	Howard Armitage	sst frags in grey sandy silt
Cupola	AB10774	0.40	03/08/2012	MGA94Z55	561400	5390000	Howard Armitage	orange silt with sst frags
Cupola	AB10775	0.25	03/08/2012	MGA94Z55	561400	5389800	Howard Armitage	grey sandy silt with sst frags
Cupola	AB10776	0.20	03/08/2012	MGA94Z55	561400	5389600	Howard Armitage	lt brown-grey silt with sst frags
Cupola	AB10777	0.40	03/08/2012	MGA94Z55	561400	5389400	Howard Armitage	ornage brown silty soil with sst and ssl frags
Cupola	AB10778	0.35	03/08/2012	MGA94Z55	561400	5389200	Howard Armitage	lt orange brown silty soil with ssl frags
Cupola	AB10779	0.60	08/08/2012	MGA94Z55	561400	5389000	Howard Armitage	quaternary alluvium from E creek bank, orange grey mottled clay
Cupola	AB10780	0.45	08/08/2012	MGA94Z55	561400	5388800	Howard Armitage	lt brown silt soil with sst and qtz frags
Cupola	AB10781	0.30	08/08/2012	MGA94Z55	561400	5388600	Howard Armitage	grey bgrown clay silt with sst frags
Cupola	AB10782	0.45	08/08/2012	MGA94Z55	561400	5388400	Howard Armitage	lt orange brown clay silt with ssl frags
Cupola	AB10783	0.30	08/08/2012	MGA94Z55	561400	5388200	Howard Armitage	brown clay silt with ssl frags
Cupola	AB10784	0.35	08/08/2012	MGA94Z55	561400	5388000	Howard Armitage	grey sandy clay
Cupola	AB10785	0.30	08/08/2012	MGA94Z55	561400	5387800	Howard Armitage	orange sandy silt with sst frags
Cupola	AB10786	0.35	08/08/2012	MGA94Z55	561400	5387600	Howard Armitage	orange brown sandy silt with sst frags
Cupola	AB10787	0.35	08/08/2012	MGA94Z55	561400	5387400	Howard Armitage	orange brown silt soil with sst fragmenst
Cupola	AB10788	0.25	08/08/2012	MGA94Z55	561400	5387200	Howard Armitage	grey brown sandy silt with sst frags
Cupola	AB10789	0.35	08/08/2012	MGA94Z55	561400	5387000	Howard Armitage	lt cream brown sandy silt with sst frags
Cupola	AB10790	0.40	08/08/2012	MGA94Z55	561400	5386800	Howard Armitage	orange clay sand
Cupola	AB10791	0.25	09/08/2012	MGA94Z55	561600	5391000	Howard Armitage	pale orange brown clay soil with qtz and sst frags
Cupola	AB10792	0.50	09/08/2012	MGA94Z55	561600	5390800	Howard Armitage	grey brown to orange brown clay with ssl frags
Cupola	AB10793	0.25	09/08/2012	MGA94Z55	561600	5390600	Howard Armitage	orange to brown clay with glacier pebbles
Cupola	AB10794	0.35	09/08/2012	MGA94Z55	561600	5390400	Howard Armitage	gravelly orange clay
Cupola	AB10795	0.40	09/08/2012	MGA94Z55	561600	5390200	Howard Armitage	gravelly orange clay

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Cupola	AB10796	0.35	09/08/2012	MGA94Z55	561600	5390000	Howard Armitage	lt grey brown silt soil with ssl frags
Cupola	AB10797	0.35	09/08/2012	MGA94Z55	561600	5389800	Howard Armitage	orange brown clay
Cupola	AB10798	0.45	09/08/2012	MGA94Z55	561600	5389600	Howard Armitage	orange brown silt soil with sst frags
Cupola	AB10799	0.40	09/08/2012	MGA94Z55	561600	5389400	Howard Armitage	orange brown silt clay with ssl frags
Cupola	AB10800							STANDARD
Cupola	AB10801	0.35	09/08/2012	MGA94Z55	561600	5389200	Howard Armitage	yellow brown silty clay
Cupola	AB10802	0.40	09/08/2012	MGA94Z55	561600	5389000	Howard Armitage	yellow brown sandy soil
Cupola	AB10803	0.30	09/08/2012	MGA94Z55	561600	5388800	Howard Armitage	grey brown clay silt
Cupola	AB10804	0.50	09/08/2012	MGA94Z55	561600	5388620	Howard Armitage	Creek bank
Cupola	AB10805	0.40	09/08/2012	MGA94Z55	561600	5388390	Howard Armitage	Creek bank, yellow grey clay silt
Cupola	AB10806	0.40	09/08/2012	MGA94Z55	561600	5388200	Howard Armitage	grey clay silt
Cupola	AB10807	0.50	09/08/2012	MGA94Z55	561600	5388000	Howard Armitage	yellow grey to grey silty clay
Cupola	AB10808	0.35	09/08/2012	MGA94Z55	561600	5387800	Howard Armitage	yellow grey silt soil with sst and ssl frags
Cupola	AB10809	0.35	09/08/2012	MGA94Z55	561600	5387600	Howard Armitage	chocolate brown silt soil with hard sst frags
Cupola	AB10810	0.25	09/08/2012	MGA94Z55	561600	5387400	Howard Armitage	chocolate brown silt soil with ssl frags
Cupola	AB10811	0.40	09/08/2012	MGA94Z55	561600	5387200	Howard Armitage	orange brown silt soil
Cupola	AB10812	0.60	09/08/2012	MGA94Z55	561600	5387000	Howard Armitage	grey brown silt from creek bank
Cupola	AB10813	0.35	09/08/2012	MGA94Z55	561600	5386800	Howard Armitage	lt yellow brown silt soil with sst frags
Cupola	AB10814	0.30	10/08/2012	MGA94Z55	561800	5391000	Howard Armitage	pale orange grey clay
Cupola	AB10815	0.20	10/08/2012	MGA94Z55	561800	5390800	Howard Armitage	orange silt soil with ssl frags
Cupola	AB10816	0.30	10/08/2012	MGA94Z55	561800	5390600	Howard Armitage	ssl frags in orange grey sandy silt
Cupola	AB10817	0.30	10/08/2012	MGA94Z55	561800	5390400	Howard Armitage	lt orange clay silt
Cupola	AB10818	0.30	10/08/2012	MGA94Z55	561800	5390200	Howard Armitage	yellow brown silt soil
Cupola	AB10819	0.40	10/08/2012	MGA94Z55	561800	5398000	Howard Armitage	ssl frags in yellow brown silt soil
Cupola	AB10820	0.35	10/08/2012	MGA94Z55	561800	5389800	Howard Armitage	yellow grey sandy silt soil with ssl frags
Cupola	AB10821	0.30	10/08/2012	MGA94Z55	561800	5389600	Howard Armitage	orange brown clay silt with ssl fragments
Cupola	AB10822	0.40	10/08/2012	MGA94Z55	561800	5389400	Howard Armitage	orange brown clay silt with ssl fragments
Cupola	AB10823	0.35	10/08/2012	MGA94Z55	561800	5389200	Howard Armitage	orange brown clay silt with ssl fragments
Cupola	AB10824	0.35	10/08/2012	MGA94Z55	561800	5389000	Howard Armitage	pale orange brown silt with ssl fragments
Cupola	AB10825	0.40	10/08/2012	MGA94Z55	561800	5388800	Howard Armitage	lt brown silt soil with ssl frags
Cupola	AB10826	0.50	10/08/2012	MGA94Z55	561800	5388610	Howard Armitage	orange brown clay silt
Cupola	AB10827	0.50	10/08/2012	MGA94Z55	561800	5388400	Howard Armitage	yellow grey clay
Cupola	AB10828	0.30	10/08/2012	MGA94Z55	561800	5388200	Howard Armitage	yellow grey clay
Cupola	AB10829	0.30	10/08/2012	MGA94Z55	561800	5388000	Howard Armitage	surface sst and ssl float, grey brown silt soil
Cupola	AB10830							not collected
Cupola	AB10831							not collected
Cupola	AB10832							not collected
Cupola	AB10833							not collected
Cupola	AB10834	0.30	12/08/2012	MGA94Z55	562000	5391000	Howard Armitage	oranger brown clay silt
Cupola	AB10835	0.40	12/08/2012	MGA94Z55	562000	5390800	Howard Armitage	ssl frags in dk grey brown soil
Cupola	AB10836	0.35	12/08/2012	MGA94Z55	562000	5390600	Howard Armitage	orange grey brown gritty clay with sst frags

Appendix 1 - Soil sample locations

PROJECT	HOLEID	DEPTH	SAMPDATE	ORIGGRIDID	ORIGEAST	ORIGNORTH	SAMPLER	COMMENTS
Cupola	AB10837	0.25	12/08/2012	MGA94Z55	562000	5390400	Howard Armitage	orange brown clay silt with ssl frags
Cupola	AB10838	0.35	12/08/2012	MGA94Z55	562000	5390200	Howard Armitage	yellow brown clay soil
Cupola	AB10839	0.35	12/08/2012	MGA94Z55	562000	5390000	Howard Armitage	yellow brown clay with ssl frags
Cupola	AB10840							STANDARD
Cupola	AB10841	0.40	12/08/2012	MGA94Z55	562000	5389800	Howard Armitage	pale orange grey brown clay soil
Cupola	AB10842	0.25	12/08/2012	MGA94Z55	562000	5389600	Howard Armitage	lt brown clay silt with ssl frags
Cupola	AB10843	0.25	12/08/2012	MGA94Z55	562000	5389400	Howard Armitage	lt brown clay silt with ssl frags
Cupola	AB10844	0.35	12/08/2012	MGA94Z55	562000	5389200	Howard Armitage	qtz and ssl frags in grey brown silt
Cupola	AB10845	0.30	12/08/2012	MGA94Z55	562000	5389000	Howard Armitage	orange grey to brown clay silt with ssl frags
Cupola	AB10846	0.30	12/08/2012	MGA94Z55	562000	5388800	Howard Armitage	orange grey brown clay silt
Cupola	AB10847							not collected
Cupola	AB10848							not collected
Cupola	AB10849							not collected
Cupola	AB10850							not collected
Cupola	AB10851							not collected
Cupola	AB10852							not collected
Cupola	AB10853							not collected
Cupola	AB10854							not collected
Cupola	AB10855	0.25	13/08/2012	MGA94Z55	562200	5391000	Howard Armitage	orange brown clay silt with ssl frags
Cupola	AB10856	0.30	13/08/2012	MGA94Z55	562200	5390800	Howard Armitage	yelow brown silt with qtz and ssl frags
Cupola	AB10857	0.30	13/08/2012	MGA94Z55	562200	5390600	Howard Armitage	yellow grey silt soil with ssl frags
Cupola	AB10858	0.30	13/08/2012	MGA94Z55	562200	5390400	Howard Armitage	yellow grey silt soil with ssl frags
Cupola	AB10859	0.40	13/08/2012	MGA94Z55	562200	5390200	Howard Armitage	grey brown gritty silt to sst and ssl frags
Cupola	AB10860	0.40	13/08/2012	MGA94Z55	562200	5390000	Howard Armitage	orange brown silt soil with ssl frags
Cupola	AB10861	0.35	13/08/2012	MGA94Z55	562200	5389800	Howard Armitage	yellow brown silt with ssl frags
Cupola	AB10862	0.35	13/08/2012	MGA94Z55	562200	5389600	Howard Armitage	yellow grey silt soil with ssl frags
Cupola	AB10863	0.30	13/08/2012	MGA94Z55	562200	5389388	Howard Armitage	orange brown clay silt

APPENDIX 2
2012 Ground Magnetic Survey Operations and Logistics Report, by Modern Mag

2012 Ground Magnetic Survey

Within the Gipps Creek and Anomaly 370 Projects, Tasmania

Operations and logistics report prepared by Modern Mag ground magnetic surveys.

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Tables

Figures

1. General Information

1.1 Introduction

In April 2012, Modern Mag was awarded the contract to conduct a ground magnetic survey for TNT Mines Limited within the Anomaly 370 and Gipps Creek projects in Tasmania. This report summarises the survey details, procedures and equipment used by Modern Mag in the acquisition, verification and processing of the magnetic data. Below is a summary of the survey details:

Client	TNT Mines Limited
Modern Mag project number	1005
Survey Areas	Anomaly 370: 5 km north-northwest of Zeehan, Tasmania. Gipps Creek: 16 km north-northwest of Avoca, Tasmania.
Field base	Avoca and Zeehan
Mobilisaton	Monday 7th-Tuesday 8th May, 2012.
Production	8th – 10th and 12th -13th May, 2012
Demobilisation	Monday 14th - Tuesday 15th May 2012

Table 1. Survey details

1.2 Survey Summary

Midday Monday 7th May 2012 the survey crew member mobilised from Horsham to the field base in Avoca. The surveys were conducted between the 8th and 13th of May. The operator returned to Horsham on Tuesday 15th May 2012.

Modern Mag surveyed two grids in this field sortie. The Avoca grid was a test grid without cut lines in a forest. The Zeehan grid was also in dense forest but the lines had been cleared/cut prior to the survey.

Preliminary data checks were performed in the field. Data acquisition was monitored during the survey and digital data was sent each day to the Modern Mag office in Melbourne.

1.3 Survey Personnel

The following Modern Mag personnel were involved with this project:

Title	Name
Project Manager	Justin Ward
Field Manager	Nathan Ward

Table 2. Survey personnel

1.4 Survey Equipment and Specifications

The survey equipment used and specifications were as follows:

Roving magnetometer	GEM GSMP-35 (Sampled at 1 Hz)
Base magnetometer	GEM GSM-19 (Sampled at 5 second intervals)
Station spacing	~1m
Line spacing	100m and 200m
Line direction	90° and 270° (E-W)

Table 3. Survey equipment and specifications

All data was surveyed and acquired in GDA94, MGA 55 south.

1.5 Survey Grid Specifications

The survey grid specifications were as follows:

Grid	Line Spacing	Line Direction	Line-km
Gipps Creek	100m	90^o and 270^o	16.4
Anomaly 370	200m	90^o and 270^o	13.4

Table 4. Survey grid specifications

1.6 Survey location

The location of the grids are shown in the following two figures:

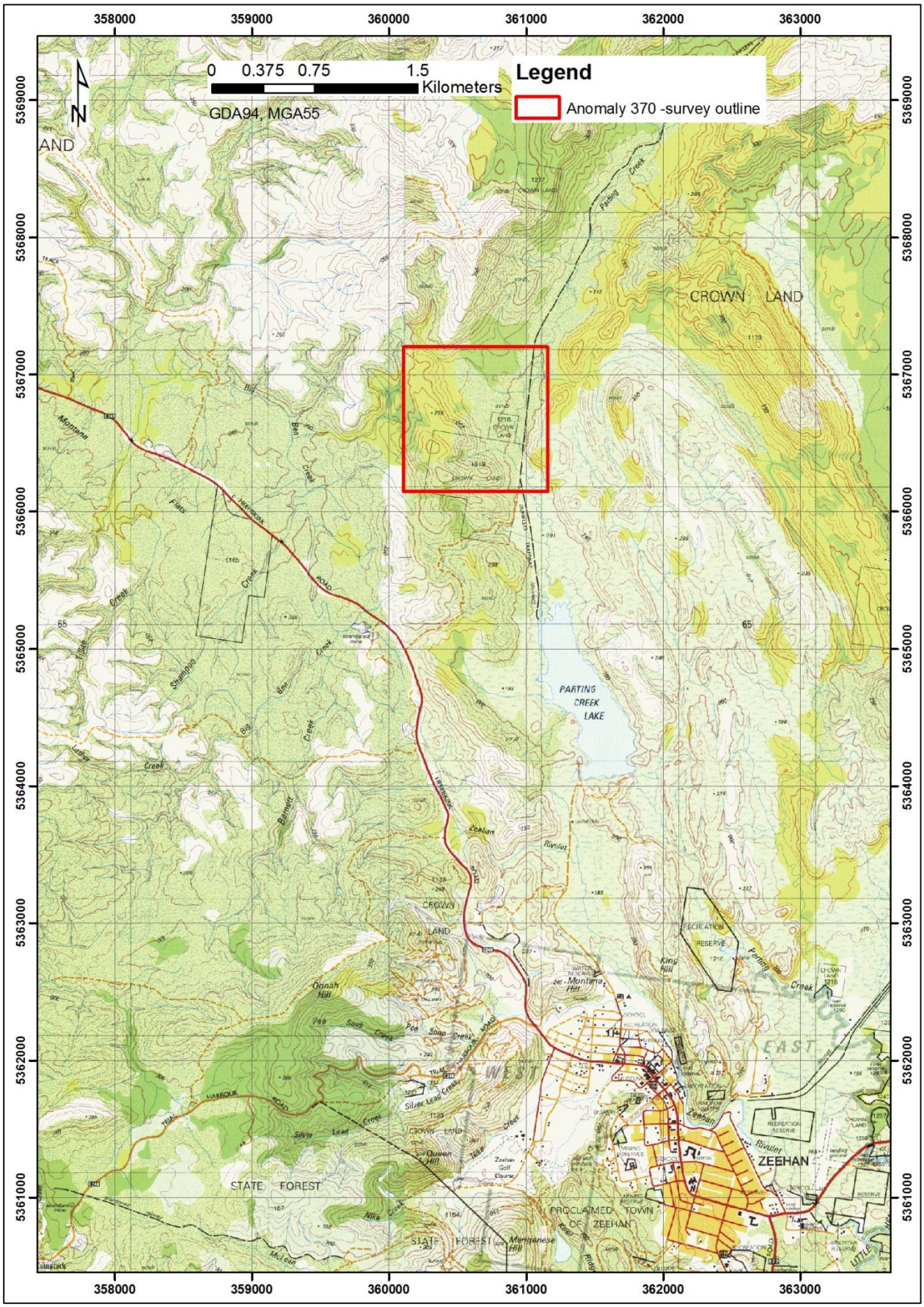

Figure 1. Anomaly 370 survey location

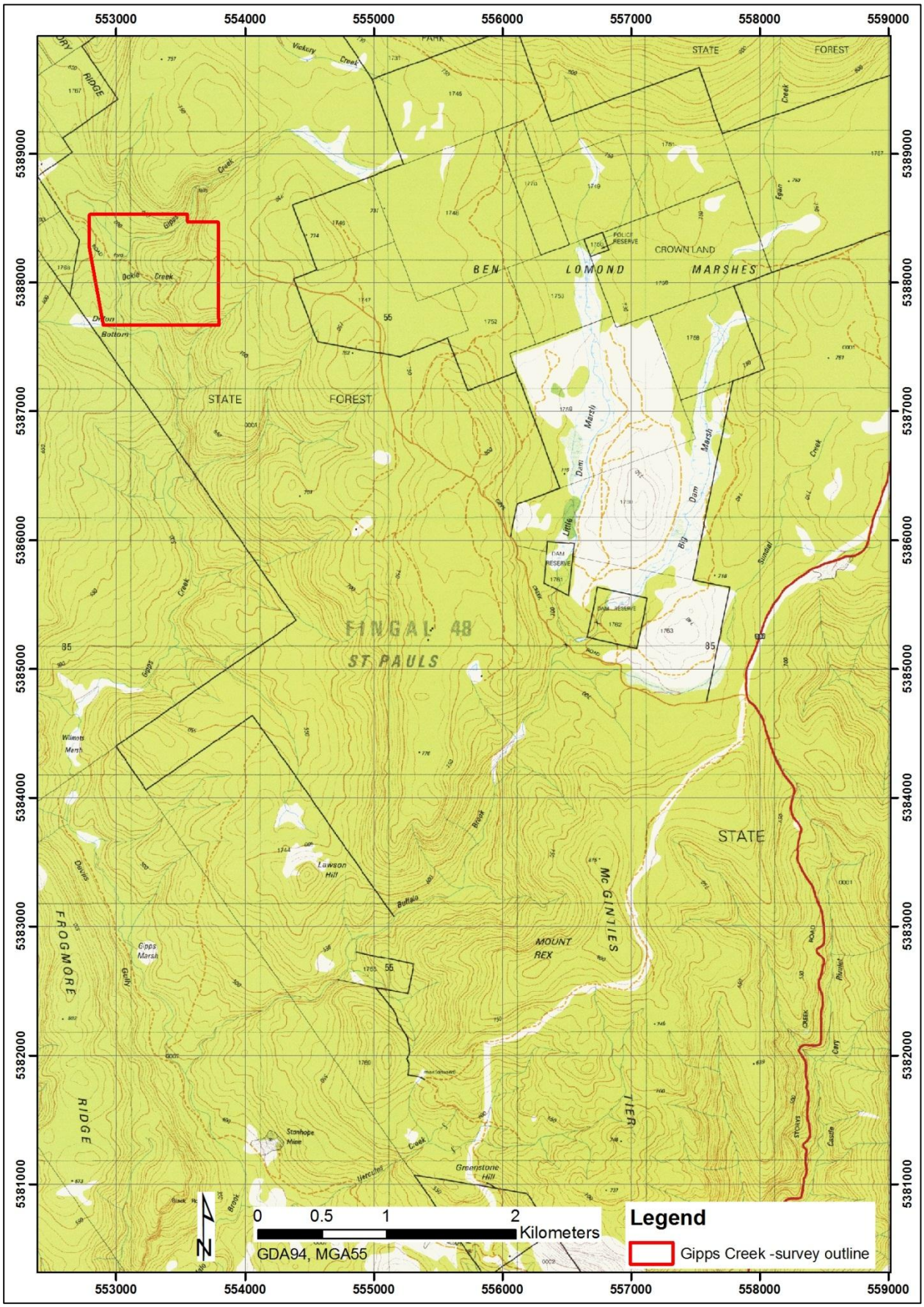

Figure 2. Gipps Creek survey location

2. Production Report

The production was as follows:

Date	Day	Mob/ Demob	Standby	Production	Grid	Comments
7/5/2012	Monday	0.50				Mob from Horsham to Melbourne
8/5/2012	Tuesday	0.75		0.25	Gipps Creek	Mob from Devonport to Avoca. Survey started.
9/5/2012	Wednesday			1.00	Gipps Creek	Rugged terrain in NE of grid.
10/5/2012	Thursday			1.00	Gipps Creek	Rugged terrain and thick forest near creeks.
11/5/2012	Friday	0.75	0.25			Travel to Zeehan. Rain on arrival.
12/5/2012	Saturday		0.75	0.25	Anomaly 370	Rain. Creeks impassable.
13/5/2012	Sunday			1.00	Anomaly 370	Light rain at times did not break canopy.
14/5/2012	Monday	1.00				Demob from Zeehan to Melbourne (Spirit of TAS)
15/5/2012	Tuesday	0.50				Demob from Melbourne to Horsham
		3.5	**1.0**	**3.5**	**TOTALS**	

Table 5. Production report

Rain delayed the surveys several times. The GPS lost lock regularly under the thick tree canopy at anomaly 370, and this slowed production and made processing difficult. There were no environmental or health and safety accidents/incidents. However the vegetation was very lush and the ground was slippery. The operator slipped and fell several times without injury. It is recommended that future ground surveys be conducted in the summer time when the ground is dryer and the creek crossings easier.

Future surveys in this rugged terrains should consider using more robust Overhauser magnetometers. These magnetometers are lightweight and more suited to rough terrain where the sensor cannot always be kept in the same orientation along a line. While these surveys utilised continuous sampling (1Hz), discrete sampling could be considered in future surveys to further improve data quality in rugged terrain.

3. Final magnetic data processing

The following processes were performed on the data:

3.1 Diurnal processing

The raw diurnal data was checked and corrected for spikes. This has not degraded the data at all since the base station was sampled rapidly at 0.2Hz.

3.2 Diurnal correction to the magnetic data

The synchronized digital diurnal data collected by the base station was first subtracted from the corresponding ground magnetic readings and the mean diurnal value added back to the channel. DC shifts that appear within line base station values (*Mag_base*) are due to repeating sections of lines. The diurnally corrected channel is *Mag_corr*. The mean diurnal values for the grids were as follows:

Grid	Mean diurnal value
Gipps Creek	60366.27 nT
Anomaly 370	61805.49 nT

Table 6. Base values for TMI grids

3.3 Data editing and low pass line filter

The *Mag_corr* channel has been manually edited to remove signal dropouts and values where the sensor lost lock. The new edited channel has been called *Mag_corr_edit*. These values have been dummied. However the sensor lock (*li*) channel could be used as a mask to perform the same operation semi-automatically.
Easting and northing values with GPS dropouts have been linearly interpolated. No magnetic values have been interpolated.
A non linear filter with a width of 5 readings was applied to the corrected data (*mag_nfilt*). The final mag channel (*mag_final*) has a 9 point (~9m) low pass filter applied to it.

The Gipps Creek grid contains some lines that were repeated due to noise in the data. These lines have been given the suffix *.1

The anomaly 370 grid contains two sets of lines. One set has been traversed from east to west and the other from west to east. The latter lines have been assigned test status (prefix "s").

3.4 Gridding

The grids have been interpolated with a cell spacing equivalent to $1/4^{th}$ of the line spacing. The minimum curvature algorithm was used to interpolate the line data into a grid.

The *Mag_final* channel in the database has been gridded and presented as *TMI grids. The sun shading inclination and declination are 45^{o}.

3.5 Results

The data quality for the Gipps Creek survey was adversely affected by the extremely rugged terrain, thick vegetation and lack of cut lines. Nonetheless there are interesting geological features in this dataset. The operator reported numerous "old timer" workings in the area surveyed. These diggings run N-S along the western side of the grid, and can more easily be seen in the TMI profile data. This area would best be surveyed in future from the air, or alternatively by using a two man crew with a GSM-19W Overhauser magnetometer. This rugged, lightweight magnetometer would be more suited to this terrain. Future surveys should consider discrete (stop/start) rather than continuous sampling to improve data quality. Continuous sampling and movement of the sensor in rugged terrain degrades the data quality.

The data quality within the anomaly 370 grid was much improved by the presence of cut lines. Given that the operator had to essentially walk every line twice in order to get back to the central cut base line, the entire grid has been surveyed twice, once in each direction. The repeatability of the data is very good, showing that the GSMP-35 has a high absolute accuracy. However the forest canopy at this grid was extremely dense and GPS signal dropouts where common. These dropouts have been linearly interpolated, but some "wander" from the straight cut line can still be seen before the dropout. There are clear geological features in this grid.

4. Deliverables

The data has been provided in the following formats:

Point data:

- Grid corner points have been delivered as *.ply text files.

Line data:

- Geosoft database
- Ascii *.xyz file with file header and line numbers. This is a valid Geosoft XYZ file.
- Grid outlines have been delivered as ArcMap shape, Mapinfo TAB and DXF files.
- Survey path has been delivered as ArcMap shape, Mapinfo TAB and DXF files.

Grid data:

- Geosoft grids
- ERMapper grids
- Mapinfo Tiffs
- ArcMap Tiffs

Maps:

Geosoft maps are the recommended way to view the data from this survey. These maps can be opened with the free Geosoft viewer, or within ArcMap or Mapinfo using the free Geosoft plugins for these products. All these free Geosoft products are included on the data disk attached at the rear of this report.

The data disk in the rear of this report contains the data above as well as a digital copy of this report.

Contractor information

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Grid Plots

Plots of the Gipps Creek and Anomaly 370 grids are included on the following pages.

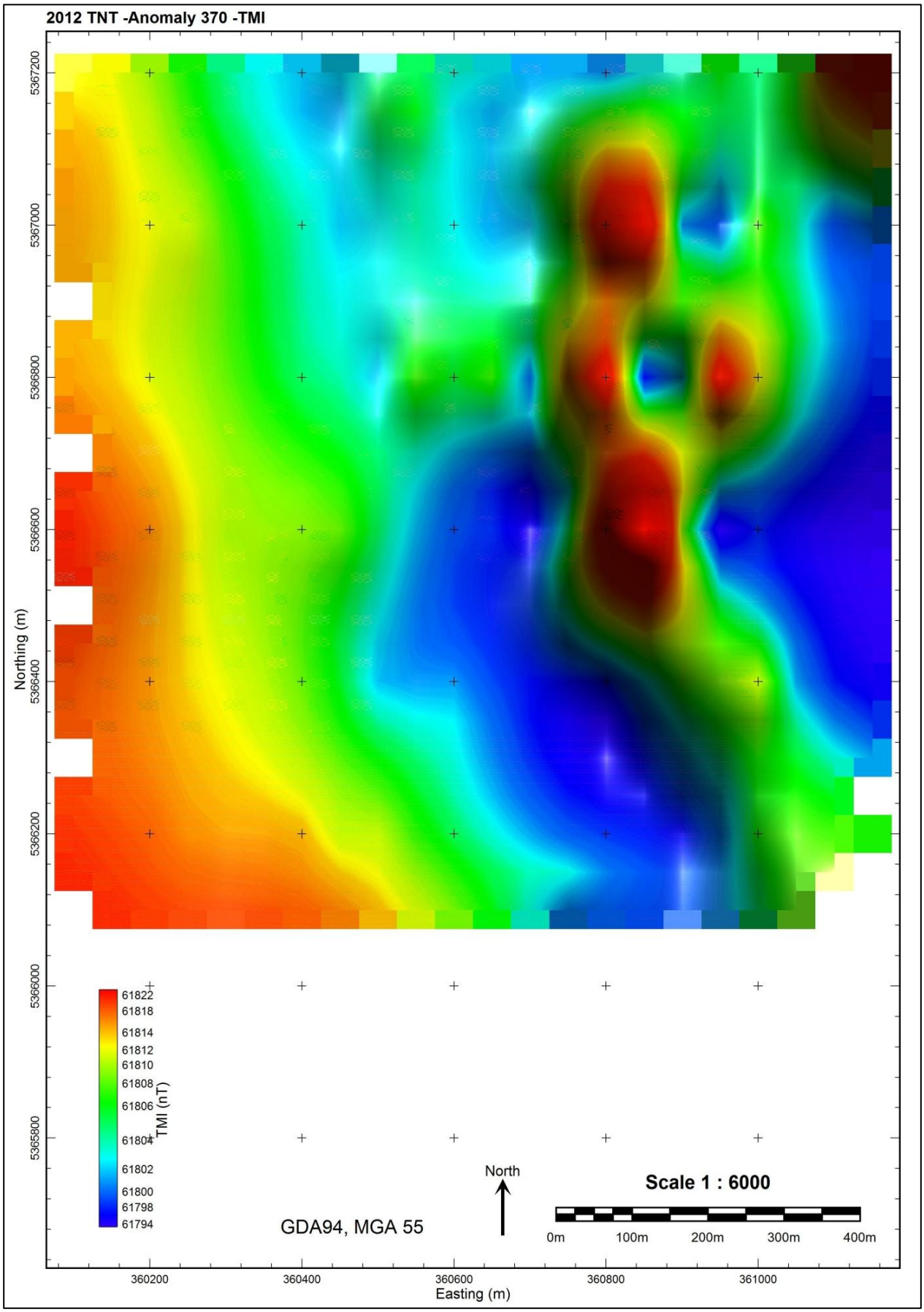

Figure 3. Anomaly 370 Total Magnetic Intensity (TMI)

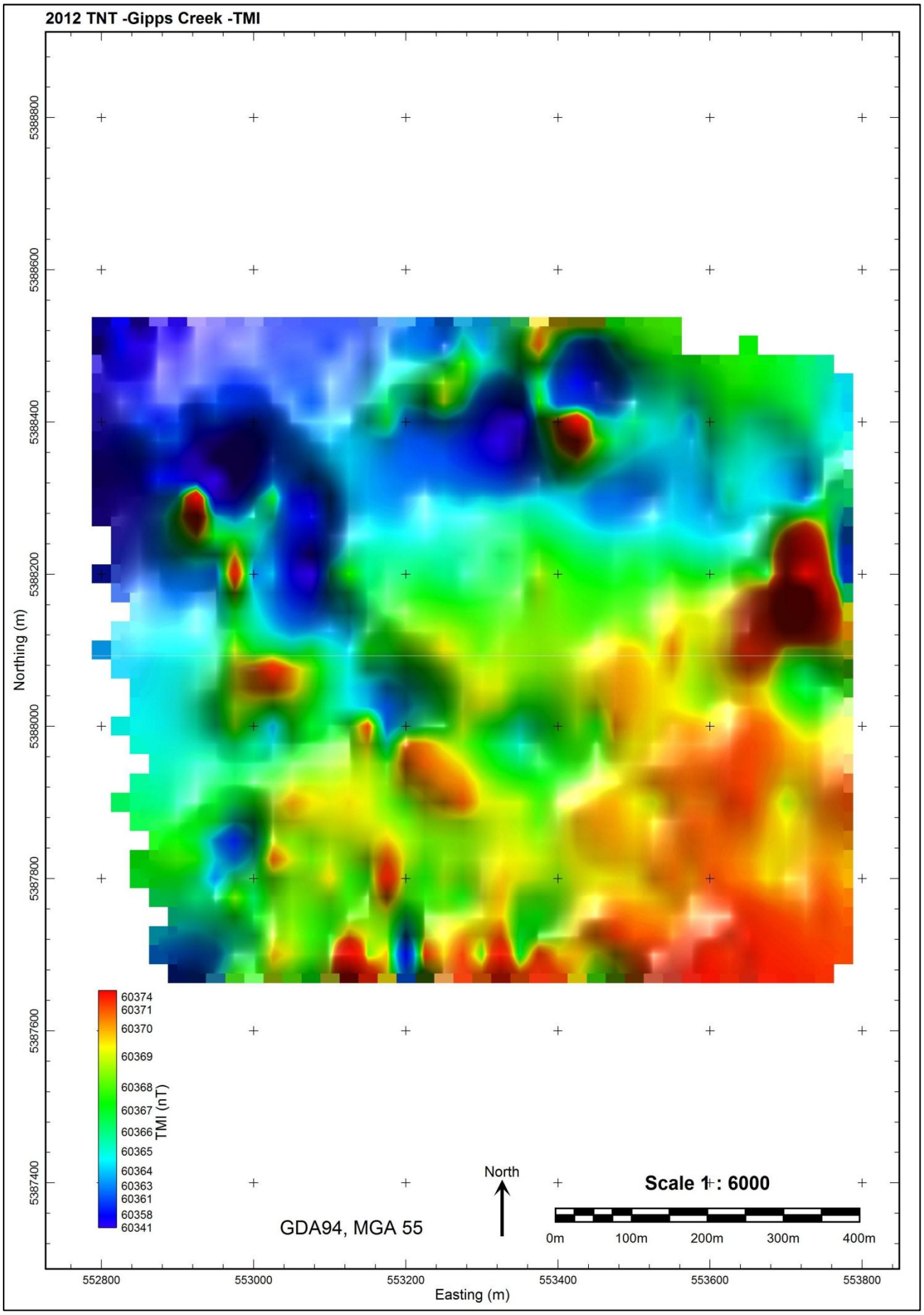

Figure 4. Gipps Creek Total Magnetic Intensity (TMI)