



**Post Office Creek
Exploration Licence 33/2007**

Annual Report for the period 28/08/2010 to 28/08/2011

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1 Summary

Exploration Licence 33/2007 located in western Tasmania is prospective for tin, tungsten and magnetite skarns within meta-sedimentary rocks adjacent to the Meredith Granite and greisen-style Sn and W mineralisation within the Meredith Granite. Historic exploration indicates potential for exposed Sn and W greisens, but there has been enough work done to indicate that any skarns present within the licence area are not likely to reach the surface in any significant way.

Venture's regional exploration activities in 2010-2011 were focussed on the Supergrunt stream sediment anomaly (222 ppm Sn, 222 ppm W, 730 ppm As, 245 ppm Cu, 410 ppm Zn and 55 ppm Pb) in the southern part of EL24/2008. A helicopter supported programme of geological mapping, 26 stream sediment samples and 189 soil samples was conducted in the Supergrunt area. This work suggests only very weak tourmaline greisen development in the Supergrunt area and it is highly unlikely that the source for the Supergrunt stream sediment anomaly is local. A LiDAR survey was conducted over the southern and northern part of the licence as part of a larger survey covering much of Venture Minerals' Mt Lindsay Project tenure area.

2 Introduction

Exploration Licence 33/2007 is situated in the tin-tungsten province of western Tasmania and covers the south eastern contact metamorphic aureole of the Meredith Granite. The Meredith Granite is part of a suite of Devonian granites which is very important to tin-tungsten mineralization in Tasmania, and deposits associated with this suite include the world class Renison Bell tin mine (26 Mt at 1.46% Sn), Mount Bischoff (10.54 Mt at 1.1% Sn), Cleveland (12.4 Mt at 0.62% Sn, 0.25% Cu) and King Island (17 Mt at 0.85% W₀₃). Cleveland and Mount Bischoff are situated around the northern margin of the Meredith Granite, and Renison Bell is associated with the smaller Pine Hill Granite c. 15 km to the southeast of the Meredith Granite.

3 Location and Access

Exploration Licence 33/2007 covers a narrow north trending 64 km² strip of rugged western Tasmania extending from c. 3 to 20 km south southeast of the Savage River magnetite mine. The Whyte River crosses the western boundary of the licence. Access is currently restricted to foot or helicopter.

Elevation within the licence ranges from 100 m above median sea level where the Whyte River winds along the western boundary up to 792 m at the top of Mount Meredith in the northern part of the license and 781 m for Mt Livingstone in the south of the license. Average annual rainfall is c. 2000 mm and vegetation is dominated by temperate rainforest, with patches of dense sub-alpine scrub over granitic basement and in areas of regenerating forest.



Figure 1: EL33/2007 Location Plan

4 Exploration and Mining History

Alluvial gold exploration and mining commenced in the district during the 1880's and placer gold workings are widespread in the Whyte and Rocky rivers immediately to the west of EL33/2007. Most recently, Goldstream Mining NL (1996 – 2001) focused its activities in the area exploring for gold hosted by Proterozoic iron formation. They identified a broad polymetallic (As, Pb, Sb, Ag, Bi) stream sediment anomaly located to the east of the Rocky River workings near the western boundary of EL33/2007. This anomaly was thought to be indicative of sediment hosted 'Carlin style' gold but was not significant enough to warrant further work.

Previous exploration work in the area covered by EL33/2007 for Sn and W is limited and much of the tenement remains under explored for these two metals. Aberfoyle Exploration Pty Ltd (1979 – 1981) explored for Sn and W mineralization mostly to the northeast of EL33/2007 which culminated in the discovery of a magnetite-amphibole and garnet skarn with anomalous Sn and W values at Mount Youngbuck. No significant work was done with the area now covered by EL33/2007.

During the 1983 to 1985 period Industrial and Mining Investigations Pty Ltd completed significant stream sediment sampling campaign to the north and west of current EL33/2007 and noted anomalous gold values. Sn and W results from tributaries to the Whyte and Rocky rivers were generally low, with the exception of the Supergrunt anomaly (222 ppm Sn, 222 ppm W, 730 ppm As, 245 ppm Cu, 410 ppm Zn and 55 ppm Pb) located in a large tributary to Rocky River just (<100 m) within the margin of the Meredith Granite. IMI was not able to follow this anomaly upstream and concluded that source of the anomaly was either in the immediate vicinity of the stream sediment sample or pluming from one of the small unsampled tributaries from the west of the main creek.

5 2010-2011 Anniversary Year Exploration Activities

Venture's exploration activities during the 2011 anniversary were focussed on the Supergrunt stream sediment anomaly (222 ppm Sn, 222 ppm W, 730 ppm As, 245 ppm Cu, 410 ppm Zn and 55 ppm Pb) located in a large tributary to Rocky River just within the margin of the Meredith Granite. A helicopter supported programme of geological mapping, 26 stream sediment samples and 189 soil samples was conducted in the Supergrunt area. A LiDAR survey was conducted over the southern and northern part of the licence as part of a larger survey covering much of Venture Minerals' Mt Lindsay Project tenure area.

5.1 Geological Mapping and Interpretation

From west to east EL33/2007 is underlain by Keith Schist or correlates, Oonah Formation (c. 1200 m thick) and finally Meredith Granite (Figure 2). Wedges of meta-sedimentary rocks assignable to the Success Creek Group are now interpreted to be present between the Oonah Fm and Meredith Granite in the northern and southern ends of the licence. This interpretation is based on a combination of historic and 2010 Venture

mapping in the Whyte River - Contact Creek area north of EL33/2007, and a geophysical signature and stratigraphic position closely comparable to the Success Creek Gp in the Stanley River – Mt Lindsay area. The Neoproterozoic – Early Cambrian Success Creek Group is not as conspicuously deformed as the Oonah Formation, and four formations are generally recognised, comprising a basal conglomerate with sandstone lenses, overlain by quartz sandstone with minor siltstone and conglomerate (Dalcoath Formation), then black mudstone, siltstone and minor quartz sandstone, and finally siliceous siltstone, red chert and mudstone with minor quartz sandstone, conglomerate and dolomite (Renison Bell Formation). In the Stanley River – Mt Lindsay area the Success Creek Gp comprises laminated to medium bedded quartz-wacke and dark grey siltstone, overlain by c. 100 m of dolomite, with minor quartz-wacke and siltstone and up to 50 m of polymict conglomerate with minor lithic sandstone and siltstone, then laminated to thin bedded reddish mudstone, siltstone and grey ?tuffaceous sandstone. Aberfoyle's 101/102B EM anomaly in the Whyte River north of EL33/2007 was described as comprising graphitic black shales, grey shales, rare quartzite, massive basic volcanic and laminated green and purple shales and siltstones (Joyce 1981). Joyce (1981) noted that such lithologies were very similar to those observed in Cambrian sediments to the east and north but still referred the anomaly to the Proterozoic "Whyte Schist Zone". The anomaly 101/102B lithologies are not compatible with the Crimson Creek Fm as known from Mt Lindsay, but could be compatible with the Success Creek Group.

Dolomite units within the Oonah and Success Creek groups and calcareous sandstones within the Crimson Creek Fm adjacent to the Meredith Granite are the targets for skarn hosted Sn, W and magnetite mineralisation. Carbonate units have not been mapped in the area but Venture's work in the Mt Lindsay – Stanley River area has shown that carbonates and distal skarn facies are typically topographically recessive and can require careful mapping to recognize.

Three topographically recessive north trending magnetic ridges are present adjacent to the Meredith Granite margin in the north of EL33/2007 and warrant detailed prospecting for carbonate and distal skarn alteration. The limited historic stream sediment sampling suggests that skarn mineralisation, if present, does not extend to surface.

Geological mapping in the Supergrunt area indicated several zones of granite formation, variable grain size with minor changes in composition. Identified alteration of the granite was limited to small rounded nodules of tourmaline-quartz greisen. Small scale tourmaline and quartz veins are uncommon, with rare zones of sheeted veins. Several large boulders of coarse grained tourmaline-quartz greisen float were located but not found in place. The exposed granite is mostly fresh in the Supergrunt area, although a zone of ferruginous saprock with millimetre scale ferruginous veinlets was identified in the eastern part of the soil sampled area. Assays are currently pending for rock chip samples from this ferruginous zone.

5.2 Stream Sediment and Soil Sampling

Twenty (20) stream sediment samples were collected from several tributaries to the Supergrunt stream sediment anomaly and six (6) were collected along the Rocky River.

Stream sediment was sieved to <3 mm, and then panned to obtain a heavy mineral concentrate. This was repeated 5-10 times to obtain a sample at each stream sediment location. All stream sediment samples were assayed and 13 of the samples were also subject to heavy mineral separation at Diotech Heavy Mineral Services PL followed by observation for skarn and greisen indicators. Stream sediment samples returned up to 0.2% Sn and 0.04% WO₃ with several samples above 0.01% Sn. The best responses were from samples taken from the main tributary to Rocky River and within Rocky River.

The heavy mineral concentrates were dominated by topaz and tourmaline with minor amounts of cassiterite, wolframite, monazite, dumortierite and chromite. The presence of monazite, topaz, and dumortierite minerals usually associated with pegmatites and greisens could indicate zones of cassiterite bearing mineralization within the granite.

The chromite from the streams was probed and shown to have a very Cr content (65-72% Cr₂O₃). Such high Cr-chromite is typical of the Wilson River Ultramafic Complex and correlatives and is the only obvious source. In the absence of ultramafic rocks within the present catchment area the high-Cr chromite is most likely a stream sediment relict from the Tertiary-Quaternary erosion of ultramafic rocks in the roof of the Meredith Granite (it is not unreasonable to assume that the Wilson River and Heazlewood ultramafic bodies were once part of a continuous body in the roof of the Meredith Granite).

It is most likely the Sn and W stream anomalism is due to alluvial concentration from cassiterite and/or wolframite bearing veins or greisens within the Meredith Granite, although the presence of ultramafic-derived chromite in the stream sediments raises the possibility of long eroded sources for the cassiterite and wolframite, both robust minerals in the weathering regime. Elevated As, Cu and Zn in the original Supergrunt stream sediments suggests there is at least some present source of mineralisation.

To investigate the possibility of a local cryptic greisenous source for the Supergrunt stream sediment anomalism a soil sampling program was conducted along 12 east-west lines covering an area of c. 1 km² around the stream sediment anomaly. Some 189 B-horizon soil samples were collected by hand auger on c. 50 m spacings. Samples were assayed by XRF on pressed powders for total Sn and W and a range of metals including B, Sn and W by acid digest with ICP or MS finish. Sn or W anomalism is not evident in the soil samples. Zones of boron anomalism are recognised in the north and southwest of the Supergrunt soil sample area; the northern anomaly is most likely associated with tourmaline greisen in the granite, while the southwest anomaly appears to be situated over the Oonah Formation and probably reflects a tourmaline vein swarm and/or B metasomatism of the metasediments. High Rb and Li anomalism is identified in the eastern part of the Supergrunt area and may be due to an enrichment of lepidolite within the granite. Lepidolite occurs in highly evolved magmas and can occur within pegmatites and is commonly associated with cassiterite mineralisation.

5.3 LiDAR surveying

AAM was engaged by Venture Minerals to conduct a LiDAR survey over much of the Mt. Lindsay Project area including part of EL24/2008. The Airborne Laser Scanning (ALS) data

was acquired from a fixed wing aircraft on April 5th and April 6th 2011. GPS base station support was acquired by Tritech Professional Services using an Optech ALTM Gemini 70 kHz Static RTK system. This allowed an assessment of the accuracy of the ALS data. Reduction of the ALS data proceeded without any significant problems. Laser strikes were classified into ground and non-ground points using a single algorithm across the project area. Manual checking and editing of the data classification further improved the quality of the terrain model. The Datum Projection Geoid Model was GDA94 MGA Zone 55 and Ausgeoid98, and Primary Reference Station WCP1 357205.518, E 5380864.729 N, 268.738 RL. Project specifications and technical processes were designed to achieve vertical data accuracy of 0.30 m and horizontal <0.30 m (1/5500 flying height). Ground definition in vegetated terrain may contain localized areas with systematic errors or outliers which fall outside this accuracy estimate. Laser strikes have been classified into “ground” and “non-ground”, based upon algorithms tailored for major terrain/vegetation combinations existing in the project area. The definition of the ground may be less accurate in isolated pockets of dissimilar terrain/vegetation combinations. Ground data in this volume was compared to 231 test points obtained by field survey on clear ground and assumed to be error-free, achieving a mean difference of -0.250 m, standard deviation of 0.041 m and RMS 0.254 m. The thinned laser strikes classified as “ground” for EL33/2007 are supplied in Appendix D.

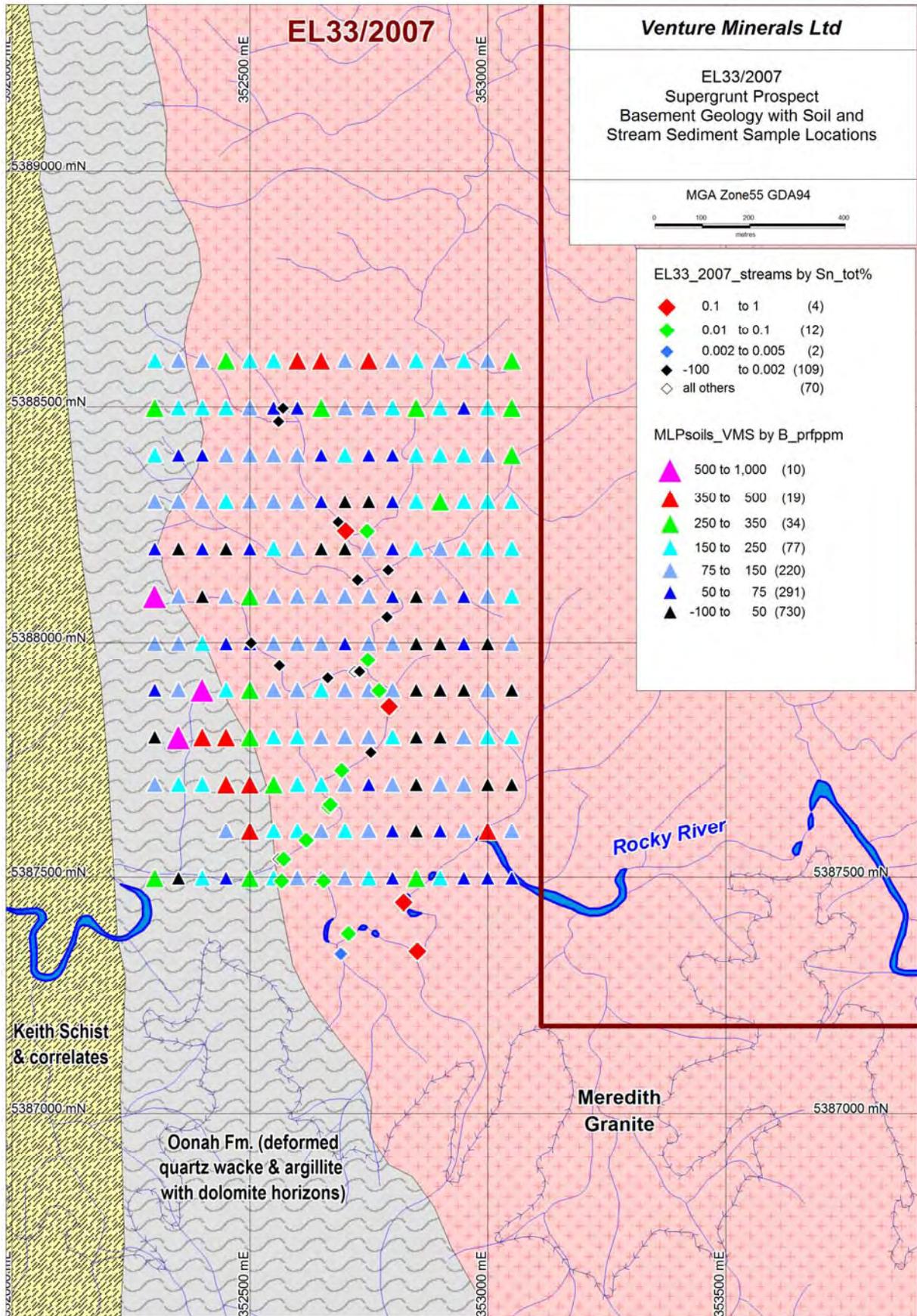


Figure 2: Supergrunt soil and stream sediment sample locations on interpreted basement geology

6 Conclusions and Recommendations

Venture's regional exploration activities within EL33/2007 during 2001 were focussed on the Supergrunt stream sediment anomaly (222 ppm Sn, 222 ppm W, 730 ppm As, 245 ppm Cu, 410 ppm Zn and 55 ppm Pb) located in a large tributary to Rocky River just within the margin of the Meredith Granite. Helicopter supported geological mapping, stream sediment and soil sample verified the presence of Sn and W anomalous stream sediments but failed to identify a local source. Low level B, Rb and Li anomalism suggests the presence of only weakly greisenous zones in the granite within the immediate Supergrunt area. It is recommended that activities in the 2011-2012 anniversary year be focussed on:

- A structural interpretation using the high quality LiDAR DTM in conjunction with existing aeromagnetic imagery to identify potential structural conduits for carbonate replacement or skarn forming fluids;
- Mapping, stream sediment and soil sampling over the metasedimentary rocks adjacent to Meredith Granite, especially in the far northern part of EL33/2007 where rocks of the Success Creek Group are interpreted to be intruded by the granite, and in the B anomalous area to the SW of Supergrunt;
- Sampling of the ferruginous granite saprock identified in the eastern part of the Supergrunt area;
- Broader mapping and characterisation of the Meredith Granite beyond the Supergrunt area to identify stages of the batholith that could be associated with Sn and W mineralisation formation, and find the source of coarse quartz-tourmaline greisen float observed in the stream systems (such greisens appear to be broadly associated with Sn and W skarn development around the Meredith Granite);

7 Bibliography

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Appendix A

Stream Sediment Sample Locations & Assays

EL33/2007 Appendix A: Stream Sediment Locations and Assays

H1000	Sample	E_MGA55	N_MGA55	Lith_description	Site_description	Batch	Date	Sn_XRF	Sn_ICP61	WO3	Ag	As	B	Bi	Cr	Cu	Ni	Pb
H1001		metres	metres					%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
H1002		10	10															
D	SGSS008	352664	5387926	scg sand comprising of comon qz+fp fragments. w/ tu +dense vitreous yw mineral.	shallow low gradient creek. Braiding. w/ large boulders + vegetation obstruction stream. Sediment consists of granitic sands+ small ZQT pebbles. Boulders ≤5m w/ qz-tu nodules.	AD11063080	8/05/2011	0.0005	0.0001	-0.0013	0.04	0.4	150	0.63	6	0.6	1.2	7.2
D	SGSS009	352731	5387940	granitic scg sand comprising of dominantly qz w/ lesser fp + minor tu.	low volume stream flowing over granite outcrop. Steep gradient sed collected from small pile in pool at base of short 1.7m high waterfall. Very little sed. Qz dominant coarse fraction. Minor ZQT pebbles.	AD11063080	8/05/2011	0.0006	0.0001	-0.0013	0.03	0.7	140	0.05	7	0.3	1.2	7.2
D	SGSS010	352748	5387965	scg granitic sand consisting of qz+fp w/ abundant tu + minor yw ?monazite.	high volume stream flowing between large FG boulders, gravel beds accumulating on bends. Sed load = FG, mas qz + ZQT rounded boulders and cobbles.	AD11063080	8/05/2011	0.0132	0.00038	0.0038	0.07	0.3	930	0.04	10	0.2	2.3	6.4
D	SGSS011	352793	5387866	scg granitic sand consisting of qz+fp w/ tu + significant dense yw vitreous mineral ?monazite.	same high volume stream, just south of tributary entrance marked on map. But no flowing tributary coming out of narrow steep gully. Sed load= FG, ZQT + mas qz.	AD11063080	8/05/2011	0.1625	0.0007	0.0404	0.14	-0.2	1570	0.69	8	0.7	2.1	30.9
D	SGSS012	352823	5387450	scg sand comprising of comon qz+fp fragments. Rare litic grains (? Schist, mas qz). + dense vitreous yw mineral.	well established high volume stream, meandering. Sediment load consists FG, ZQT, mas Qz + well rounded pebbles of ZSCH (≤10mm).	AD11063080	8/05/2011	0.125	0.00051	0.0063	0.1	-0.2	720	0.04	11	0.3	2.1	10
D	SGSS013	352852	5387348	tu rich scg qz+fp sand. Rare litic fragments (? Schist, mas qz). + yw vitreous dense mineral.	high volume, well established stream. Just after intersection with dry creek. Sample taken just before water flow's under boulders and is not exposed for a section 20-30m. Gravel and pebbles consist Fg, ZQT, mas qz + minor ZSCH.	AD11063080	8/05/2011	0.207	0.00048	0.0265	0.12	-0.2	530	0.05	8	0.9	1.1	26.9
D	SGSS014	352707	5387384	scg sand comprising of comon qz+fp fragments. Rare litic grains (? Schist, mas qz). + dense vitreous yw mineral.	Braiding stream, high water volume, well established flowing along incised bedrock. Sediment consisting of FG, ZQT, mas qz and rare ZSCH.	AD11063080	8/05/2011	0.0142	0.00032	0.0025	0.06	0.4	410	0.03	7	0.9	1.2	9.4
D	SGSS015	352691	5387342	scg sand comprising of comon qz+fp fragments. Rare litic grains (? Schist, mas qz). + dense vitreous yw mineral.	Low volume very steep sided, narrow creek. w/ high gradient running across incised FG bedrock. low sediment load consisting rare ang FG clasts, ZQT and mas QZ.	AD11063080	8/05/2011	0.0023	0.00012	-0.0013	0.05	0.6	100	0.05	8	0.4	1	4.6
D	SGSS016	352655	5387494	scg sand comprising of comon qz+fp fragments. Rare litic grains (? Schist, mas qz). + dense vitreous yw mineral.	High volume stream w/ large FG boulders running along exposed bedrock. Low gradient stream consisting of FG, ZQT, mas qz and minor ZSCH.	AD11063080	8/05/2011	0.0944	0.00038	0.0139	0.11	-0.2	470	0.28	8	1.1	1.2	21
D	SGSS017	352567	5387494	scg sand comprising of comon qz+fp fragments. Rare litic grains (? Schist, mas qz). + dense vitreous yw mineral.	Fast flowing, high volume stream after a set of rapids w/ large FG boulders. flowing over exposed bedrock sediment load consists of FG, ZQT, mas qz + rare ZSCH w/ granitic sands. Poorly sorted + variable rounding.	AD11063080	8/05/2011	0.0183	0.00029	0.005	0.08	0.5	340	0.05	9	0.9	1	13
D	SGSS018	352571	5387541	scg sand comprising of comon qz+fp fragments. Rare litic grains (? Schist, mas qz). + dense vitreous yw mineral.	well established fast flowing creek, shallow gradient, high volume flow. w/ abundant FG boulders + ang ZSCH (≤1.2m) (near contact ?) sediment load consists of FG, ZQT, ZSCH + mas qz + granitic sand. To the east 5m high shear FG outcrop.	AD11063080	8/05/2011	0.0134	0.00029	0.0038	0.05	0.5	490	0.05	-5	0.3	0.9	5.9
D	SGSS019	352666	5387653	tu rich granitic scg sand + minor yw dense minerals.	Second attempt at supergrunt (duplicate sample for SGSS002)	AD11063080	8/05/2011	0.0252	0.00035	0.0113	0.09	-0.2	620	0.04	5	0.3	0.9	15.4
D	SGSS020	352570	5388499	sfg-scq qz sand w/ lesser fp grains. Heavies consist of tu + yw monazite. ?trace v.ifg bk min	small creek, moderate gradient, sediment load consists of granitic gravel + sfg qz sand. + moderately vegetated creek.	AD11075002	4/06/2011	-0.0005	0.00011	0.0013	0.06	1.6	280	0.08	13	1.2	1.7	3.8
D	SGSS021	352561	5388472	sfg-smg qz sand w/ minor fp +tu grains w/ rare yw monazite	shallow gradient meandering creek w/ sandy granitic gravel load. low volume.	AD11075002	4/06/2011	-0.0005	0.00009	0.0013	0.07	2.8	170	0.07	12	1.7	3.6	3.4
D	SGSS022	352686	5388257	sfg-smg qz sand w/ lesser fp + minor tu w/ trace monazite. +?dgy heavy min.	fast flowing creek in steep sided valley w/ large FG boulders obstructing sed flow. Creek runs over exposed FG bedrock.	AD11075002	4/06/2011	0.0006	0.0001	0.0013	0.04	0.8	190	0.07	11	0.9	0.4	4.9

EL33/2007 Appendix A: Stream Sediment Locations and Assays

H1000	Sample	E_MGA55	N_MGA55	Lith_description	Site_description	Batch	Date	Sn_XRF	Sn_ICP61	WO3	Ag	As	B	Bi	Cr	Cu	Ni	Pb
H1001		metres	metres					%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
H1002		10	10															
D	SGSS023	352746	5388237	scg-smg qz sand w/ abundant tu + sig monazite.	shallow gradient, high volume steady flowing creek, running across exposed bedrock w/ large FG boulders obstructing flow ($\leq 1.5m$). Sediment load consists of FG, mas qz + ZQT w/ rare rounded ZSCH.	AD11075002	4/06/2011	0.0235	0.00048	0.0113	0.11	0.4	1090	0.04	14	0.9	0.5	12.7
D	SGSS024	352791	5388155	sfg-scq qz rich sand w/ lesser fp + tu. Heavies consist of monazite + v.ifg bk material.	fast flowing, high volume creek running over exposed bedrock. Moderate gradient. Sed loads consists of FG gravels + minor FG pebbles.	AD11075002	4/06/2011	0.0008	0.00015	-0.0013	0.05	0.2	380	0.03	11	0.9	0.3	5.1
D	SGSS025	352727	5388135	sfg-scq qz sand w/ lesser fp grains + tu. + rare yw monazite.	moderately vegetated creek, slow moving w/ low volume. Flowing over exposed FG bedrock. Sed load consists of FG, ZQT, mas qz + rare well rounded pebbles of qz-mi ZSCH.	AD11075002	4/06/2011	0.0005	0.00009	0.0025	0.05	0.8	210	0.04	11	0.9	0.9	4.6
D	SGSS026	352789	5388057	scg-sfg qz-fp sand w/ tu. Heavy mineral poor trace monazite + v.ifg bk heavy min.	well established stream, fast flowing w/ large volume runoff. Exposing large section of FG bedrock. Several large boulders $\leq 3m$ obstruct flow. Sed load consists of FG, ZQT, mas qz and minor ZSCH.	AD11075002	4/06/2011	0.0012	0.00039	-0.0013	0.06	0.7	430	0.04	11	1.2	1.1	4.8
EOF																		

Appendix B

Stream Sediment Heavy Mineral Separations & Observed Abundances

EL33/2007 Appendix B: Stream Sediment Heavy Mineral Separations

H0002	Version	3			
H0003	Date_generated	26/07/2011			
H0004	Reporting_period_end_date	28/08/2011			
H0005	State	TAS			
H0100	Tenement	EL33/2007			
H0101	Tenement_holder	Venture Minerals Ltd			
H0102	Project_name	Supergrunt			
H0106	Tenement_operator	Venture Minerals Ltd			
H0150	250K_map_sheet	SK5503 Burnie			
H0151	100K_map_sheet	7914 Pieman			
H0152	50K_map_sheet	na			
H0153	25K_map_sheet	3438 Livingstone, 3439 Meredith			
H0200	Start_date_of_data_acquisition	28/08/2010			
H0201	End_date_of_data_acquisition	26/07/2011			
H0202	Data_format	SG3			
H0203	Number_of_data_records	13			
H0204	Date_of_metadata_update	26/07/2011			
H0500	Feature_Located	Sample Point			
H0501	Geodetic_datum	GDA94			
H0502	Vertical_datum	not applicable			
H0503	Projection	MGA			
H0531	Projection_zone	55			
H0532	Surveying_instrument	Garmin GPS60CSx			
H0533	Surveying_Company	Venture Minerals Ltd			
H0600	Sample_code	STREAM SED			
H0601	Sample_type	Panned Stream Sediment			
H0602	Sample_description	-3mm sieved and panned concentrate			
H0700	Sample_preparation_code	PREP-21			
H0701	Sample_preparation_details	dry, crush, pulverise to approx P80 <75 microns			
H0702	Job_no	see data			
H0800	Assay_code	na			
H0801	Assay_company	Diatech Heavy Mineral Services Pty Ltd, 15 Sandra Close, Kewdale WA			
H0802	Assay_description	observation of heavy mineral concentrates, visually estimated abundances			
H0900	Remarks:				
H1000	Sample	E_MGA55	N_MGA55	Lith_description	Site_description
H1001		metres	metres		
H1002		25	25		
D	SGSS008	352664	5387926	scg sand comprising of comon qz+fp fragments. w/ tu +dense vitreous yw mineral.	shallow low gradient creek. Braiding. w/ large boulders + vegetation obstruction stream. Sediment consists of granitic sands+ small ZQT pebbles. Boulders ≤5m w/ qz-tu nodules.
D	SGSS009	352731	5387940	granitic scg sand comprising of dominantly qz w/ lesser fp + minor tu.	low volume stream flowing over granite outcrop. Steep gradient sed collected from small pile in pool at base of short 1.7m high waterfall. Very little sed. Qz dominant coarse fraction. Minor ZQT pebbles.
D	SGSS011	352793	5387866	scg granitic sand consisting of qz+fp w/ tu + significant dense yw vitreous mineral ?monazite.	same high volume stream, just south of tributary entrance marked on map. But no flowing tributary coming out of narrow steep gully. Sed load= FG, ZQT + mas qz.
D	SGSS014	352707	5387384	scg sand comprising of comon qz+fp fragments. Rare litic grains (? Schist, mas qz). + dense vitreous yw mineral.	Braiding stream, high water volume, well established flowing along incised bedrock. Sediment consisting of FG, ZQT, mas qz and rare ZSCH.
D	SGSS015	352691	5387342	scg sand comprising of comon qz+fp fragments. Rare litic grains (? Schist, mas qz). + dense vitreous yw mineral.	Low volume very steep sided, narrow creek. w/ high gradient running across incised FG bedrock. low sediment load consisting rare ang FG clasts, ZQT and mas qz.
D	SGSS017	352567	5387494	scg sand comprising of comon qz+fp fragments. Rare litic grains (? Schist, mas qz). + dense vitreous yw mineral.	Fast flowing, high volume stream after a set of rapids w/ large FG boulders. flowing over exposed bedrock sediment load consists of FG, ZQT, mas qz + rare ZSCH w/ granitic sands. Poorly sorted + variable rounding.
D	SGSS018	352571	5387541	scg sand comprising of comon qz+fp fragments. Rare litic grains (? Schist, mas qz). + dense vitreous yw mineral.	well established fast flowing creek, shallow gradient, high volume flow. w/ abundant FG boulders + ang ZSCH (≤1.2m) (near contact ?) sediment load consists of FG, ZQT, ZSCH + mas qz + granitic sand. To the east 5m high shear FG outcrop.
D	SGSS020	352570	5388499	sfg-scq qz sand w/ lesser fp grains. Heavies consist of tu + yw monazite. ?trace v.ifg bk min	small creek, moderate gradient, sediment load consists of granitic gravel + sfg qz sand. + moderately vegetated creek.
D	SGSS021	352561	5388472	sfg-smg qz sand w/ minor fp +tu grains w/ rare yw monazite	shallow gradient meandering creek w/ sandy granitic gravel load. low volume.
D	SGSS022	352686	5388257	sfg-smg qz sand w/ lesser fp + minor tu w/ trace monazite. +?dgy heavy min.	fast flowing creek in steep sided valley w/ large FG boulders obstructing sed flow. Creek runs over exposed FG bedrock.
D	SGSS023	352746	5388237	scg-smg qz sand w/ abundant tu + sig monazite.	shallow gradient, high volume steady flowing creek, running across exposed bedrock w/ large FG boulders obstructing flow (≤1.5m). Sediment load consists of FG, mas qz + ZQT w/ rare rounded ZSCH.
D	SGSS024	352791	5388155	sfg-scq qz rich sand w/ lesser fp + tu. Heavies consist of monazite + v.ifg bk material.	fast flowing, high volume creek running over exposed bedrock. Moderate gradient. Sed loads consists of FG gravels + minor FG pebbles.
D	SGSS025	352727	5388135	sfg-scq qz sand w/ lesser fp grains + tu. + rare yw monazite.	moderately vegetated creek, slow moving w/ low volume. Flowing over exposed FG bedrock. Sed load consists of FG, ZQT, mas qz + rare well rounded pebbles of qz-mi ZSCH.
EOF					

EL33/2007 Appendix B: Stream Sediment Heavy Mineral Separations

H0002	Version																			
H0003	Date_generated																			
H0004	Reporting_period_end_date																			
H0005	State																			
H0100	Tenement																			
H0101	Tenement_holder																			
H0102	Project_name																			
H0106	Tenement_operator																			
H0150	250K_map_sheet																			
H0151	100K_map_sheet																			
H0152	50K_map_sheet																			
H0153	25K_map_sheet																			
H0200	Start_date_of_data_acquisition																			
H0201	End_date_of_data_acquisition																			
H0202	Data_format																			
H0203	Number_of_data_records																			
H0204	Date_of_metadata_update																			
H0500	Feature_Located																			
H0501	Geodetic_datum																			
H0502	Vertical_datum																			
H0503	Projection																			
H0531	Projection_zone																			
H0532	Surveying_instrument																			
H0533	Surveying_Company																			
H0600	Sample_code																			
H0601	Sample_type																			
H0602	Sample_description																			
H0700	Sample_preparation_code																			
H0701	Sample_preparation_details																			
H0702	Job_no																			
H0800	Assay_code																			
H0801	Assay_company																			
H0802	Assay_description																			
H0900	Remarks:																			
H1000	Sample	Job	Observed_Stype	Conc_mm	Head_kg	Non-mag_g	Mag_g	Conc_g	Observed_g	Almandine	Amphibole	Biotite	Calcite	Cassiterite	Chromite	Dumortierite	Ilmenite	Leucoxene		
H1001																				
H1002																				
D	SGSS008	11024	MI Concentrate	-1.2+0.3	0.624	6.79	0	6.79	6.79	0.1	0	0	0	0	0	0.1	0	0	0	
D	SGSS009	11024	MI Concentrate	-1.2+0.3	0.23	0.89	0	0.89	0.89	0	0.1	0	0	0.1	0	0.1	0	0	0	
D	SGSS011	11024	MI Concentrate	-1.2+0.3	0.595	36.89	0	36.89	36.89	0	0	0	0	0.1	0.1	0	0.1	0	0	
D	SGSS014	11024	MI Concentrate	-1.2+0.3	0.47	6.39	0	6.4	6.4	0.1	0	0.1	0	0.1	0	0	1	0.1	0	
D	SGSS015	11024	MI Concentrate	-1.2+0.3	0.401	3.69	0	3.69	3.69	0	0	0.1	0	0.1	0.1	0.1	0.1	0	0	
D	SGSS017	11024	MI Concentrate	-1.2+0.3	1	7.39	0	7.4	7.4	0.1	0	0	0	1	0	0	0.1	0	0	
D	SGSS018	11024	MI Concentrate	-1.2+0.3	0.576	5.29	0	5.29	5.29	0	0	0	0	0.1	0.1	0	0.1	0	0	
D	SGSS020	11024	MI Concentrate	-1.2+0.3	0.636	1.39	0	1.4	1.4	0	0	0	0	0	0.1	0.1	0	0	0	
D	SGSS021	11024	MI Concentrate	-1.2+0.3	0.742	0.59	0	0.59	0.59	0.1	0	0	0	0	0	0.1	0.1	0	0	
D	SGSS022	11024	MI Concentrate	-1.2+0.3	0.836	3.19	0	3.19	3.19	0	0	0	0	0	0.1	0.1	0	0	0	
D	SGSS023	11024	MI Concentrate	-1.2+0.3	0.61	13.59	0	13.59	13.59	0.1	0	0	0	0.1	0.1	0.1	0.1	0	0	
D	SGSS024	11024	MI Concentrate	-1.2+0.3	0.833	4.99	0	5	5	0	0	0	0	0.1	0	0.1	0	0	0	
D	SGSS025	11024	MI Concentrate	-1.2+0.3	0.706	3.89	0	3.89	3.89	0	0	0	0	0	0	0.1	0	0	0	
EOF																				

EL33/2007 Appendix B: Stream Sediment Heavy Mineral Separations

H0002	Version								
H0003	Date_generated								
H0004	Reporting_period_end_date								
H0005	State								
H0100	Tenement								
H0101	Tenement_holder								
H0102	Project_name								
H0106	Tenement_operator								
H0150	250K_map_sheet								
H0151	100K_map_sheet								
H0152	50K_map_sheet								
H0153	25K_map_sheet								
H0200	Start_date_of_data_acquisition								
H0201	End_date_of_data_acquisition								
H0202	Data_format								
H0203	Number_of_data_records								
H0204	Date_of_metadata_update								
H0500	Feature_Located								
H0501	Geodetic_datum								
H0502	Vertical_datum								
H0503	Projection								
H0531	Projection_zone								
H0532	Surveying_instrument								
H0533	Surveying_Company								
H0600	Sample_code								
H0601	Sample_type								
H0602	Sample_description								
H0700	Sample_preparation_code								
H0701	Sample_preparation_details								
H0702	Job_no								
H0800	Assay_code								
H0801	Assay_company								
H0802	Assay_description								
H0900	Remarks:								
H1000	Sample	Magnetite	Monazite	Pyrite	Topaz	Tourmaline	Wolframite	Comments	
H1001									
H1002									
D	SGSS008	0.1	0.1	0	99	1	0		
D	SGSS009	0.1	1	0	98	1	0		
D	SGSS011	0.1	10	0	90	0.1	0.1	69-71% Cr2O3 & 0.4% Ni in probed chromites, source LDH in WRUC?	
D	SGSS014	0.1	1	0	96	2	0		
D	SGSS015	0.1	2	0	97	1	0.1	67% Cr2O3 in probed chromites, source LDH in WRUC?	
D	SGSS017	0.1	0.1	0	96	3	0.1		
D	SGSS018	0.1	1	0	94	5	0.1	65% Cr2O3 in probed chromites, source LDH in WRUC?	
D	SGSS020	0.1	1	0	97	2	0.1	62% Cr2O3 in probed chromites, source LDH in WRUC?	
D	SGSS021	0.1	1	0	98	1	0		
D	SGSS022	0.1	1	0	96	3	0.1	65% Cr2O3 in probed chromites, source LDH in WRUC?	
D	SGSS023	0.1	1	0	96	3	0.1	72% Cr2O3 in probed chromites, source LDH in WRUC?	
D	SGSS024	0.1	1	0	89	10	0.1		
D	SGSS025	0.1	5	0.1	90	5	0.1		
EOF									

Appendix C

Soil Sample Locations & Assays

EL33/2007 Appendix C: Soil Sample Locations and Assays

H1000	Sample	E_MGA55	N_MGA55	Description	Batch	Date	Sn_XRF	Sn_ICP	WO3	Ag	As	B	Ba	Be	Bi	Cr	Cu	Li	Ni	Pb	Rb	
H1001		metres	metres				%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
H1002		15	15																			
D	SGS030	352950	5387600	B horizon 30cm depth	AD11075004	1/06/2011	0.0006	0.00023	0.0025	0.13	3.8	140	10	2.02	0.87	19	1.4	33.3	2.5	7.7	159	
D	SGS031	353000	5387600	B horizon 40cm depth	AD11075004	1/06/2011	0.0011	0.00026	0.0013	0.09	1.2	360	50	3.2	0.05	18	1.4	16.7	2.7	8.7	133	
D	SGS032	353050	5387600	B horizon 35cm depth	AD11075004	1/06/2011	-0.0005	0.00039	0.0013	0.34	5.1	120	50	2.47	0.2	28	2.8	23.3	3.7	15.1	211	
D	SGS036	352300	5387700	B horizon 20cm depth	AD11075004	1/06/2011	0.0009	0.00044	-0.0013	0.23	1.6	90	140	0.62	0.17	30	5.1	8.8	4	4.2	54.7	
D	SGS037	352350	5387700	B horizon 25cm depth	AD11075004	1/06/2011	0.0006	0.00025	-0.0013	0.2	1	200	50	0.35	0.12	26	8.3	9	3.2	3.7	11.7	
D	SGS038	352400	5387700	B horizon 20cm depth	AD11075004	1/06/2011	0.001	0.00018	-0.0013	0.14	1	160	40	0.63	0.08	27	6.2	9.2	2.8	5.6	13.7	
D	SGS039	352450	5387700	C horizon 40cm depth	AD11075004	1/06/2011	-0.0005	0.00023	0.0013	0.13	0.5	380	20	0.99	0.06	24	3.1	10.4	2.3	1	14	
D	SGS040	352500	5387700	B horizon 15cm depth	AD11075004	1/06/2011	0.0011	0.00051	0.0013	0.14	1.4	410	90	1.1	0.07	34	5.7	11.1	5.1	2.3	44.6	
D	SGS041	352550	5387700	B horizon 35cm depth	AD11075004	1/06/2011	0.0005	0.00027	0.0013	0.15	1.2	310	20	1.32	0.21	22	2.5	13	2	2.9	37.8	
D	SGS042	352600	5387700	B horizon 35cm depth	AD11075004	1/06/2011	0.0006	0.00036	0.0013	0.34	1.3	190	50	2.81	0.47	18	2.1	23.8	1.6	9.2	203	
D	SGS043	352650	5387700	B horizon 35cm depth	AD11075004	1/06/2011	0.002	0.00028	0.0013	0.09	0.7	190	20	2.98	0.05	13	0.7	19.2	0.9	7.1	118	
D	SGS044	352700	5387700	B horizon 30cm depth	AD11075004	1/06/2011	0.0009	0.00028	0.0013	0.47	1.1	80	40	2.51	0.08	16	2.1	21.4	1.3	12.4	177.5	
D	SGS045	352750	5387700	B horizon 30cm depth	AD11075004	1/06/2011	0.0005	0.00005	-0.0013	0.15	1	60	10	1.86	0.04	16	1.8	16.4	2.2	2.4	17.8	
D	SGS046	352800	5387700	B horizon 30cm depth	AD11075004	1/06/2011	0.0006	0.00026	0.0013	0.68	3.5	110	20	11.55	0.74	21	2.2	28.4	4.2	11.3	158.5	
D	SGS047	352850	5387700	B horizon 30cm depth	AD11075004	1/06/2011	0.0008	0.00013	-0.0013	0.16	1.1	30	10	3.14	0.19	12	1.2	18.6	0.9	9.2	123.5	
D	SGS048	352900	5387700	B horizon 20cm depth	AD11075004	1/06/2011	-0.0005	0.00022	0.0013	0.14	0.8	110	10	1.72	0.19	14	0.8	36.1	1.2	7.4	149.5	
D	SGS049	352950	5387700	B horizon 35cm depth	AD11075004	1/06/2011	0.0007	0.00011	0.0013	0.26	1.3	120	20	5.1	0.08	20	2.7	14	2.2	6.2	46.4	
D	SGS050	353000	5387700	B horizon 35cm depth	AD11075004	1/06/2011	-0.0005	0.00002	-0.0013	0.06	2.4	10	-10	0.78	0.03	14	0.6	20	0.7	0.7	1.7	
D	SGS051	353050	5387700	B horizon 45cm depth	AD11075004	1/06/2011	-0.0005	0.00004	-0.0013	0.12	0.4	20	-10	1.08	0.02	13	0.8	22.4	0.7	1.5	6.7	
D	SGS052	352300	5387800	B horizon 25cm depth	AD11075004	1/06/2011	0.0009	0.00031	-0.0013	0.2	1	40	90	0.43	0.23	22	4	7.2	2.3	4.1	26.6	
D	SGS053	352350	5387800	B horizon 25cm depth	AD11075004	1/06/2011	0.0008	0.00058	0.0013	0.21	4	570	140	0.82	0.43	29	4.1	11.2	4.3	3.2	61.7	
D	SGS054	352400	5387800	B horizon 30cm depth	AD11075004	1/06/2011	0.0007	0.0002	-0.0013	0.11	0.8	460	30	1.06	0.11	23	2.7	10.5	4.1	2.1	11.9	
D	SGS055	352450	5387800	C horizon 10cm depth	AD11075004	1/06/2011	0.0008	0.00043	-0.0013	0.19	0.7	370	30	0.66	0.12	16	3.1	11.2	1.8	3.6	15.5	
D	SGS056	352500	5387800	B horizon 40cm depth	AD11075004	1/06/2011	-0.0005	0.00017	0.0013	0.71	1.1	320	20	1.86	0.19	24	3	13.1	4.9	3.7	48.6	
D	SGS057	352550	5387800	B horizon 35cm depth	AD11075004	1/06/2011	0.0007	0.00017	0.0013	0.21	1.2	200	30	7.7	0.32	19	1.9	16.3	2.2	6.3	87.9	
D	SGS058	352600	5387800	B horizon 30cm depth	AD11075004	1/06/2011	-0.0005	0.00014	0.0013	0.24	0.9	170	30	3.84	0.13	19	1.7	24.8	2.7	9	149	
D	SGS059	352650	5387800	B horizon 35cm depth	AD11075004	1/06/2011	0.0007	0.00009	0.0013	0.44	0.6	120	20	1.94	0.11	18	2.7	9.1	0.7	5.4	41.7	
D	SGS060	352700	5387800	B horizon 30cm depth	AD11075004	1/06/2011	0.0006	0.00007	-0.0013	0.22	1.1	120	10	1.45	0.04	15	1.8	17.3	2.9	3.6	31.7	
D	SGS061	352750	5387800	B horizon 40cm depth	AD11075004	1/06/2011	0.0006	0.00012	0.0013	0.29	0.8	90	30	3.11	0.06	14	1.6	14.4	1.1	11.3	147.5	
D	SGS062	352800	5387800	B horizon 30cm depth	AD11075004	1/06/2011	0.0007	0.00026	0.0013	0.31	0.5	230	20	2.38	0.06	19	1.6	19	1.2	7.9	108.5	
D	SGS063	352850	5387800	B horizon 35cm depth	AD11075004	1/06/2011	0.0006	0.00019	-0.0013	0.24	1	40	20	1.93	0.08	15	2.2	19.9	1.1	14.3	201	
D	SGS064	352900	5387800	B horizon 30cm depth	AD11075004	1/06/2011	0.0006	0.00014	-0.0013	0.18	0.7	20	20	1.78	0.04	15	1.8	36.4	2.7	12	182.5	
D	SGS065	352950	5387800	B horizon 20cm depth	AD11075004	1/06/2011	0.0009	0.00015	-0.0013	0.25	1.2	90	10	1.69	0.08	16	2.7	16.4	1.6	5.5	45.3	
D	SGS066	353000	5387800	B horizon 25cm depth	AD11075004	1/06/2011	0.0005	0.0002	-0.0013	0.21	1	150	10	2.74	0.05	19	1.6	22.2	6	9	122.5	
D	SGS067	353050	5387800	B horizon 25cm depth	AD11075004	1/06/2011	0.0005	0.00011	-0.0013	0.13	1.1	220	10	3.2	0.1	15	1.5	20.2	1.1	4.7	39.4	
D	SGS071	352300	5387900	B horizon 15cm depth	AD11075004	1/06/2011	0.0007	0.00014	-0.0013	0.11	1	60	70	0.27	0.15	24	4.2	6.4	4	4.1	20.6	
D	SGS072	352350	5387900	B horizon 20cm depth	AD11075004	1/06/2011	0.0006	0.0002	-0.0013	0.2	0.9	100	90	0.62	0.25	26	4.9	9.7	3.8	4.7	30	
D	SGS073	352400	5387900	C horizon 50cm depth	AD11075004	1/06/2011	0.0011	0.00095	0.0013	0.21	4.2	690	180	1.81	0.34	32	4.8	21	4.4	3.4	81.8	
D	SGS074	352450	5387900	B horizon 25cm depth	AD11075004	1/06/2011	0.0008	0.00019	-0.0013	0.17	1	230	20	1.85	0.14	16	2.3	11.5	1.6	5.2	66.8	
D	SGS075	352500	5387900	B horizon 15cm depth	AD11075004	1/06/2011	0.0007	0.00022	-0.0013	0.13	0.8	250	20	2.13	0.05	16	1.8	12.8	1.9	6.7	108	
D	SGS076	352550	5387900	B horizon 20cm depth	AD11075004	1/06/2011	-0.0005	0.00019	-0.0013	0.1	0.8	120	30	2.55	0.2	17	1.5	19.4	0.7	8.9	169.5	
D	SGS077	352600	5387900	B horizon 20cm depth	AD11075004	1/06/2011	0.0008	0.00009	0.0013	0.37	1.3	110	30	1.82	0.13	16	4.3	6.4	1.1	11.4	69.9	
D	SGS078	352650	5387900	B horizon 25cm depth	AD11075004	1/06/2011	0.0008	0.00009	0.0013	0.34	0.8	160	10	2.48	0.11	18	2.8	14.6	3.1	3.3	15.3	
D	SGS079	352700	5387900	B horizon 25cm depth	AD11075004	1/06/2011	0.0008	0.00008	-0.0013	0.23	1.3	100	10	1.41	0.1	16	3.5	8	1.7	5.4	16.2	
D	SGS080	352750	5387900	B horizon 25cm depth	AD11075004	1/06/2011	-0.0005	0.00011	-0.0013	0.12	0.8	130	30	1.86	0.03	15	1.6	18.5	3.4	7.9	120.5	
D	SGS081	352800	5387900	B horizon 30cm depth	AD11075004	1/06/2011	0.0006	0.00022	-0.0013	0.2	0.9	90	20	2.67	0.08	14	1.8	17	1.1	13.5	192	
D	SGS082	352850	5387900	B horizon 75cm depth	AD11075004	1/06/2011	-0.0005	0.00017	-0.0013	0.17	0.7	30	20	2.23	0.04	17	1.9	24.9	2.7	13.7	228	
D	SGS083	352900	5387900	B horizon 100cm depth	AD11075004	1/06/2011	0.0006	0.00029	-0.0013	0.31	1.8	10	30	2.75	0.06	14	1.2	41	1.5	38.4	292	
D	SGS084	352950	5387900	B horizon 30cm depth	AD11075004	1/06/2011	0.0006	0.0001	-0.0013	0.06	0.6	40	20	3.95	0.13	18	1	18.7	1.8	12.6	217	
D	SGS085	353000	5387900	B horizon 25cm depth	AD11075004	1/06/2011	0.0007	0.00014	-0.0013	0.27	0.9	140	10	6.53	0.23	13	1.2	21.9	1.2	8.6	125.5	
D	SGS086	353050	5387900	C horizon 90cm depth	AD11075004	1/06/2011	0.0012	0.00099	0.0013	0.45	5.4	20	60	2.13	0.17	23	2.6	27.9	3.3	21.5	320	
D	SGS087	352300	5388000	C horizon 15cm depth	AD11096027	29/06/2011	0.0017	0.00093	-0.0013	0.24	1.8	100	300	0.74	0.5	40	10.4	11.2	6.1	2	115	
D	SGS088	352350	5388000	A/B horizon 25cm depth	AD11096027	29/06/2011	0.0006	0.00018	-0.0013	0.11	0.7	80	20	0.28	0.14	19	4.2	10.8	2.6	0.6	8.6	
D	SGS089	352400	5388000	B/C horizon 30cm depth	AD11096027	29/06/2011	0.0006	0.0002	-0.0013	0.16	1	150	10	1.03	0.1	23	6.8	13.8	6.5	2.2	21.9	
D	SGS090	352450	5388000	B horizon 50cm depth	AD11096027	29/06/2011	0.0006	0.00051	-0.0013	0.37	33.8	50	40	1.79	0.54	16	2.7	24.3	1.9	11.4	257	
D	SGS091	352500	5388000	B horizon 30cm depth	AD11096027	29/06/2011	0.															

EL33/2007 Appendix C: Soil Sample Locations and Assays

H1000	Sample	E_MGA55	N_MGA55	Description	Batch	Date	Sn_XRF	Sn_ICP	WO3	Ag	As	B	Ba	Be	Bi	Cr	Cu	Li	Ni	Pb	Rb	
H1001		metres	metres				%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
H1002		15	15																			
D	SGS096	352750	5388000	C horizon 20cm depth	AD11096027	29/06/2011	0.0009	0.00005	-0.0013	0.14	0.6	90	-10	1.06	0.02	26	1.8	19.7	2	0.7	5.6	
D	SGS097	352800	5388000	B horizon 15cm depth	AD11096027	29/06/2011	0.0008	0.00013	-0.0013	0.25	1.6	100	10	2.39	0.08	24	7.5	21.2	8.2	3.9	62.4	
D	SGS098	352850	5388000	B horizon 20cm depth	AD11096027	29/06/2011	0.0007	0.00022	-0.0013	0.36	1.1	40	30	3.56	0.05	26	2.8	15.1	2	11.5	232	
D	SGS099	352900	5388000	B horizon 15cm depth	AD11096027	29/06/2011	0.0007	0.00017	-0.0013	0.16	1.5	30	10	3.57	0.15	21	3.5	21.4	4.5	9	241	
D	SGS100	352950	5388000	B horizon 35cm depth	AD11096027	29/06/2011	0.0006	0.00015	-0.0013	0.17	0.7	70	10	2.88	0.06	21	1.5	19.7	1.6	7.4	194.5	
D	SGS101	353000	5388000	C horizon 50cm depth	AD11096027	29/06/2011	0.0006	0.00073	-0.0013	0.34	2.7	30	30	1.82	0.1	31	3.6	50.4	5.8	25.9	361	
D	SGS102	353050	5388000	B horizon 20cm depth	AD11096027	29/06/2011	0.0009	0.0001	-0.0013	0.29	0.9	140	10	3.34	0.03	26	3.2	20.6	3.3	2.2	24.2	
D	SGS107	352300	5388100	B horizon 35cm depth	AD11096027	29/06/2011	0.0007	0.0005	-0.0013	0.21	1.3	680	60	0.81	0.13	29	6	10	4.3	0.9	31.4	
D	SGS108	352350	5388100	B horizon 30cm depth	AD11096027	29/06/2011	0.0008	0.00019	-0.0013	0.16	1.1	130	30	1.7	0.22	19	2.3	10.8	2	6.9	180.5	
D	SGS109	352400	5388100	B horizon 25cm depth	AD11096027	29/06/2011	0.0005	0.00019	-0.0013	0.18	1.9	30	20	1.07	0.13	20	4.4	17.6	5.9	6.1	146.5	
D	SGS110	352450	5388100	B horizon 30cm depth	AD11096027	29/06/2011	-0.0005	0.00015	-0.0013	0.19	0.8	110	20	1.76	0.07	26	1.7	12.9	1.9	7.6	192.5	
D	SGS111	352500	5388100	B horizon 40cm depth	AD11096027	29/06/2011	0.0007	0.00014	0.0013	0.43	0.9	280	10	1.68	0.05	29	5.9	12.5	5.1	1.4	7.5	
D	SGS112	352550	5388100	B horizon 25cm depth	AD11096027	29/06/2011	-0.0005	0.00009	-0.0013	0.21	0.9	110	-10	1.14	0.05	17	2.2	20.2	2.3	1.8	20.5	
D	SGS113	352600	5388100	B horizon 25cm depth	AD11096027	29/06/2011	0.0005	0.0001	0.0013	0.39	0.9	130	-10	1.33	0.06	29	6.4	15.3	5.5	1.9	6.6	
D	SGS114	352650	5388100	B horizon 30cm depth	AD11096027	29/06/2011	-0.0005	0.00006	-0.0013	0.19	0.4	110	-10	1.24	0.03	24	2.2	19.9	2.8	-0.5	3.7	
D	SGS115	352700	5388100	B horizon 35cm depth	AD11096027	29/06/2011	0.0005	0.00006	-0.0013	0.13	0.9	120	-10	1.24	0.04	31	4.7	17.6	5.9	0.7	4.1	
D	SGS116	352750	5388100	B horizon 35cm depth	AD11096027	29/06/2011	0.0005	0.00005	-0.0013	0.13	0.5	90	10	2.92	0.05	22	2	19.9	2.6	2.1	28.2	
D	SGS117	352800	5388100	A horizon 10cm depth	AD11096027	29/06/2011	0.0008	0.0003	0.0025	0.35	2.3	60	30	3.58	0.53	23	8.4	28.3	7.1	18.3	206	
D	SGS118	352850	5388100	B horizon 25cm depth	AD11096027	29/06/2011	0.0007	0.00018	-0.0013	0.19	0.5	20	10	3.02	0.03	25	1.6	20.2	1.8	10.8	278	
D	SGS119	352900	5388100	B horizon 30cm depth	AD11096027	29/06/2011	-0.0005	0.00011	-0.0013	0.24	1.6	100	10	4.61	0.08	30	4.1	21.9	5.1	3.4	79	
D	SGS120	352950	5388100	B horizon 15cm depth	AD11096027	29/06/2011	0.0005	0.00021	-0.0013	0.21	0.7	50	20	3.08	0.14	16	1.6	24.6	5.6	7.4	251	
D	SGS121	353000	5388100	B horizon 40cm depth	AD11096027	29/06/2011	0.001	0.00012	0.0013	0.36	1.3	100	10	2.73	0.04	25	6.1	19.9	6.6	2.1	21.6	
D	SGS122	353050	5388100	B horizon 30cm depth	AD11096027	29/06/2011	0.0011	0.00012	-0.0013	0.4	0.6	160	10	1.15	0.04	213	2.9	19.1	2.3	2.7	26.9	
D	SGS123	352300	5388600	B horizon 17m depth	AD11096027	29/06/2011	0.0008	0.00023	-0.0013	0.18	1.7	150	20	0.58	0.14	26	7	10.5	6.9	5.1	18.6	
D	SGS124	352350	5388600	B horizon 36cm depth	AD11096027	29/06/2011	0.0005	0.0001	-0.0013	0.07	7	120	10	0.75	0.13	18	1.9	14.6	2.4	2.1	22.2	
D	SGS125	352400	5388600	B horizon 32cm depth	AD11096027	29/06/2011	-0.0005	0.00013	-0.0013	0.22	2.7	140	-10	0.9	0.1	15	2.9	20.5	3.4	1.2	19.7	
D	SGS126	352450	5388600	B horizon 23cm depth	AD11096027	29/06/2011	0.0009	0.00012	0.0013	0.36	1	270	10	2.53	0.17	22	4.5	9.8	2.4	1.5	5.9	
D	SGS127	352500	5388600	B horizon 25cm depth	AD11096027	29/06/2011	0.0006	0.0001	-0.0013	0.11	0.7	240	10	3.43	0.09	20	3.5	15.2	4.1	2.5	37.8	
D	SGS128	352550	5388600	B horizon 35cm depth	AD11096027	29/06/2011	-0.0005	0.00011	-0.0013	0.14	0.6	180	10	2.28	0.19	15	1.7	15.4	2	4.5	90.8	
D	SGS129	352600	5388600	B horizon 25cm depth	AD11096027	29/06/2011	0.0007	0.00011	-0.0013	0.11	1.1	460	-10	3.6	0.16	20	4.3	14.4	5.4	2.3	5.7	
D	SGS130	352650	5388600	B horizon 35cm depth	AD11096027	29/06/2011	0.001	0.00016	0.0013	0.17	0.9	370	10	4.15	0.18	18	2.1	16.9	2.3	3.7	92	
D	SGS131	352700	5388600	B horizon 35cm depth	AD11096027	29/06/2011	0.0006	0.00015	-0.0013	0.13	2	80	-10	1.85	0.22	18	3.6	21.6	4.4	0.6	23.3	
D	SGS132	352750	5388600	B horizon 45cm depth	AD11096027	29/06/2011	0.0005	0.00009	-0.0013	0.22	0.7	350	10	1.97	0.07	25	2.2	21.2	1.8	0.6	10.4	
D	SGS133	352800	5388600	B/C horizon 70cm depth	AD11096027	29/06/2011	0.0005	0.00005	-0.0013	0.05	0.4	110	-10	0.96	0.03	23	2.9	21.2	3.7	-0.5	4.4	
D	SGS134	352850	5388600	B horizon 19cm depth	AD11096027	29/06/2011	0.0007	0.00013	-0.0013	0.2	0.8	200	20	1.75	0.04	20	2	20.4	2.6	5.4	151.5	
D	SGS135	352900	5388600	B horizon 20cm depth	AD11096027	29/06/2011	0.0009	0.00015	-0.0013	0.16	1	90	20	1.77	0.04	25	3.9	13.4	4.4	5.9	171.5	
D	SGS136	352950	5388600	B horizon 20cm depth	AD11096027	29/06/2011	0.0008	0.00022	-0.0013	0.17	0.6	150	20	1.76	0.03	32	1.7	17.2	2	3.1	82.3	
D	SGS137	353000	5388600	B horizon 20cm depth	AD11096027	29/06/2011	0.0005	0.00011	-0.0013	0.22	1.1	130	-10	2.13	0.04	24	7.4	18.8	7.8	2.6	30	
D	SGS138	353050	5388600	B horizon 20cm depth	AD11096027	29/06/2011	0.0009	0.00014	0.0013	0.29	0.5	300	10	3.06	0.09	21	5	17.3	2.3	3.3	26.6	
D	SGS143	352300	5388300	B horizon 50cm depth	AD11096027	29/06/2011	0.0005	0.00037	-0.0013	0.21	1.1	120	60	0.67	0.18	22	5.9	16.8	5.6	0.8	37.6	
D	SGS144	352350	5388300	B horizon 45cm depth	AD11096027	29/06/2011	0.0006	0.00005	-0.0013	0.12	0.3	120	-10	0.62	0.05	18	1.5	15.4	1.9	-0.5	3.3	
D	SGS145	352400	5388300	B horizon 65cm depth	AD11096027	29/06/2011	0.0009	0.00033	-0.0013	0.27	2.6	130	20	2.2	1.52	15	3.4	27.7	3.8	9.2	282	
D	SGS146	352450	5388300	B horizon 30cm depth	AD11096027	29/06/2011	0.0005	0.00013	-0.0013	0.14	0.7	150	10	2.17	0.09	18	1.6	16.8	1.8	4	92.2	
D	SGS147	352500	5388300	B horizon 55cm depth	AD11096027	29/06/2011	0.0005	0.00017	-0.0013	0.32	2.1	130	10	1.85	0.23	30	4.6	18.4	4.8	2.6	33.2	
D	SGS148	352550	5388300	B horizon 50cm depth	AD11096027	29/06/2011	0.0006	0.00013	0.0013	0.22	1.7	140	-10	1.87	0.13	20	1.8	18.1	1.8	2.3	26.7	
D	SGS149	352600	5388300	B horizon 45cm depth	AD11096027	29/06/2011	0.0005	0.00005	-0.0013	0.08	0.7	120	-10	1.58	0.03	18	3	20.4	3.4	0.6	1.3	
D	SGS150	352650	5388300	A horizon 15cm depth	AD11096027	29/06/2011	0.0009	0.00016	-0.0013	0.18	1	70	30	1.9	0.06	27	2.2	17	2.8	10	211	
D	SGS151	352700	5388300	A horizon 25cm depth	AD11096027	29/06/2011	0.0009	0.00022	0.0013	0.32	1.3	40	20	1.81	0.09	31	2.9	24.5	3	8.5	227	
D	SGS152	352750	5388300	C horizon 30cm depth	AD11096027	29/06/2011	-0.0005	0.00012	0.0013	0.31	0.7	40	10	0.85	0.02	20	2.1	21.2	1.9	2	47.5	
D	SGS153	352800	5388300	A horizon 10cm depth	AD11096027	29/06/2011	0.0009	0.00016	0.0013	0.38	0.6	60	20	2.37	0.03	21	4.8	16.1	4.4	8.2	153.5	
D	SGS154	352850	5388300	B horizon 45cm depth	AD11096027	29/06/2011	0.0005	0.00016	0.0013	0.32	0.3	210	10	2.62	0.03	20	2.2	24	2.3	4	97.3	
D	SGS155	352900	5388300	C horizon 50cm depth	AD11096027	29/06/2011	0.0007	0.00018	0.0013	0.3	0.8	280	10	2.54	0.06	19	4	25.6	3.9	2	46	
D	SGS156	352950	5388300	C horizon 60cm depth	AD11096027	29/06/2011	0.0008	0.0001	-0.0013	0.26	0.4	170	-10	2.98	0.11	25	2	23.4	1.6	1.4	22.8	
D	SGS157	353000	5388300	A horizon 20cm depth	AD11096027	29/06/2011	-0.0005	0.00018	0.0013	0.36	1.7	230	30	6.7	0.15	22	5.5	18.7	6	9.6	156.5	
D	SGS158	353050	5388300	B horizon 40cm depth	AD11096027	29/06/2011	0.0005	0.0001	-0.0013	0.17	1	240	10	3.08	0.07	29	1.5	20.1	1	0.8	22.5	
D	SGS159	352300	5388400	B horizon																		

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H1000	Sample	E_MGA55	N_MGA55	Description	Batch	Date	Sn_XRF	Sn_ICP	WO3	Ag	As	B	Ba	Be	Bi	Cr	Cu	Li	Ni	Pb	Rb	
H1001		metres	metres				%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
H1002		15	15																			
D	SGS164	352550	5388400	B horizon 30cm depth	AD11096027	29/06/2011	-0.0005	0.00006	-0.0013	0.1	0.7	90	10	1.86	0.07	22	1.5	21.1	1.5	2	23.8	
D	SGS165	352600	5388400	B horizon 15cm depth	AD11096027	29/06/2011	-0.0005	0.00004	-0.0013	0.04	1.3	140	10	0.9	0.03	23	1.4	3.8	1	-0.5	29.2	
D	SGS166	352650	5388400	B horizon 20cm depth	AD11096027	29/06/2011	-0.0005	0.00005	-0.0013	0.08	0.5	70	-10	1.06	0.05	16	2.5	24.2	1.8	2.2	15.5	
D	SGS167	352700	5388400	B horizon 47cm depth	AD11096027	29/06/2011	0.0006	0.00013	0.0013	1.08	1.2	190	-10	2.1	0.09	26	6.5	16.3	4.9	0.7	4.3	
D	SGS168	352750	5388400	B horizon 25cm depth	AD11096027	29/06/2011	0.0008	0.00008	0.0013	0.36	1	60	10	4.01	0.05	17	3.2	12.7	1.5	5.4	34.6	
D	SGS169	352800	5388400	B horizon 35cm depth	AD11096027	29/06/2011	0.0006	0.00008	-0.0013	0.19	1.2	70	10	1.48	0.03	23	3.9	16.9	4.1	2.1	18	
D	SGS170	352850	5388400	C horizon 30cm depth	AD11096027	29/06/2011	-0.0005	0.00018	-0.0013	0.22	1.6	190	30	2.76	0.04	32	1.8	17.8	2.3	7.9	163	
D	SGS171	352900	5388400	B horizon 30cm depth	AD11096027	29/06/2011	0.0008	0.00011	-0.0013	0.24	1.1	210	10	4	0.05	35	4.7	16.9	5.1	4.3	42.8	
D	SGS172	352950	5388400	B horizon 20cm depth	AD11096027	29/06/2011	-0.0005	0.00007	-0.0013	0.12	1.1	190	10	2.89	0.13	20	1.4	21.1	1.8	0.8	21.5	
D	SGS173	353000	5388400	C horizon 30cm depth	AD11096027	29/06/2011	-0.0005	0.00008	-0.0013	0.12	1.3	130	-10	1.64	0.05	23	3.7	16.4	3.9	0.6	6	
D	SGS174	353050	5388400	B horizon 25cm depth	AD11096027	29/06/2011	0.0005	0.00024	0.0013	0.43	1.2	340	20	5.88	0.11	21	3.1	15.3	1.5	7.9	119	
D	SGS179	352300	5388500	B horizon 30cm depth	AD11096027	29/06/2011	0.0007	0.00028	-0.0013	0.17	1.7	340	50	0.49	0.09	39	4.4	7.8	3.4	-0.5	22.8	
D	SGS180	352350	5388500	B horizon 15cm depth	AD11096027	29/06/2011	0.0006	0.00025	-0.0013	0.23	1.6	230	20	1.77	0.15	19	3.8	12.7	4.3	3.5	32.8	
D	SGS181	352400	5388500	B horizon 20cm depth	AD11096027	29/06/2011	-0.0005	0.0003	-0.0013	0.19	1.7	170	20	1.49	0.15	25	4.6	16.6	6.7	3.8	60.2	
D	SGS182	352450	5388500	B horizon 20cm depth	AD11096027	29/06/2011	-0.0005	0.00011	-0.0013	0.16	0.8	190	-10	1.43	0.09	18	2	13.4	2	1.2	15	
D	SGS183	352500	5388500	B horizon 20cm depth	AD11096027	29/06/2011	0.0006	0.00006	-0.0013	0.11	1.5	100	-10	0.82	0.09	21	4.8	15.1	6.6	0.7	8.5	
D	SGS184	352550	5388500	B horizon 15cm depth	AD11096027	29/06/2011	0.0006	0.00017	-0.0013	0.23	1.6	60	20	3.19	0.22	16	1.6	19.3	1.4	8.3	158.5	
D	SGS185	352600	5388500	B horizon 20cm depth	AD11096027	29/06/2011	-0.0005	0.00008	-0.0013	0.18	1.3	50	-10	2.47	0.08	20	9.8	19.3	7.1	0.9	15.9	
D	SGS186	352650	5388500	B horizon 30cm depth	AD11096027	29/06/2011	0.0005	0.00016	-0.0013	0.22	0.2	270	10	3.34	0.1	21	2	17.8	2.7	6.4	50.1	
D	SGS187	352700	5388500	B horizon 30cm depth	AD11096027	29/06/2011	0.0007	0.00003	-0.0013	0.09	1.2	140	-10	1.74	0.03	22	1.9	5.2	1.4	-0.5	3.5	
D	SGS188	352750	5388500	B horizon 35cm depth	AD11096027	29/06/2011	0.0007	0.00006	-0.0013	0.22	0.9	130	-10	1.86	0.03	19	2.3	15.9	2.1	-0.5	4.4	
D	SGS189	352800	5388500	B horizon 20cm depth	AD11096027	29/06/2011	0.0009	0.00027	0.0013	0.49	2.8	200	30	4.1	0.09	20	4.2	17.6	3.8	11.9	242	
D	SGS190	352850	5388500	A/B horizon 20cm depth	AD11096027	29/06/2011	0.0006	0.00019	-0.0013	0.14	1.4	300	20	3.61	0.1	19	1.7	19.4	2.6	5.8	87.1	
D	SGS191	352900	5388500	B horizon 30cm depth	AD11096027	29/06/2011	0.0006	0.00014	-0.0013	0.2	1.7	190	10	2.82	0.08	20	3.9	18.5	4.3	3.2	67.7	
D	SGS192	352950	5388500	A/B horizon 15cm depth	AD11096027	29/06/2011	0.0006	0.00013	0.0013	0.27	1.1	70	10	5.68	0.04	16	2.5	16	5.1	10.5	117	
D	SGS193	353000	5388500	A/B horizon 20cm depth	AD11096027	29/06/2011	0.0006	0.00013	-0.0013	0.23	1.2	220	10	2.22	0.05	23	4.9	14.5	4.4	5.3	16.1	
D	SGS194	353050	5388500	A/B horizon 15cm depth	AD11096027	29/06/2011	0.0005	0.0001	0.0013	0.29	0.7	310	10	2.55	0.04	20	2.8	15.8	1.8	5	14.5	
D	SGS195	352300	5388200	A horizon 45cm depth	AD11096027	29/06/2011	0.0009	0.00018	-0.0013	0.14	0.9	50	30	0.45	0.17	29	4	8.4	3.6	4.9	26.3	
D	SGS196	352350	5388200	B horizon 30cm depth	AD11096027	29/06/2011	-0.0005	0.00007	-0.0013	0.03	0.6	10	10	0.71	0.08	16	1.2	11.6	1.5	6.3	64.3	
D	SGS197	352400	5388200	C horizon 20cm depth	AD11096027	29/06/2011	0.0005	0.00018	-0.0013	0.11	1.1	70	10	1.46	0.04	33	3.2	16.5	4.5	10.3	134	
D	SGS198	352450	5388200	B horizon 50cm depth	AD11096027	29/06/2011	0.0006	0.00003	-0.0013	0.13	0.5	10	-10	0.8	0.04	22	1.8	11.7	3.2	3.6	2	
D	SGS199	352500	5388200	B horizon 10cm depth	AD11096027	29/06/2011	-0.0005	0.00011	-0.0013	0.16	1.2	50	10	0.74	0.07	19	6.1	10.8	5.5	6.6	32.1	
D	SGS200	352550	5388200	A horizon 35cm depth	AD11096027	29/06/2011	0.0009	0.00025	-0.0013	0.46	3.6	170	40	1.75	0.14	24	2.7	16.3	1.8	13.7	201	
D	SGS201	352600	5388200	B horizon 25cm depth	AD11096027	29/06/2011	0.0006	0.00006	-0.0013	0.12	0.9	80	-10	1.93	0.04	30	4.4	13	4.6	3.2	6	
D	SGS202	352650	5388200	A horizon 40cm depth	AD11096027	29/06/2011	-0.0005	0.0002	0.0013	0.31	2.3	30	10	3.66	0.11	29	2.1	23.7	1.3	9.8	164.5	
D	SGS203	352700	5388200	B horizon 25cm depth	AD11096027	29/06/2011	0.0005	0.00011	0.0013	0.13	1	40	10	1.97	0.06	31	3	24.3	3.7	6.8	88.4	
D	SGS204	352750	5388200	B horizon 25cm depth	AD11096027	29/06/2011	0.0008	0.00021	0.0013	0.13	1	80	10	6.78	0.46	18	1.9	28.7	2.7	15	266	
D	SGS205	352800	5388200	B horizon 30cm depth	AD11096027	29/06/2011	0.0006	0.00015	0.0013	0.28	1.1	70	20	2.24	0.05	24	4.4	14	4.7	11.6	122	
D	SGS206	352850	5388200	A horizon 30cm depth	AD11096027	29/06/2011	0.0008	0.00023	0.0013	0.5	1.2	160	20	1.65	0.11	24	4	19.8	2.2	8	67.8	
D	SGS207	352900	5388200	C horizon 30cm depth	AD11096027	29/06/2011	-0.0005	0.00029	0.0013	0.41	1.6	130	30	2.84	0.08	31	4.6	19.6	4.7	11.8	168.5	
D	SGS208	352950	5388200	B horizon 40cm depth	AD11096027	29/06/2011	0.0008	0.00016	0.0013	0.16	0.7	220	20	4.57	0.07	15	2.3	18.5	2.6	13.2	182.5	
D	SGS209	353000	5388200	B horizon 40cm depth	AD11096027	29/06/2011	0.0007	0.00012	-0.0013	0.15	2.5	150	10	2.21	0.06	35	15.7	11.1	14.5	6.1	7.5	
D	SGS210	353050	5388200	B horizon 20cm depth	AD11096027	29/06/2011	-0.0005	0.00008	-0.0013	0.2	0.6	210	60	1.31	0.04	25	2.5	19	3	7.8	17.9	
EOF																						

Appendix D

LiDAR Thinned Ground Spot Heights

Datum Projection Geoid Model GDA94 MGA Zone 55 and Ausgeoid98

Project specifications and technical processes were designed to achieve vertical data accuracy of 0.30 m and horizontal <0.30 m (1/5500 flying height)