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**EL35/03 STEPHENS RIVULET-HAWKES CREEK
ANNUAL REPORT TO 9th April, 2007**

Volume 1 of 1

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1 Summary

- During December, 2006, a total of 29 vertical auger drill holes were put down in the Blackwater West silica deposit in EL35/03. These holes were in addition to 20 auger holes put down in 2004. Most of the Blackwater West deposit has now been tested by auger drilling.
- Visual assessment of the quality of the silica from the auger holes was made on-site during the drilling campaign and sets of samples from each auger hole were progressively forwarded to Cominex Pty Ltd during the program.
- The combined auger holes have delineated an inferred resource of 1,751,740 tonnes of pale coloured, probably commercial silica. This resource includes both silica flour and lump silica. The proportion of waste in the resource is unknown.
- Also during the current period, a total of 48 test pits were excavated in the Blackwater West deposit. A pit was put down to a depth of about 4 m adjacent to almost all 2006 and 2004 auger holes.
- Uncontaminated samples were obtained from the test pits and were progressively forwarded to Cominex Pty Ltd during the program. Analysis of these samples would provide an indication of the lateral chemical and grain size variations in the Blackwater West deposit at the indicated depth of about 4 m.
- Only a few laboratory results from the current period are to hand. Some discrepancies with earlier results are yet to be resolved.

2 Introduction

EL35/03 consists of two separate blocks of land (Figure 1). A block of 3 km² is situated in State Forest on the south side of the Arthur River, near Stephens Rivulet, and is referred to as the Blackwater West prospect. Access is gained to the block via Forestry Tasmania's Blackwater Number 1 Spur Road. A block of 2 km² on the north side of the Arthur River, near Hawkes Creek, is also situated in State Forest and is referred to as the Hawkes Creek prospect. Access to this block is gained via Chatlee Road.

Previous work in EL35/03 is outlined in reports listed in the reference section below. Notably, a program of auger drilling and test pitting was carried out in the Blackwater West and Hawkes Creek prospects in November, 2004 (Turner, 2005). The regional geology is also outlined in the listed reports.

Grid coordinates cited in this report are relative to AGD66. Both the AGD66 grid and the GDA94 grid are shown in Figure 2.

3 Work carried out in the current period

The focus of exploration work in the current period was the Blackwater West prospect where a further round of auger drilling and test pitting was carried out in December, 2006 (Figure 2). This work was facilitated by the existence of established road and track access as a result of previous forestry activities. Some of the tracks were overgrown and were reopened with a 14 tonne excavator.

Stacpoole Enterprises Pty Ltd of Launceston carried out the drilling with a track mounted CMV Geomeccanica Mk 600 rig supported by a flat tray, 4WD utility vehicle. Solid flight augers were used and a set of samples was collected from each hole by periodically withdrawing the drill string and taking material from the bottom 0.5 m of the leading rod. This method enabled an on-site visual assessment of the character and thickness of the silica. Samples were progressively forwarded to Cominex Pty Ltd during the course of the program.

As previously stated (Turner, 2005) auger drilling is an unsatisfactory sampling method for geochemical work due partly to steel contamination. This steel contamination is caused mostly by the grinding action of the auger bit, but also by passage of the drilling product across the steel surfaces of the auger flights. In particular, prior to the beginning of a period of drilling the cutting edges of the auger bits were built up by the application of 10-12 mm of hard weld. This weld was gradually sacrificed over the drilling period producing contamination in the drilling product. Contamination of auger samples may also be caused by mixing with materials from other parts of the drill hole, particularly in damp or wet holes.

In the current round of work uncontaminated silica samples were obtained from test pits that were mostly dug to a depth of about 4 m by the 14 tonne excavator. Test pits were dug adjacent to almost all the 2006 and 2004 drill collars with the limited number of previous, shallower, 2004 test pits being repeated. Most samples were collected from test pit walls at about 4 m depth with a wooden implement that was used to scrape away material contaminated by the steel bucket of the excavator and to dig out the silica sample. The overall set of uncontaminated test pit samples from Blackwater West could provide an indication of the lateral chemical and grain size variations in the deposit at the indicated depth of about 4 m.

4 Results

Logs for the auger drilling and test pitting at Blackwater West are presented in Appendix 1 and Appendix 2 respectively. Details for a small number of 10 kg, test pit samples are given in Appendix 3 and some preliminary laboratory results are given in Appendix 4.

Samples from the auger holes and test pits are stored in one of Cominex's sheds at Corinna. There are duplicate samples for each of the test pits.

5 Conclusions

5.1 MATERIALS

It is likely that very pale coloured silica flour at Blackwater West is of commercial quality though comprehensive geochemical and particle size testing is needed to confirm this. The promising colours include white, cream, off-white and very pale brown. Grinding and mixing by the augers of fine, brown, plant rootlets that are widespread in the silica probably contributed to the brown colouration. Also, a tiny proportion of pale brown clay is present in thin seams in some of the silica.

The product of the auger drilling was almost entirely in the form of disaggregated quartz silt and quartz sand (silica flour) with varying proportions, usually minor, of coarse grit and larger particles. However, some of the 4 m test pits revealed that the silica flour undergoes a downwards transition to friable rock (lump silica) that still returns silica flour as the auger drilling product. The in situ lump silica commonly displays several sets of close-spaced, planer joints and its texture is generally massive, granular, friable and porous. No sedimentary textures or bedding were recognized and the friable lump silica is regarded as a leached alteration product.

Hardness of the friable lump silica varies from very soft (being readily crushed in the hand) to moderately hard. Hard, banded and crystallised lump silica ('lacy agate') is associated with coarse grained (sandy) silica flour in the western part of the Blackwater West prospect. An indication of the combined proportion of hard and moderately hard lump silica in excavated test pit material is given by colour coding of locality symbols in Figure 2.

Only limited laboratory results are to hand for the Blackwater West deposit at this time. Particle size analyses and geochemical analyses for ten, 2004 test pit samples are given in Turner (2006). These samples were collected at depths of 2-2.7 m using a wooden implement. Results for two 10 kg samples collected in 2006 at sites approximately coincident with the previous test pits ATP1/04 and ATP9/04 (Appendix 4) show marked discrepancies in the values for some elements, notably iron. These discrepancies are the subject of further investigation.

In comparison to the Corinna silica flour deposits, the Blackwater West silica deposit is drier. Also, there appears to be more lump silica though much of the lump silica at Blackwater West is quite soft. Dark brown, organic-rich, silica flour that occurs erratically in patches through the commercial flour at Corinna appears to be restricted to the bottom of the Blackwater West deposit. Tertiary

gravel caps much of the silica flour at Corinna whereas only a little pebbly alluvial sand of uncertain age was encountered at Blackwater West (Figure 2).

5.2 INFERRED RESOURCES

The depth interval of probably commercial silica for each hole used in the resource calculation is shown in Table 1 along with the thickness used in the calculation. Small discrepancies in the numbers mostly reflect minor uncertainty about the depth of some changes and conservative values of thickness have been generally selected. It must be emphasized that the drilled intervals include both silica flour and lump silica of varying hardness.

Five types of ground have been distinguished at Blackwater West (Figure 2). Twenty four drill holes (Table 1) have been used to delineate an area of deep resource in which pale coloured silica has an average thickness of 13 m. Fourteen drill holes have been used to delineate a contiguous area of shallow resource in which pale coloured silica has an average thickness of 5.9 m.

AAH Number	Depth Interval (m)	Thickness (m)	AAH Number	Depth Interval (m)	Thickness (m)
10/04	0.5-5	4.5	56/06	0.3-18.3	18
11/04	0.3-12.3	12	58/06	0.4-12.3	11.5
12/04	0.3-12.1	11.5	59/06	0.3-10.8	10
13/04	0.3-15.3	14.5	60/06	0.3-10.8	10.5
14/04	0.3-11.3	10.5	61/06	0.3-13.8	13.5
18/04	0.3-3.8	3.5	63/06	0.5-14.5	14
19/04	0.3-5.3	4.5	64/06	1.8-9.3	7.5
20/04	0.5-11.5	10.5	65/06	0.3-7.8	7.5
21/04	0.3-12.3	12	66/06	0.5-16.5	16
22/04	0.3-1.8, 2.8-13.8	13	67/06	0.5-11	10.5
23/04	0.3-8	7.5	68/06	0.3-17.8	17.5
24/04	0.3-5.3	4.5	69/06	0-4.5	4.5
26/04	0.3-6.3	5.5	70/06	0-12	12
27/04	0.3-5.2	5	72/06	0.5-6.5	6
28/04	0.3-18.3	18	73/06	?0.3-10.8	?10.8
29/04	0.3-12.1	11.5	74/06	0-6	6
52/06	0.6-20.6	20	75/06	0.5-9	8.5
53/06	0.3-7.8	7.5	76/06	4-20	16
54/06	0.3-9.3	9	77/06	0.5-12.5	12
55/06	0.3-10.25	10			

Table 1: Showing auger holes used in the resource calculations, the depth interval of probably commercial silica below the natural surface, and the thickness of silica used in the calculation. Holes used for the deep resource calculation are shown in bold print while holes used for the shallow resource calculation are in normal print. AAH73/06 was not used in the averaging.

Silica also underlies the area surrounding the identified resources. Drilling has shown the silica to be thin in part of this surrounding area. However, there are some untested areas remaining though it is likely that the silica in these areas is also relatively thin. An area in which the silica appears to be relatively hard, lump silica has also been delineated.

The inferred resources for the currently delineated areas are as follows:

1.	Area of deep resource	47,950 m ²
	Average thickness	13 m
	Volume of resource	623,350 m ³
	Density of silica flour	2 tonnes/m ³
	Mass of resource	1,246,700 tonnes
2.	Area of shallow resource	42,800 m ²
	Average thickness	5.9 m
	Volume of resource	252,520 m ³
	Density of silica flour	2 tonnes/m ³
	Mass of resource	505,040 tonnes
	Total inferred resource	1,751,740 tonnes

6 Environmental matters

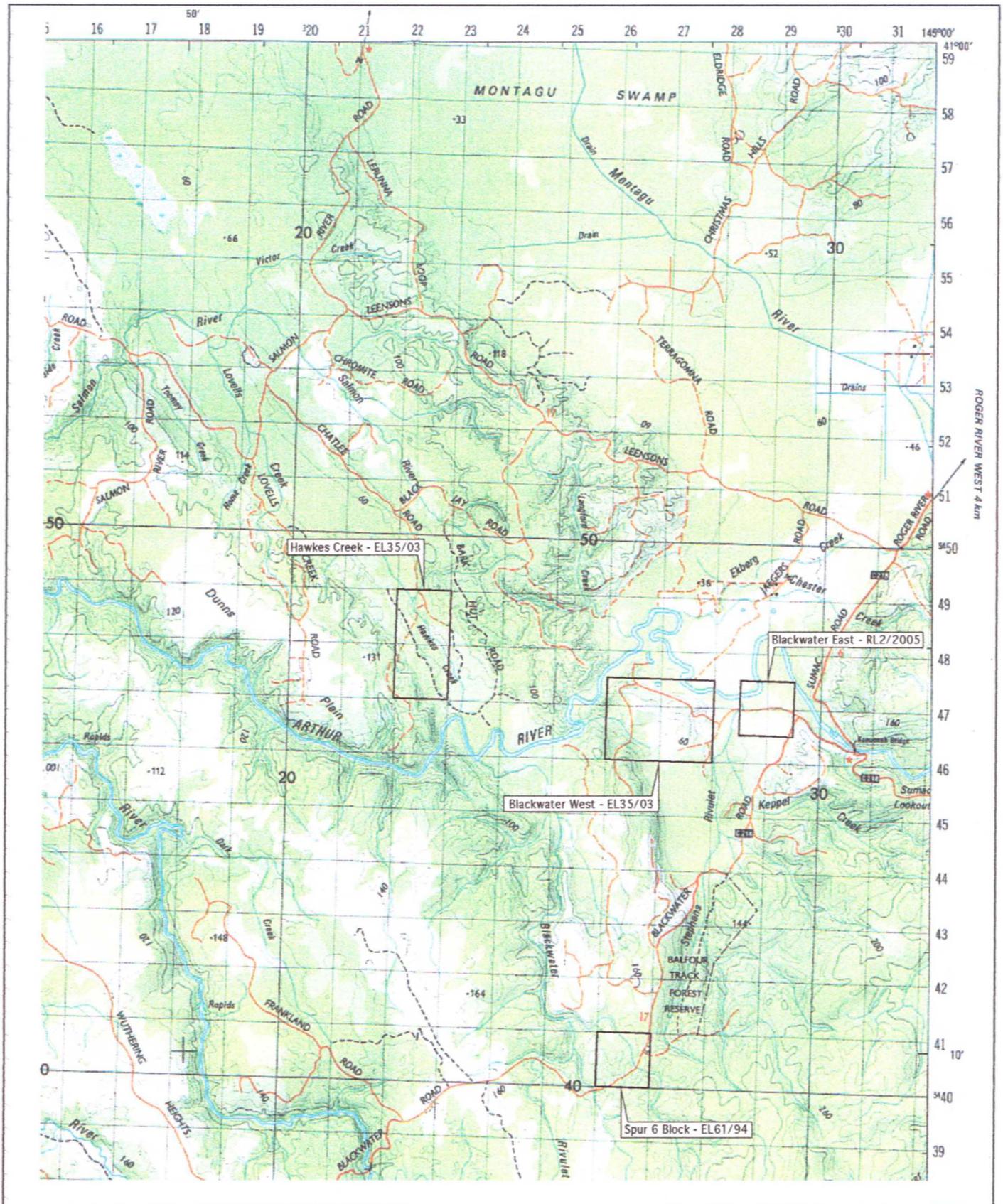
The reopened tracks at Blackwater West remain open, but numerous grips and mounds have been constructed in order to minimise erosion. As the drilling rig did not require special preparation of drill pads, there were no drill sites to rehabilitate. All test pits were backfilled immediately upon completion of logging and sampling.

7 References

Turner N. J. 2000. EL61/94 Arthur River. Interim report to 31st May 2000. Cominex Pty Ltd.

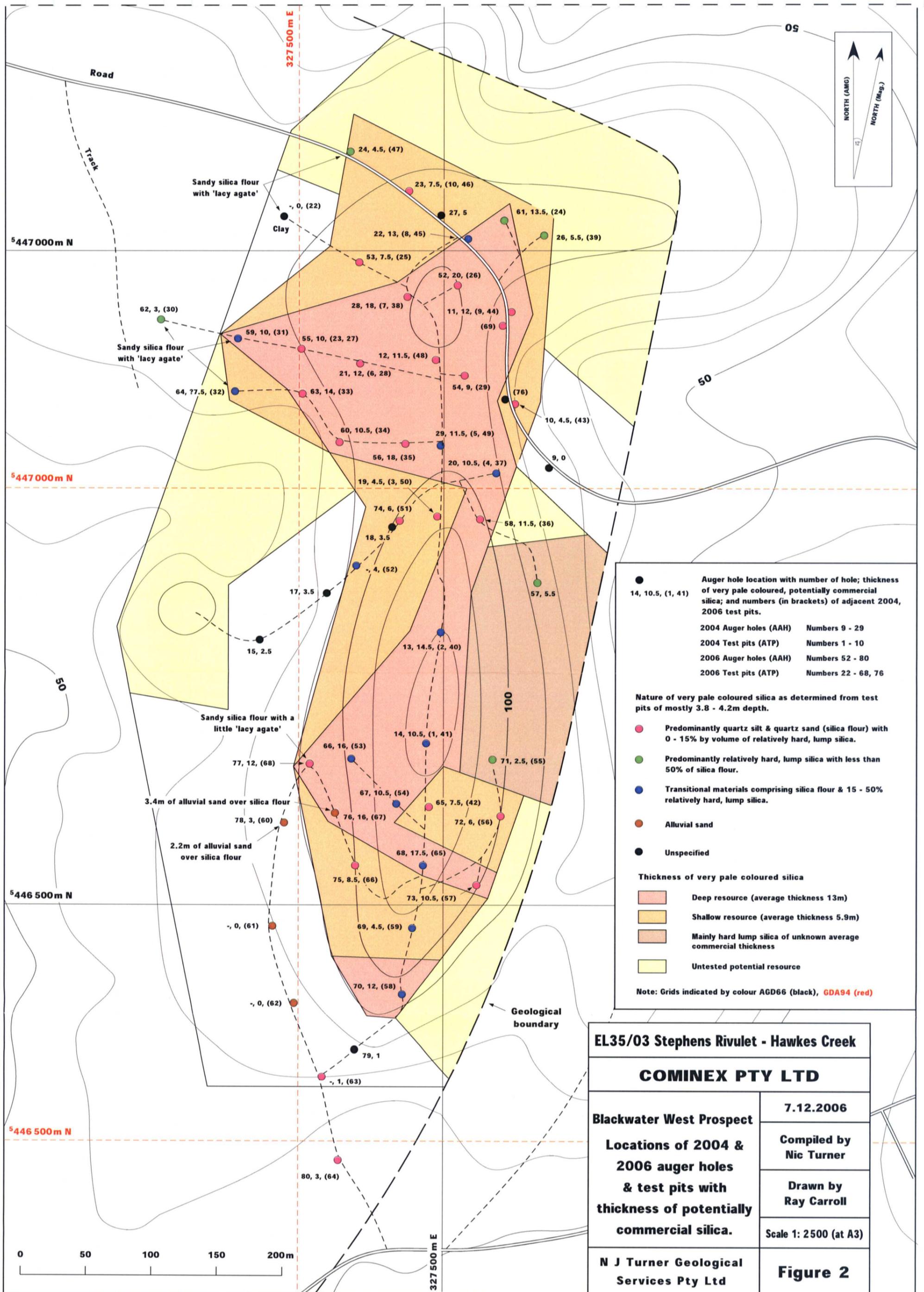
Turner N. J. 2005. EL35/03 Stephens Rivulet-Hawkes Creek. Annual report to 9.3.05. Cominex Pty Ltd and Sumitomo Australia Pty Ltd.

Turner N. J. 2006. EL35/03 Stephens Rivulet-Hawkes Creek. Annual Report to 9.4.06. Cominex Pty Ltd and Sumitomo Australia Ltd.



The base map is portion of the Nelson Bay 1:100,000 sheet, Land Information Services, Tasmania.

Figure 1: Locality map of Cominex Pty Ltd's tenements in the Arthur River district, north west Tasmania, as at 7.12.2006.



EL35/03 Stephens Rivulet - Hawkes Creek	
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Blackwater West Prospect Locations of 2004 & 2006 auger holes & test pits with thickness of potentially commercial silica.	7.12.2006
	Compiled by Nic Turner
	Drawn by Ray Carroll
	Scale 1: 2500 (at A3)
N J Turner Geological Services Pty Ltd	Figure 2

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7th January, 2007

EL35/03 Stephens Rivulet-Hawkes Creek. Annual Report to 9/4/07

Appendix 1: Blackwater West auger drill logs, 2006. AMG coordinates were determined with a hand held GPS (Magellan 315).

Auger Hole Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
AAH52/06	327509	5446973	Surface	About 0.3 m of humus and soil removed during site preparation.
			0-0.3	Silica flour discoloured by humus.
			0.3-13.5	Very pale brown, dry, silica flour with a few small patches of pale brown colour. Substantial fines. Sparse, small fragments of vughy, granular, white quartz. Very minor, small, brown, clayey patches.
			13.5-16.5	Silica flour becomes grittier, but still substantial fines. Contains small, angular lumps of granular quartz up to 10 mm across.
			16.5-21	Less gritty. Colour grades to more uniformly pale brown. Still dry.
			21-22.5	Dark brown, organic-rich, silica flour.
AAH53/06	327433	5446990	Surface	About 0.3 m of humus and soil removed by track construction
			0-7.5	Very pale brown, dry, silica flour with substantial fines.
			7.5-9	Dark brown, organic-rich, silica flour. Passes down into orange-brown, limonitic, silica flour.
AAH54/06	327514	5446904	0-0.5	Grey soil consisting of silica flour and humus. Partly fill from site preparation.
			0.5-5.5	Very pale brown, slightly damp, silica flour.
			5.5-9.5	Mottled very pale brown and white, silica flour.
			9.5-10.5	Medium brown, silica flour. The colour derives from a coating on the quartz grains.
AAH55/06	327392	5446927	0-0.3	Grey soil consisting of silica flour and humus.
			0.3-10.25	Mottled very pale brown and cream, dry, silica flour with substantial fines.
			10.25-10.5	Dark brown, organic-rich flour.

Auger Hole Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
AAH56/06	327469	5446855	Surface	About 0.3 m of grey soil comprising silica flour and humus removed during track construction.
			0-18	Cream, dry, silica flour with substantial fines. Grades to very pale brown colour at 13 m. A few very small, clayey patches are present at 8.5-12 m, with minor small lumps of granular quartz at 8.5-9 m.
			18-19.5	Very dark brown, organic-rich, saturated, silica flour.
AAH57/06	327570	5446822	0-0.5	Fill from site preparation.
			0.5-6	Slow drilling through mixed relatively soft and hard, granular, lump silica. Auger product is very pale brown, very gritty and contains plentiful fragments of lump silica.
			6-9	Auger product becomes a gritty mixture of very pale brown/grey, silica flour and pale orange, silica flour. Latter colour due to coating on quartz grains.
			9	End of hole. Could have continued drilling at a very slow rate through lumpy material.
AAH58/06	327526	5446794	Surface	Collared in a bulldozed track at about 0.7 m below the natural surface. Approximately 0.4 m of grey soil in track cutting.
			0-12	Cream, dry, silica flour with substantial fines and a little hard, granular, lump silica.
			12-13.5	Straight into mixed patches of dark brown and bright yellow silica flour. Colours due to coatings on the quartz grains – organic and iron hydroxides.
AAH59/06	327343	5446932	Surface	About 0.3 m of grey soil removed during track preparation.

Auger Hole Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
			0-6	Very pale brown, slightly damp, silica flour. Relatively coarse grained, sandy flour with minor fines.
			6-10.5	Medium to coarse grained, angular, quartz sand of good off-white colour.
			10.5	End of hole due to refusal on hard lump silica.
AAH60/06	327421	5446856	Surface	About 0.3 m of humus and grey soil removed during track preparation.
			0-10.5	Very pale brown and cream, dry, silica flour with substantial fines.
			10.5-16	Good colour and texture, but scattered, small (2 mm) patches of very fine grained black mineral present.
			16-16.5	Dark brown, organic-rich, silica flour with a moderate amount of granular lump silica.
AAH61/06	327546	5447022	Surface	About 0.3 m of humus and grey soil removed during site preparation.
			0-3	Mottled pale and medium brown, silica flour with substantial fines.
			3-4.5	Very pale brown, silica flour with minor medium and dark brown patches. Gritty texture.
			4.5-7.5	Very pale brown grading to off-white. Proportion of granular lump silica increases. Very minor patches of medium and dark brown colour due to coating on quartz grains.
			7.5-13.5	Mostly very pale brown, silica flour with common lump of massive, uniform, granular quartz. Pale brown and minor, medium brown patches present.
			13.5-15	Dark brown silica flour.
AAH62/06	327284	5446949	Surface	About 0.3 m of humus and grey soil removed during site prep.

Auger Hole Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
			0-1.5	Medium brown, silica flour with abundant hard, lump silica.
			1.5-4.5	Cream and very pale brown, sandy, silica flour with minor darker mottling.
			4.5-7.5	Pale brown, silica flour with a little medium brown mottling. Abundant lump silica.
			7.5-9	Medium brown, sandy, silica flour with abundant lump of granular quartz and coarsely crystalline quartz.
AAH63/06	327392	5446893	Surface	About 0.5 m of humus, grey soil and silica flour removed during track construction.
			0-14	Mottled very pale brown and minor pale brown silica flour with substantial fines.
			14-16.5	Medium brown, silica flour passes down into very dark brown, silica flour. Saturated.
AAH64/06	327342	5446892	Surface	About 0.3 m of humus and grey soil removed during site preparation.
			0-1.5	Brown, humus-rich, silica flour.
			1.5-6	Very pale brown, sandy, silica flour containing substantial lump material. Sparse, small patches of medium and dark brown, silica flour present.
			6-9	Auger grinding through lump silica that includes grey, banded and crystalline quartz ('lacy agate'). Sample comprises very pale brown and cream, gritty, silica flour with abundant lump silica.
AAH65/06	327489	5446573	Surface	About 0.3 m of humus and grey soil removed during track construction.
			0-7.5	Very pale brown, silica flour with minor pale brown patches. Lump silica abundant near 7.5 m.

Auger Hole Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
			7.5-9	Pass into bright buff, silica flour. Colour due to coating on quartz grains.
AAH66/06	327430	5446612	Surface	About 0.5 m of humus and grey soil removed during track preparation.
			0-4.5	Very pale brown, silica flour with minor dark brown stringers of organic material. Substantial fines, trace lump silica.
			4.5-7.5	Pale brown, sandy, silica flour with small, darker patches. No lump.
			7.5-16	Cream and very pale brown, sandy, silica flour with minor pale to dark brown patches. A little lump present.
			16-16.5	Patchy dark brown and bright orange, silica flour. Colours due to coatings on quartz grains.
AAH67/06	327456	5446576	Surface	About 0.5 m of humus and grey soil removed during track preparation.
			0-6	Mottled very pale brown and pale brown, silica flour with substantial fines and common granular, lump silica.
			6-10.5	Very pale brown and cream, silica flour with common granular, lump silica.
			10.5-12	Auger grinding hard. Sample comprising gritty, orange, silica flour.
AAH68/06	327485	5446528	Surface	About 0.3 m of humus and grey soil removed during track preparation.
			0-17.5	Very pale brown, dry, silica flour with substantial fines. Minor pale brown silica. Common lump of granular silica at 4.5-6 m and 11.5-17 m.
			17.5-21	Mostly pale brown, silica flour. Auger grinding hard by 21 m.

Auger Hole Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
AAH69/06	327478	5446482	0-4.5	Very pale brown, silica flour with substantial fines and common lump of granular quartz.
			4.5-6	Mixed pale brown and orange, silica flour.
AAH70/06	327472	5446432	0-6	Very pale brown, silica flour with substantial fines and minor lump silica.
			6-12	Very pale brown, silica flour with common lump of granular silica.
			12-13.5	Bright orange, silica flour. Colour due to coating on quartz grains.
AAH71/06	327538	5446610	Surface	About 0.5 m of humus and grey soil removed during site preparation.
			0-1.5	Mottled medium brown and minor, very pale brown, silica flour with minor lump of granular silica.
			1.5-4.5	Very pale brown, gritty, silica flour with subordinate pale brown mottling.
			4.5-7.5	Darker brown colours, very lumpy.
			7.5-9	Orange, silica flour.
AAH72/06	327543	5446566	Surface	About 0.5 m of humus and grey soil removed during track preparation.
			0-6	Very pale brown, silica flour with substantial fines and minor lump of granular silica.
			6-7.5	Medium brown, silica flour.
			7.5-9	Pass into orange clay and silica flour.
AAH73/06	327526	5446513	Surface	About 0.3 m of humus and grey soil removed during site preparation.
			0-4.5	Pale brown, silica flour with substantial fines and negligible lump silica.
			4.5-10.5	Very pale brown, silica flour with substantial fines and negligible lump silica.

Auger Hole Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
			10.5-12	Silica flour with dark brown patches.
AAH74/06	327466	5446792	Surface	Adjacent AAH18/04
			0-6	Very pale brown, silica flour with substantial fines and negligible lump silica. Trace of orange, silica flour at 1.5-3 m.
			6-9	Orange and orange-brown, silica flour with clay patches. Passes to mottled dark brown and white, silica flour with depth.
AAH75/06	327435	5446530	Surface	About 0.5 m of humus and grey soil removed in track preparation.
			0-8.5	Very pale brown, silica flour with substantial fines and minor lump silica.
			8.5-9	Bright orange, silica flour.
AAH76/06	327435	5446530	Surface	About 0.5 m of humus and grey soil removed by track building together with 0.5 m of alluvial sand.
			0-3	Medium brown, coarse grained, quartz sand with sparse, small, well-rounded pebbles of vein quartz. Bottom contact not readily discernible.
			3-19	Very pale brown and minor pale brown, silica flour with moderate fines. Gritty, but with negligible lump silica.
			19-21	Slightly yellowish after 19 m. Followed by flour with dark brown mottling after 19.5 m. Also, more grit as well as small lump of granular silica.
AAH77/06	327399	5446607	Surface	About 0.5 m of humus and grey soil removed during track construction as well as 0.5 m of very pale brown, silica flour.
			0-1.5	Very pale brown, sandy, silica flour.
			1.5-7.5	Very pale brown, silica flour with

Auger Hole Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
				substantial fines and negligible lump silica.
			7.5-12	Colour off-white. Otherwise similar 1.5-7.5 m.
			12-15	Passes to medium brown, silica flour.
AAH78/06	327380	5446564	Surface	About 0.3 m of humus and grey soil removed during site preparation.
			0-1.5	Alluvial sand.
			1.5-5.5	Very pale brown, silica flour with substantial fines, minor grit.
			5.5-6	Dark brown, silica flour.
AAH79/06	327434	5446389	Surface	About 0.5 m of humus and grey soil removed during site preparation.
			0-1.5	Pale brown, silica flour with substantial fines and little grit or lump silica.
			1.5-3	Dark brown and orange-brown, silica flour.
AAH80/06	327422	5446307	Surface	About 0.3 m of humus and grey soil removed during track preparation.
			0-3	Pale brown, silica flour with substantial fines.
			3-4.5	Very dark brown and orange-brown, silica flour.

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Appendix 2: Blackwater West test pit logs, 2006. AMG coordinates were determined with a hand held GPS (Magellan 315).

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
ATP22/60	327378	5447027	Surface	About 0.3 m of humus and grey organic-rich soil removed during site preparation.
			0-0.5	Mixed silica flour and clay with lump of 'lacy agate'.
			0.5-1.5	Mottled pale yellow and brown clay.
ATP23/06	327392	5446927	Surface	AAH55/06, ATP27/06 at same site.
			0-0.5	Humus and grey soil comprising silica flour and humus.
			0.5-1.5	Cream, dry, silica flour with a little massive, granular, friable, lump silica. Samples 2Xsilica flour from 1.25 m.
ATP24/06	327546	5447022	Surface	AAH61/06 at same site. About 0.3 m of humus and grey soil removed during site preparation.
			0-3.1	The pit exposes silica rock (lump silica) and subordinate silica flour. The lump silica is massive, granular and of very pale colour. It is friable and ranges from very soft to moderately hard. It is porous (due to leaching?) and several short sets of planar joints are strongly developed. No bedding or sedimentary textures were recognised. Samples 2Xsilica flour and 2Xlump silica from 2.7 m.
ATP25/06	327433	5446990	Surface	AAH53/06 at same site. About 0.3 m of humus and grey soil removed by track construction.
			0-4.4	Dry, pale coloured, silica flour with substantial fines. About 10% soft lump silica in excavated pile. Samples 2Xsilica flour from 4 m.
ATP26/06	327509	5446973	Surface	AAH52/06 at same site. About 0.3 m of humus and grey soil.

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
				removed during site preparation
			0-3.9	Very pale brown, dry, silica flour with substantial fines. No lump silica in excavated pile. Plant roots to bottom of pit. Samples 2Xsilica flour from 3.7 m.
ATP27/06	327392	5446927	Surface	AAH55/06 and ATP23/06 at the same site.
			0-4	Cream, dry, silica flour with substantial fines. About 5% relatively hard lump silica in excavated pile. Not many plant roots below 1m, common above 1 m. Samples 2Xsilica flour at 2.7 m.
ATP28/06	327437	5446914	Surface	AAH21/04 and ATP6/04 at same site. About 0.3 m of humus and grey soil removed during site preparation.
			0-4	Very pale brown and minor pale brown, dry, silica flour. Fairly sandy. About 10% hard lump silica in excavated pile. Samples 2Xsilica flour at 3.7 m.
ATP29/06	327514	5446904	Surface	AAH54/06 at same site.
			0-3.6	Very pale brown, silica flour with a little medium brown mottling. Includes patch of bright orange silica flour with sharp boundaries and measuring 1.5 m X 1 m X ≥2 m. No hard lump silica in excavated pile. Samples 2Xsilica flour at 3.3 m.
ATP30/06	327284	5446949	Surface	AAH62/06 at the same site. About 0.3 m of humus and grey soil removed during site preparation.
			0-4	Damp, pale brown, gritty, silica flour with abundant hard, lump silica. Latter comprises grey and white (minor red and orange) 'lacy agate' with

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
				subordinate massive, granular, lump silica. About 55% hard lump silica in excavated pile. Samples 2Xsilica flour from excavated pile.
ATP31/06	327343	5446932	Surface	AAH59/06 at same site. About 0.3 m of humus and grey soil removed during track preparation.
			0-3.6	Very pale brown, damp, sandy silica flour. Hard digging. About 45% hard lump silica in excavated pile. Mainly massive, granular, lump silica with a little 'lacy agate'. Samples 2Xsilica flour from excavated pile.
ATP32/06	327342	5446892	Surface	AAH64/06 at same site. About 0.3 m of humus and grey soil removed during track preparation.
			0-0.5	Abundant roots and organic material in silica flour.
			0.5-4.1	Very pale brown, damp, sandy, silica flour with minor fines. Roots common to bottom of pit. About 35% of hard lump silica in excavated pile. Lump consists of grey and white 'lacy agate' (minor orange and red colours). Samples 2Xsilica flour at 3.8 m.
ATP33/06	327392	5446893	Surface	AAH63/06 at same site. About 0.5 m of humus, grey soil and silica flour removed during track construction.
			0-4	Off-white, slightly damp, silica flour with substantial fines. Roots to bottom of pit. Contains patch of orange silica flour with sharp black rim and dimensions of 1.25 m X 2.5 m X 1 m. No hard lump in excavated pile. Samples 2Xsilica flour at 3.7 m.

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
ATP34/06	327421	5446856	Surface	AAH60/06 at same site. About 0.3 m of humus and grey soil removed during track preparation.
			0-3.8	Very pale brown, slightly damp, silica flour with substantial fines. Minor plant roots to 2.8 m. Less than 3% hard lump silica in excavated pile. Samples 2Xsilica flour at 3.5 m.
ATP35/06	327469	5446855	Surface	AAH56/06 at the same site. About 0.3 m of grey soil removed during track construction.
			0-4	Very pale brown, slightly damp, silica flour with substantial fines. Includes patch of bright red-brown silica flour with sharp margins, but unknown dimensions. Plant roots to near bottom of pit. About 10% of hard, vughy, lump silica in excavated pile. Samples 2Xsilica flour at 3.7 m.
ATP36/06	327526	5446794	Surface	AAH58/06 at same site. About 0.7 m of humus, grey soil and silica flour removed during track preparation.
			0-3.9	Very pale brown, slightly damp, silica flour with substantial fines. Plant roots to bottom of pit. About 15% hard lump of massive, granular silica in excavated pile. Samples 2Xsilica flour at 3.6 m.
ATP37/06	327528	5446819	Surface	AAH20/04 and ATP4/04 at same site.
			0-0.5	Humus over grey sandy soil.
			0.5-1.5	Mostly very pale brown, silica flour with substantial fines.
			1.5-3.7	Mostly pale coloured, massive, granular, silica rock with distinctive short jointing. Much

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
				of the rock is soft enough to be crushed in the hand, but about 35% of the excavated pile comprises hard and moderately hard, lump silica. Samples 2Xsilica flour from 3.4 m.
ATP38/06	327473	5446964	Surface	AAH28/04 and ATP7/04 at the same site. About 0.3 m of humus and grey soil removed by track construction.
			0-2.5	Very pale brown, slightly damp flour that dries off-white. Contains substantial fines
			2.5-4	Large proportion of pale, soft, friable, massive, silica rock. Mostly easily crushed. Rock contains scattered, thin seams (≤ 10 mm) in which pale brown clay coats the quartz grains. Very little hard lump silica in excavated pile. Samples 2Xsilica flour at 3.7 m.
ATP39/06	327576	5447012	Surface	AAH26/04 at same site. About 0.3 m of mostly humus removed during site preparation.
			0-4.1	Predominantly massive, pale, granular, silica rock that displays short jointing. Minor tree roots to bottom of hole. Excavated pile comprises very pale brown, silica flour with substantial fines and about 30% relatively hard lump silica. Samples 2Xsilca flour and ?2Xlump silica from 3.8 m.
ATP40/06	327498	5446710	Surface	AAH13/04 and ATP2/04 at the same site. About 0.3 m of mostly humus removed during track construction.
			0-2.5	Very pale brown, silica flour with minor lump silica.
			2.5-3.9	Predominantly short jointed, pale, massive, granular, lump

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
				silica. Minor tree roots to bottom of pit. Excavates as very pale brown, silica flour with substantial fines and about 30% of relatively hard, lump silica. Samples 2Xsilica flour and 2Xlump silica at 3.6 m.
ATP41/06	327486	5446622	Surface	AAH14/04 and ATP1/04 at the same site. About 0.3 m of mostly humus removed during track making.
			0-4	Mostly off-white, massive, granular, friable, short jointed, lump silica. Excavates as very pale brown, silica flour with substantial fines, but gritty and with about 50% relatively hard, lump silica. Samples 2Xsilica flour at 3.7 m.
ATP42/06	327489	5446573	Surface	AAH65/06 at same site. About 0.3 m of humus and grey soil removed during track construction.
			0-2.5	Predominantly very pale brown, silica flour with substantial fines.
			2.5-4	Increase in proportion of massive, granular, lump silica. Excavates as very pale brown, silica flour with substantial fines and about 10% hard, lump silica. Samples 2Xsilica flour at 3.7 m.
ATP43/06	327550	5446879	Surface	AAH10/04 at same site. Soil (?0.3m) removed during road building.
			0-4.1	Very pale brown, silica flour with substantial fines. About 5% of hard, massive, granular, lump silica in excavated pile. Samples 2Xsilica flour at 3.8 m.
ATP44/06	327550	5446952	Surface	AAH11/04 and ATP9/04 at same site. About 0.3 m of humus and grey soil removed

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
				by road building.
			0-?4	Mostly very pale brown, silica flour with substantial fines. Near the bottom of the pit pale, massive, granular, jointed, lump silica becomes prominent. This material contains sparse, thin seams (2 mm) of grey, granular quartz and of limonite. It excavates as very pale brown, silica flour with about 15% hard lump silica. A patch of orange-brown, silica flour with dimensions ≥ 1 m is present in the pit. Samples 2Xsilica flour at approximately 3.7 m.
ATP45/06	327516	5447007	Surface	AAH22/04 and ATP8/04 at same site. About 0.3 m of mainly humus and 1.5 m of silica flour were removed during road building.
			0-2.9	Very pale brown, silica flour with substantial fines and moderate lump silica.
			2.9-3.9	Mainly pale, massive, granular, friable, lump silica that excavates as very pale brown, silica flour with substantial fines and about 40% of relatively hard lump silica. Minor plant roots to bottom of pit. Samples 2Xsilica flour from 3.6 m..
ATP46/06	327472	5447044	Surface	AAH23/04 and ATP10/04 at same site. About 0.3 m of mainly humus and about 0.7 m of silica flour removed during road building.
			0-4	Very pale brown, silica flour with substantial fines. Less than 5% hard lump silica in excavated pile. Samples 2Xsilica flour from 3.7 m.
ATP47/06	327428	5447077	Surface	AAH24/04 at same site. About

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
				0.3 m of humus and grey soil removed by road building.
			0-4.1	Pale brown, sandy, silica flour with abundant hard, lump silica comprising grey and white, banded 'lacy agate' that forms irregular networks with numerous cavities up to 80 mm across. The excavated material consists of pale brown, silica flour with minimal fines and about 60% lump of 'lacy agate'. Samples 2Xsilica flour at 3.8 m.
ATP48/06	327493	5446915	Surface	AAH12/04 at same site. About 0.3 m of mostly humus removed by track making.
			0-4	Very pale brown, gritty, silica flour. About 5% hard lump silica in excavated pile. Patch of bright orange, silica flour near bottom of pit with dimensions 1.5 m X \geq 0.5 m X \geq 0.5 m. Colour due to coating on quartz grains. Plant roots throughout pit. Samples 2Xsilica flour at 3.7 m.
ATP49/06	327498	5446850	Surface	AAH29/04 and ATP5/04 at same site. About 0.3 m of humus and soil removed during track construction.
			0-4	Similar to ATP40/04. Lump silica is pale, massive, granular quartz rock with sparse, thin (2-3 mm) seams in which pale brown clay coats quartz grains. Samples 2Xsilica flour from 3.7 m.
ATP50/06	327495	5446797	Surface	AAH19/04 and ATP3/04 at same site. About 0.3 m of humus and soil removed by track construction.
			0-4	Very pale brown, silica flour with substantial fines. Less than

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
				5% hard, granular lump in excavated pile. Plant roots throughout pit. Samples 2Xsilica flour from 3.7 m.
ATP51/06	327466	5446792	Surface	AAH74/06 at same site and AAH18/04 close by. About 0.5 m of humus and grey soil removed by track building.
			0-3.8	Very pale brown, silica flour with substantial fines. Less than 1% hard, granular, lump silica in excavated pile. Samples 2Xsilica flour from about 3.5 m.
ATP52/06	327433	5446758	Surface	No auger hole at this site. About 0.5 m of humus and grey soil removed during track making.
			0-3	Very pale brown, silica flour.
			3-4	Transitional to pale, massive, granular, lump silica.
			Overall	Plant roots throughout pit. Excavates as very pale silica flour with substantial fines and less than 5% hard lump silica. Samples 2Xsilica flour at 3.7 m.
ATP53/06	327430	5446612	Surface	AAH66/06 at same site. About 0.5 m of humus and grey soil removed during track preparation.
			0-3.9	Substantial very pale brown, silica flour in pit as well as substantial very pale brown, massive, granular, short jointed, lump silica. Excavates as very pale brown, gritty, silica flour with substantial fines and about 35% lump silica. Lump material contains sparse, thin seams in which pale brown clay coats the quartz grains. Samples 2Xsilica flour at 3.6 m.
ATP54/06	327456	5446576	Surface	AAH67/06 at same site. About 0.5 m of humus and grey soil removed during track making.

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
			0-4	Pit contains substantial silica flour and substantial lump silica. Excavates as very pale brown, silica flour with substantial fines and about 40% of pale, massive, granular, lump silica. Samples 2Xsilica flour at 3.7 m.
ATP55/06	327538	5446610	Surface	AAH71/06 at same site. About 0.5 m of humus and grey soil removed during track construction.
			0-3.9	Very rocky character with short jointing very prominent. Excavates as very pale brown, gritty, silica flour with good fines and about 60% of hard, cream, massive, granular, lump silica. The lump silica contains sparse, thin seams (3 mm) of grey, granular quartz. Samples 2Xsilica flour from 3.6 m.
ATP56/06	327543	5446566	Surface	AAH72/06 at same site. About 0.5 m of humus and grey soil removed during track construction.
			0-4	Very pale brown, silica flour with substantial fines. About 5% hard, pale, massive, granular, lump silica in excavated pile. Minor plant roots throughout pit. Samples 2Xsilica flour at 3.7 m.
ATP57/06	327526	5446513	Surface	AAH73/06 at same site. About 0.3 m of humus and grey soil removed during site preparation.
			0-4	Very uniform, very pale brown, silica flour with substantial fines. About 2% hard, massive, granular, lump silica in excavated pile. Samples 2Xsilica flour from 3.7 m.
ATP58/06	327472	5446432	Surface	AAH70/06 at the same site.
			0-1	Predominantly very pale brown,

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
				silica flour.
			1-3.7	Mostly lump silica. Excavates as very pale brown, gritty, silica flour with substantial fines and about 35% hard, pale, massive, granular, friable, lump silica. Samples 2Xsilica flour and 2Xlump silica from 3.4 m.
ATP59/06	327478	5446482	Surface	AAH69/06 is 10 m south of pit.
			0-0.25	Humus and grey soil.
			0.25-0.75	Mainly very pale brown, silica flour.
			0.75-3.7	Hard digging in mainly lump silica. Excavates as very pale brown, gritty, silica flour with about 45% hard, pale, massive, granular, lump silica. Samples 2Xsilica flour from 3.4 m.
ATP60/06	327380	5446564	Surface	AAH78/06 at same site. About 0.3 m of humus and grey soil removed during site preparation.
			0-2.4	Coarse, well-sorted, off-white, alluvial sand with very well rounded granules and sparse pebbles of milky quartz. Bottom of alluvial sand indistinct.
			2.4-4	Very pale brown, silica flour with substantial fines and hard lump of vughy 'lacy agate'. Coarse quartz crystals lining the vughs may be coated by pale brown clay. Excavates as silica flour with about 10% hard lump silica. Samples 2Xsilica flour from 3.7 m.
ATP61/06	327372	5446485	Surface	About 0.3 m of humus and grey, sandy soil removed during site preparation.
			0-2.4	Very hard digging in gritty, alluvial sand with sparse, very well rounded, milky quartz pebbles. Dark brown, organic

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
				discolouration at bottom of hole.
ATP62/06	327388	5446427	Surface	About 0.3 m of humus and soil removed during site preparation.
			0-2.2	Very hard digging in gritty, off-white, alluvial sand with sparse, very well rounded, milky quartz pebbles. Dark brown, organic discolouration and clay at the bottom of the pit.
ATP63/06	327410	5446369	Surface	About 0.5 m of humus and grey soil removed during track construction.
			0-0.25	New humus
			0.25-1.6	Very pale brown, sandy, silica flour. No lump silica. Samples 2Xsilica flour at 1.5 m.
			1.6-2.6	Dark brown organic and orange-brown ferruginous discolouration of silica flour.
ATP64/06	327422	5446307	Surface	AAH80/06 at same site. About 0.25 m of humus and soil removed by track making.
			0-0.25	Humus and soil
			0.25-2.3	Very pale brown, silica flour with substantial fines and negligible lump silica.
			2.3-3.6	Dark brown and orange –brown discolouration of silica flour.
ATP65/06	327485	5446528	Surface	AAH68/06 at the same site. About 0.3 m of humus and grey soil removed by track making.
			0-2.5	Very pale brown, silica flour with substantial fines and minor lump silica.
			2.5-3.8	Mostly very pale brown, massive, granular, lump silica. Excavates as very pale brown, silica flour with substantial fines and about 25% of hard, lump silica. Samples 2Xsilica flour from 3.5 m.
ATP66/06	327435	5446530	Surface	AAH75/06 at same site. About

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
				0.5 m of humus and grey soil removed in track making.
			0-4.1	Uniform, very pale brown, gritty, silica flour with substantial fines. About 10% of hard, pale, massive, granular, lump silica in excavated pile. Samples 2Xsilica flour at 3.8 m.
ATP67/06	327419	5446569	Surface	AAH76/06 at same site. About 0.3 m of humus and grey soil removed by track making, along with about 0.5 m of pale sand.
			0-3.4	Coarse grained, well sorted, pale, alluvial, quartz sand with very well rounded, quartz granules. Bottom contact of alluvial sand not clear. Samples 2Xalluvial sand at 2.5 m.
			3.4-4.2	Very pale brown, silica flour with substantial fines, negligible lump silica. Samples 2Xsilica flour from 3.9 m.
ATP68/06	327399	5446607	Surface	AAH77/06 at same site. About 0.5 m of humus and grey soil removed during track making as well as about 0.5 m of very pale brown, silica flour. A little 'lacy agate' present in adjacent track cutting.
			0-?3.9	Very pale brown, sandy, silica flour. Less than 5% of hard, lump silica in excavated pile. Samples 2Xsilica flour from about 3.6 m.
ATP69/06	327546	5446943	Surface	This site is a road cutting.
			0-2.3	Thin humus and grey soil over very pale brown, silica flour with substantial fines and negligible hard, lump silica. Samples 2Xsilica flour from about 2 m. Plant roots throughout, but minor.
ATP76/06	327547	5446886	Surface	This site is a road cutting.

Test Pit Number	AMG Easting (m)	AMG Northing (m)	Depth Interval (m)	Comment
			0-3	Thin humus and grey soil over silica flour in which the amount of lump silica increases downwards. The lump silica is an off-white, massive, granular, friable, quartz rock that is porous and displays short, planar jointing. Samples 2Xlump silica at about 2.5 m.

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Appendix 3: Blackwater West – 10 kg samples, 2006. AMG coordinates were determined with a hand held GPS (Magellan 315).

Blackwater West Prospect, 10 kg samples

Test Pit	Easting (m) AMG	Northing (m) AMG	Comment
ATP35/06	327469	5446855	Silica flour, 3.2-3.5 m depth.
ATP36/06	327526	5446794	Silica flour, 3.5-3.8 m depth.
ATP57/06	327526	5446513	Silica flour, 3-3.4 m depth.
ATP65/06	327485	5446528	Silica flour, 2-2.3 m depth.
ATP66/06	327435	5446530	Silica flour, 3.9-4.1 m depth.
ATP69/06	327546	5446943	Silica flour, about 2 m depth in road cutting. Site of Matt Smith's 6 samples.
ATP76/06	327547	5446886	Lump silica, about 2.5 m depth in road cutting.
ATP24/06	327546	5447022	Lump silica, about 2 m depth.

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Appendix 4: Grain size analyses and geochemical analyses of BWTP1 and BWTP2, which are 10 kg sub-samples of 60 tonne bulk samples. The sample locations approximately coincide with ATP1/04 and ATP9/04 respectively. Data supplied by Sumitomo Australia Ltd.

PSD-particle size distribution; HW-heavy water; mag.-magnetic separation.

Sample(Pit) No.	BWTP 1																	BWTP 9																
moisture	7.4%																	8.5%																
250-75 μ /'05May	35.1%/21.6%																	39.4%/24.9%																
75-20	56.5%/68.4%																	51.1%/65.7%																
-20(calculated)	8.4%/10.0%																	9.5%/9.4%																
PSD	250	212	150	106	75	45	-45																		250	212	150	106	75	45	-45			
(Dry)	%																								%									
-5mm	24.0	1.7	4.9	5.8	7.6	15.0	41.0																		12.9	1.5	5.4	7.8	13.2	21.6	37.6			
Chemical Data	LOI	SiO2	Al2O3	Fe2O3	HCL	TiO2	HCL	CaO	MgO	Na2O	K2O	Cr	HCL	Mn	Ni	HCL	Cu	LOI	SiO2	Al2O3	Fe2O3	HCL	TiO2	HCL	CaO	MgO	Na2O	K2O	Cr	HCL	Mn	Ni	HCL	Cu
	%																	%																
	ppm																	ppm																
-250 μ	0.34	99.5	130	46	35	140	100	540	240	39	16	0.40	0.40	0.18	0.11	0.01	0.1	0.20	99.5	130	95	48	690	450	930	480	18	11	1.9	1.6	0.44	0.19	0.04	0.24
250-75			120	43		66			54		15			0.22	0.03		0.12			100	59		290			23		0.65		0.26	0.08		0.15	
after HW			110	38	34	63	67			52		0.10	0.12	0.18	0.01	0.01	0.12			100	55	34	280	350		18		0.50	0.56	0.23	0.08	0.05	0.14	
after mag.			110	38		63			50		0.12			0.17	0.03		0.14			100	54		280			18		0.54		0.23	0.12		0.14	
75-20			120	44		94			31		0.35			0.17	0.08		0.2			110	76		360			14		1.1		0.3	0.09		0.23	
after HW			120	36	30	93	88			26		0.32	0.23	0.14	0.08	0.08	0.14			110	60	32	350	400		10		0.80	0.82	0.27	0.03	0.08	0.14	
after mag.			120	38		95			27		0.30			0.14	0.07		0.14			110	61		350			10		0.82		0.23	0.03		0.15	
-20(calculated)			239.2	72		759			30		1.8			0.08	0.65		-			362.4	347		4130			19		11		1.9	1.2		0.668	
cf.'05May ATP				17		62						0.58			0.01						38		230					0.65			0.04			

no assay