

TASMANIAN ADVANCED MINERALS PTY LTD
P.O.Box 378, Wynyard
Tasmania 7325

EL35/2003 Stephens Rivulet – Hawkes Creek

Test Pitting at Hawkes Creek
December 2008

Volume 1 of 1

Prepared by N. J. Turner Geological Services Pty Ltd
65 Lochner St, West Hobart, Tasmania 7000, 3rd February 2009

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1 Summary

- Potentially commercial silica flour was encountered in 12 test pits on a hill just south east of the known silica flour deposit at Hawkes Creek.
- A speculative estimate of 138,000 tonnes for the amount of resource in the hill is encouraging of further systematic exploration by test pitting and drilling.
- Silica flour was identified in the south eastern corner of EL35/03 and further exploration in this area is warranted.

2 Introduction

Drilling at the Hawkes Creek prospect in 2004 and in July-August 2008 delineated a silica flour deposit some 600 m long, 8-50 m wide and 0.5-12 m thick with a modelled mass of 156,700 tonnes \pm 10%. The deposit is elongated parallel to the strike of the country rocks and was probably formed by silicification of a favourable dolomite unit. Consequently, potential was seen to exist for deposits of silica flour to occur along strike to the southeast and northwest of the known deposit. The potential of an area to the southeast of the known deposit was tested in December 2008.

3 Work carried out

Exploration work was carried out over a small hill that extends from 40 m southeast of the previous drill pattern to 200 m south east of the drill pattern (Figure 1). Steve Barker of Smithton cut several access tracks across the hill using a 15 tonne excavator. In some cases old logging tracks were reopened.

Test pits were excavated at intervals along the newly cut tracks and along the existing Main Track that runs down the western side of the hill and through to the southeast corner of the tenement. Each pit was logged and most pits were sampled. The tracks and pit locations were mapped with a hand held, Magellan 315 GPS. Relative levels were determined with a small aneroid barometer (Figure 2).

A reconnaissance traverse was made along the Main Track as far as the southeast corner of the tenement. The track is poorly developed and very overgrown south east of 322710mE 5447375mN.

4 Results

Logs of the test pits dug on the small hill are presented in Appendix 1. Common clayey materials in track cuttings and in test pits indicate that the lower northern track and the Main Track are mostly below the base of potentially commercial silica flour. However, at higher levels on the hill silica flour of very pale colour and satisfactory grainsize was encountered to the bottom of all test pits, which ranged 3-4.5 m in total depth.

Chemical and grainsize analyses of the test pit samples are presented in Appendix 2. Tasmanian Advanced Minerals Pty Ltd is currently evaluating the commercial implications of these results.

Silica flour of good colour and grainsize was found in a shallow track cutting at 322875mE 5447125mN (AGD66) in the south eastern corner of EL35/03.

5 Conclusions

A very approximate boundary for the new silica flour deposit on the small hill is shown in Figures 1 and 2. It encompasses an area of 17250 m². Assuming that the average thickness of silica flour throughout this area is 4 m and that the density of silica flour is 2 tonnes/m³, it follows that the mass of silica flour in the deposit is 138,000 tonnes. This figure is quite speculative, but it provides clear justification for further exploration work aimed at establishing the true thickness of the deposit and better delineating its boundary. These aims may be achieved by drilling at intervals along the existing tracks and by carrying out further excavator work around the boundaries, particularly in the west and south. It may be that the average thickness of the deposit is substantially greater than 4 m.

6 Environmental matters

The test pits were backfilled after logging and sampling. All tracks remain open pending further work.

7 References

Turner N. J. 2008. EL35/03 Stephens Rivulet-Hawkes Creek. Drilling at Hawkes Creek, 2008. Tasmanian Advanced Minerals Pty Ltd.

HAWKES CREEK PROSPECT
SHOWING RELATIVE POSITION OF
DECEMBER 2008 TEST PITS

Compiled : Nic Turner	Drawn : Gillian Bennett	Date : 22/09/08	Scale : 1:3000
Survey : Differential GPS by Survey Resources Launceston		File : HC TP-ALL 12-08.dwg	Figure No : 1

N. J. Turner Geological Services Pty Ltd

5 448 600mN

5 448 600mN

5 448 400mN

5 448 400mN

5 448 200mN

5 448 200mN

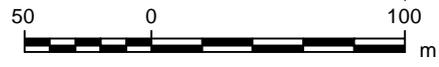
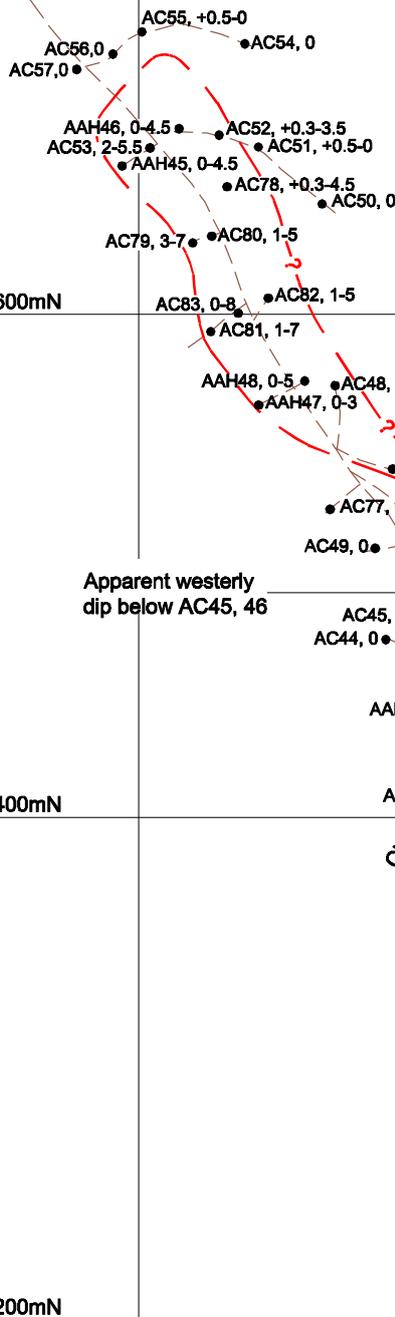
322 200mE

322 400mE

322 600mE

322 400mE

DATUM = GDA94 z55



LEGEND

● AC48, +0.5-6.5 Drill hole with number and depth range (metres) of potentially commercial silica flour. Hole numbers are abbreviated in the style: AC48 from AC08048, AAH48 from AAH48/04 (see 2005 Annual Report for AAH holes). Numbers preceded by + give the thickness of silica flour in drill site cuttings, above the RL of the drill collar. Other numbers are depths below the drill collar.

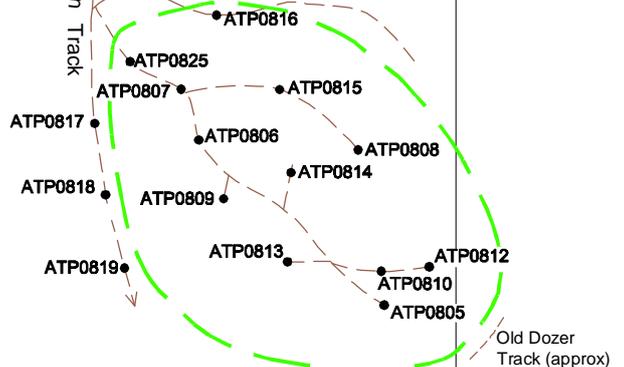
● ATP0825 December 2008 test pit with number.

--- Approximate geological boundary of main silica flour development.

NOTE:

The potentially commercial silica flour is mainly very pale brown or grey, sometimes white. It may contain minor clay. Commercial material is present, but the proportion of waste is unknown.

Speculative limit of potentially commercial silica flour

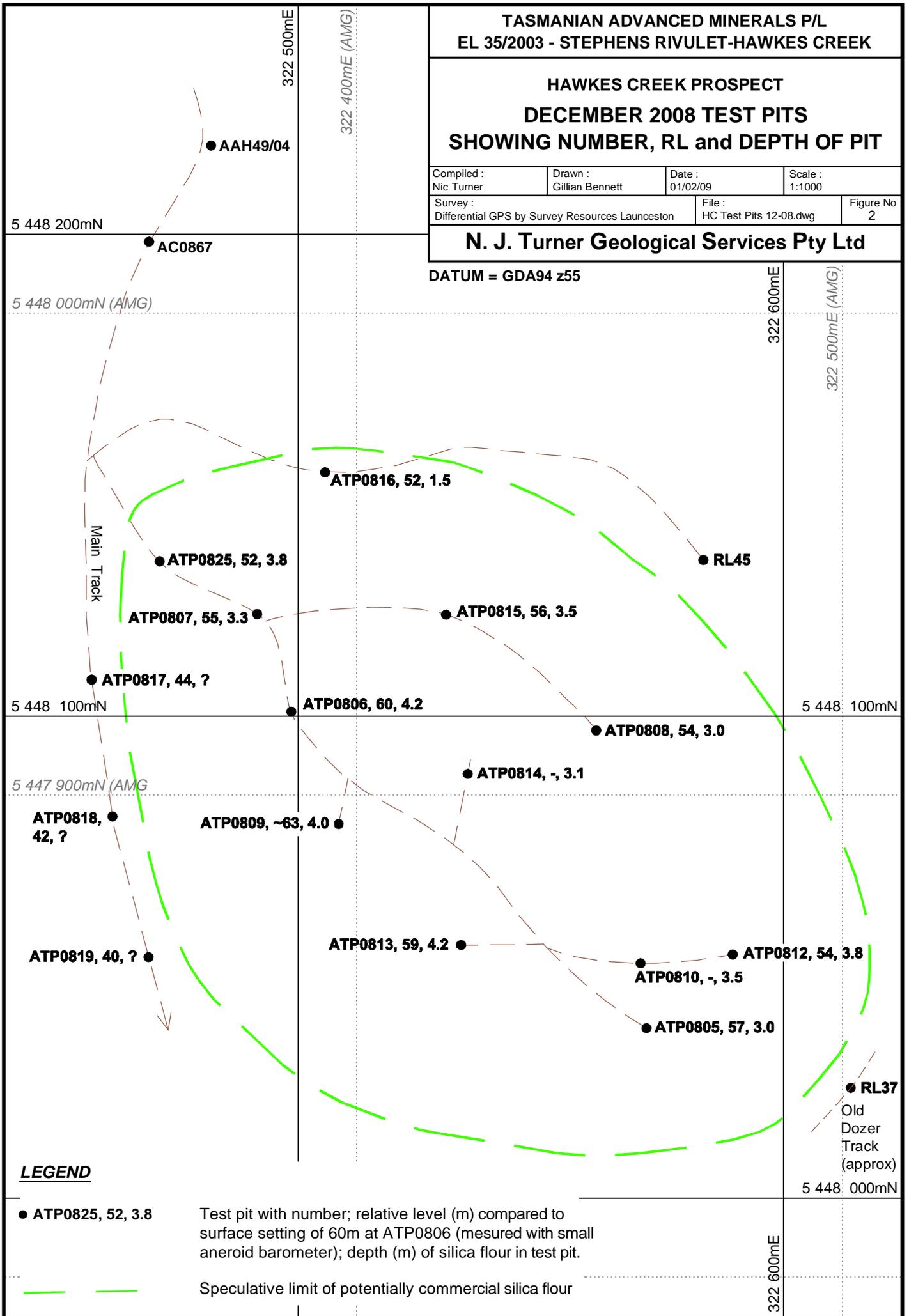


HAWKES CREEK PROSPECT
DECEMBER 2008 TEST PITS
SHOWING NUMBER, RL and DEPTH OF PIT

Compiled : Nic Turner	Drawn : Gillian Bennett	Date : 01/02/09	Scale : 1:1000
Survey : Differential GPS by Survey Resources Launceston		File : HC Test Pits 12-08.dwg	Figure No 2

N. J. Turner Geological Services Pty Ltd

DATUM = GDA94 z55



TASMANIAN ADVANCED MINERALS

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EL35/03 Stephens Rivulet-Hawkes Creek.
Test pitting at Hawkes Creek, December 2008

Appendix 1: Test pit logs

Excavator contractor: Steve Barker, Smithton

Excavator: 15 tonne Kobelco

The AGD66 coordinates of the test pits were determined with a hand held Magellan 315 GPS. GDA94 coordinates can be derived by adding 112 m to the AGD66 easting and 184 m to the AGD66 northing.

Relative levels were determined with a small aneroid barometer. The barometer was set to 60 m at ground surface at test pit ATP0806.

Test Pit Number	AGD66 E (m)	AGD66 N (m)	RL (m)	Depth of Pit (m)	Comments
ATP0805	322459	5447936	57	3	Very pale brown, gritty silica flour with about 50% very pale brown, massive, friable lump silica.
ATP0806	322386	5447917	60	4.4	0.2 m humus, 4.2 m very pale brown silica flour with minor grit and about 20% lump silica.
ATP0807	322380	5447938	55	3.6	0.3 m humus, 3.3 m very pale brown, gritty silica flour with common friable lump.
ATP0808	322449	5447913	54	3.3	0.3 m humus, 3 m very pale brown, gritty silica flour. About 10% of mostly friable lump silica. Flour is tough i.e. It is hard to dig.
ATP0809	322396	5447894	~63	4.3	0.3 m humus, 4 m very pale brown, gritty silica flour with about 10% lump. Tough to dig.
ATP0810	322458	5447866	?	3.7	0.2 m humus, 3.5 m very pale brown, gritty silica flour. Common plant rootlets. About 20 % lump.
ATP811	322875	5447125	?	0.8	Shallow track cutting in Main Track SE of the small hill: 0.2 m humus, 0.6 m very pale brown silica flour. No grit or lump.
ATP812	322477	5447867	54	4	0.2 m humus, 3.8 m very pale brown silica flour with very little grit or hard lump.
ATP813	322416	5447871	59	4.5	0.3 m humus, 4.2 m very pale brown silica flour with very little grit or lump. Common coarse grained sand in patches.
ATP814	322422	5447904	?	3.4	0.3 m humus, 3.1 m very pale brown, gritty silica flour with about 30% friable and

					minor hard, lump silica.
ATP815	322419	5447937	56	3.8	0.3 m humus, 3.5 m very pale brown, gritty silica flour
Test Pit Number	AGD66 E (m)	AGD66 N (m)	RL (m)	Depth of Pit (m)	Comments
					with about 15% lump. Large blocks of pale brown to white, massive, mostly fractured and friable, lump silica are present.
ATP0816	~322393	~5447966	52	1.8	0.3 m talus, 1.5 m very pale brown, gritty silica flour with abundant massive, friable lump silica. The silica flour is 'tight' and the digging hard.
ATP0817	322341	5447924	44		On Main Track. Dug back into cutting, then down. Very pale, very fine grained, clayey material passing rapidly into buff and dark brown clay.
ATP0818	322347	5447895	42	5.1	On Main Track. Dug back into cutting, then down. 0.6 m humus, 4.5 m very pale brown, gritty silica flour with vertical contact (strike 125 ⁰) against brown clay.
ATP0819	322357	5447866	40	2.1	On Main Track. 0.4 m humus, 1.5 m pale brown, sandy silica flour over 'blob' of brown clay with very irregular boundaries.
ATP0820	322651	5447589		~1.4	On Main Track SE of small hill. ~0.3 m humus. 1.5 m pale brown, sandy material (? Tertiary pebbly sand) and brown clay.
ATP0821	322670	5447483		~1.7	On Main Track SE of small hill. ~0.3 m humus, 1.4 m very well rounded lithic granules and pebbles in silty and sandy matrix (? Tertiary).
ATP0822	322621	5447622		~1.1	On Main Track SE of small

					hill. ~0.3 m humus, 0.8 m similar ? Tertiary sediment.
ATP0823	322580	5447661		~1.5	On Main Track SE of small
Test Pit Number	AGD66 E (m)	AGD66 N (m)	RL (m)	Depth of Pit (m)	Comments
					hill. ~0.3 m humus, 1.2 m similar ? Tertiary sediment.
ATP0824	322557	5447713		~2.1	On Main Track SE of small hill. ~0.3 m humus, 1.8 m bed-rock of banded siliceous siltstone.
ATP0825	322360	5447948	52	4.1	0.3 m humus, 3.8 m very pale grey silica flour with minor grit, no lump.

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Appendix 2: Chemical and grain size analyses of 2008 test pit samples

Laboratory: Tasmanian Advanced Minerals Pty Ltd, Wynyard

Analyst: Takehisa (Toy) Miyachi

Method of chemical analysis: ICPMS

Name	assayed date	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	Cu	Cr	Mn	Ni	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	±0.01	
Hawkes creek ATP 0805	17-Dec-08	90	5	12	276	9	0.10	0.16	0.02	0.10	
Hawkes creek ATP 0806	16-Dec-08	122	4	21	462	19	0.12	<0.01	0.01	0.04	
Hawkes creek ATP 0807	17-Dec-08	108	9	37	338	11	0.26	0.43	0.05	0.04	
Hawkes creek ATP 0808	17-Dec-08	352	201	609	197	96	1.1	195	2.1	0.50	
Hawkes creek ATP 0809	17-Dec-08	128	6	47	358	22	0.16	0.69	0.03	0.08	
Hawkes creek ATP 0810	17-Dec-08	91	3	11	357	15	0.24	0.14	0.02	0.05	
Hawkes creek ATP 0811	17-Dec-08	166	30	66	205	47	0.44	0.79	0.07	0.01	
Hawkes creek ATP 0812	16-Dec-08	67	4	17	499	17	0.09	0.16	0.01	0.02	
Hawkes creek ATP 0813	15-Dec-08	136	31	38	226	17	0.20	1.9	0.07	0.06	
Hawkes creek ATP 0814	15-Dec-08	76	8	7	220	10	0.15	0.36	0.04	0.09	
Hawkes creek ATP 0815	16-Dec-08	82	4	18	309	10	0.05	0.12	0.07	0.06	
Hawkes creek ATP 0816	16-Dec-08	196	82	273	213	40	0.44	45	0.65	0.29	
Hawkes creek ATP 0818	16-Dec-08	688	210	1128	197	98	1.1	102	1.8	0.49	
Hawkes creek ATP 0819	17-Dec-08	472	93	547	831	141	0.60	10	0.99	0.15	
Hawkes creek ATP 0820	17-Dec-08	1223	71	973	598	122	1.3	8.4	0.58	0.19	
Hawkes creek ATP 0825	16-Dec-08	175	5	40	540	21	0.15	0.68	0.02	0.02	
Name	assayed date	+425	300	250	212	150	106	75	45	25	-25
		micron	micron	micron	micron	micron	micron	micron	micron	micron	micron
		%	%	%	%	%	%	%	%	%	%
Hawkes creek ATP 0805	17-Dec-08	19.4	3.6	1.8	1.8	3.8	5.5	7.3	19	31.3	6.5
Hawkes creek ATP 0806	16-Dec-08	19.1	7.1	3.4	3	5.5	5.5	6.7	15.6	25.2	8.9
Hawkes creek ATP 0807	17-Dec-08	40	4.9	2.6	2.2	4.1	5.1	6.5	10.4	22.4	1.8
Hawkes creek ATP 0808	17-Dec-08	12.9	3.8	2.2	2.4	8.3	9.5	10.9	18.1	27.4	4.4
Hawkes creek ATP 0809	17-Dec-08	14.2	5.1	2.6	2.2	4.7	5.9	8.7	19.9	28	8.7

Name	assayed date	425	300	250	212	150	106	75	45	25	-25
		micron									
		%	%	%	%	%	%	%	%	%	%
Hawkes creek ATP 0810	17-Dec-08	13.8	1.6	0.8	0.8	1.8	4.5	9.6	26.5	32.2	8.4
Hawkes creek ATP 0811	17-Dec-08	10.1	5.3	3.4	3.4	7.5	12.7	13.9	20.8	19	3.8
Hawkes creek ATP 0812	16-Dec-08	21.9	2.2	1.2	1.4	3.7	7.8	12.9	22.7	19.6	6.5
Hawkes creek ATP 0813	15-Dec-08	32	8.5	3.8	3.2	5.4	5.2	5.4	9.5	10.7	16.3
Hawkes creek ATP 0814	15-Dec-08	8.5	2.6	1.8	1.6	4	6.1	10.1	20	27.1	18
Name	assayed date	425	300	250	212	150	106	75	45	25	-25
Hawkes creek ATP 0815	16-Dec-08	12.6	4.3	2.4	2	5.7	9.3	13.2	20.5	20.3	9.7
Hawkes creek ATP 0816	16-Dec-08	19	3	1.6	1.4	4.3	5.3	6.5	13.4	22.9	22.7
Hawkes creek ATP 0818	16-Dec-08	25.1	5.8	4.8	3.4	12	26.9	9.6	7	5	0.2
Hawkes creek ATP 0819	17-Dec-08	13.1	4.4	3	3.2	10.5	11.9	12.9	18.2	17.8	4.8
Hawkes creek ATP 0820	17-Dec-08	42.9	3	1.4	1.2	3.6	29.1	13.8	4.2	0.8	tr
Hawkes creek ATP 0825	16-Dec-08	14.7	5.2	2.8	2.6	5.4	6.3	7.7	14.7	20.2	20.4