

MAYDENA SANDS PTY LTD

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RETENTION LICENCE NO. 2/2003

MAYDENA, TASMANIA

ANNUAL REPORT

TO

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ABSTRACT

Drilling in the south west segment of the Eastern Quarry Silica sand prospect outlined some 250,000 tonnes of potentially useable raw silica and material.

Rising demand for high quality silicon metal as a result of booming demand for solar cell panels overseas is, once again, focusing interest in the silica rock potential of the tenement.

As a result of marketing efforts, an increasing number of enquiries, mainly from overseas, are being dealt with.

Several requests for small bulk samples could not be accommodated at this stage due to the slow progress in sourcing suitable equipment at reasonable cost for the assembly of a low-throughput pilot plant.

Attempts to identify alternative, or new, methods for end product quality improvement continue.

Keywords:

Maydena; Pine Hill;
Silica flour; Silica Rock
Processing;
Marketing;

C O N T E N T S

ABSTRACT

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1. INTRODUCTION

At the end of April, 2005, Maydena Sands Pty. Ltd. replaced J.J. McDonald & Sons Mining Pty. Ltd. as owner/operator of this tenement without interruption to programme continuity.

This report outlines activities by Maydena Sands Pty. Ltd. in regard to the third year's activities relating to its Retention Licence 2/2003, granted for a three year period to 09.01.2007.

This tenement has its origins in EL 17/1998 previously held and operated by J.J. McDonald & Sons Mining Pty. Ltd. It is located just south of the sealed Gordon River road approximately 4 km west south west of Maydena and about 90 km by road from Hobart (Fig.1). There is good access to and within the prospect area. Power, water, housing and basic facilities are readily available from within a short radius of the prospect. The narrow gauge rail-line from New Norfolk to Maydena is being progressively upgraded for passenger traffic. A 700m long gravel airstrip is located 3 km north west of the silica sand deposit.

The primary target for investigation and assessment remains the deposit of silica sand and its silica flour matrix located largely to the west of the Eastern Quarry, about 1 km south east of Pine Hill (Fig.2).

The overall aim of the investigations is to determine if a commercially viable operation can be established, based on products derived from the silica sand resource in the tenement.

In view of the upsurge of interest in the use of solar power overseas, renewed attention was also directed at the high quality silica rock potential of the tenement. The latter raw material is used in the production of high purity silicon metal which is an essential component of solar cells.

The main objectives of this year's activities towards this aim were:

- Completion of a small drilling programme.

- Continuation of beneficiation/processing investigations.
- Capex/Opex cost reviews and updates.
- Continuing marketing efforts for silica flour and co- or by-products
- Continuation of site planning for quarry and processing plant.
- Processing equipment sourcing..

2. PREVIOUS WORK

Exploration by Pioneer Silicon Industries Pty. Ltd. in 1988/89 identified a lag deposit of hard silica rock at the Western Quarry containing a small resource of material deemed suitable for the manufacture of silicon. (Fig.2). From this, approximately 19,000 tonnes of crushed, screened silica rock was produced in 1991 and 1992 for shipment. 10,000 tonnes were consigned to Pioneer's silicon smelter at Electrona and about 9,500 tonnes went to Temco's Bell Bay ferrosilicon plant. Extraction, by Duggans Pty. Ltd. under M.L.1396 P/M, virtually ceased upon closure of the Electrona smelter in 1992, although a small parcel of 850 tonnes of silica rock is reported to have been mined in 1995. At the end of the earlier exploration work, an occurrence of white silica sand was located between Pine Hill and the Styx Road in an area now known as the Eastern Quarry Area. Pioneer investigated this deposit in the vicinity of the Eastern Quarry by 23 shallow RC drill holes. Preliminary estimates suggested a resource in the order of some 0.75 – 1.5 million cu. m. of mostly low iron silica sand containing about 10% of high grade lump silica. Pioneer ceased operations at Electrona before any of this material could be used for silicon production.

Assay results from a number of subsequent, excavator generated pit samples by the North West Bay Co. Pty. Ltd. supported the high quality of the resource and, together with sizing determinations on a bulk sample, indicated that the sand might be suitable for the manufacture of table ware glass.

During its tenure of EL 17/1998, which contained these deposits, J.J. McDonald & Sons Pty. Ltd., using the air core drill sampling method, completed 43 drill holes totalling 553 m which outlined a raw material resource of about 6 million tonnes of loose silica ranging in size from very coarse to very fine.

The drilling also demonstrated that the deposit is more variable, complex and higher in iron oxides and other impurities than previous data suggested.

Laboratory sizing determinations indicated that the deposit is a possible source of silica flour as well as glass sand, while geological mapping pointed to a small resource potential for hard silica bedrock as well.

Bench scale beneficiation tests and bulk sample processing tests, including acid wash tests on samples of the glass size fraction sand, showed that the -250 micron fraction could be upgraded to a high quality product containing only about 50ppm Fe₂O₃ without major environmental impact, with lower levels of iron a possibility.

Sources of good quality limestone and dolomite were identified in relative proximity to the silica sand deposit for eventual acid neutralization uses.

The company's activities in the marketplace identified the natural silica flour as potentially the deposit's most important component economically. This material provided the major focus for ongoing geological, processing and marketing activities, though the coarser size fractions and hard-rock potential remain of interest for future attention under the appropriate market conditions.

Details of past activities and outcomes are provided in reports listed in the Bibliography. (See Section 8 below).

In late 2004, J.J. McDonald & Sons Mining Pty. Ltd. formed a new holding and operating company, Maydena Sands Pty. Ltd., to which all of the former company's interests in the Maydena area were transferred in April 2005.

Since then, all activities are being conducted under the new Company name.

3. ACTIVITIES FOR PERIOD

The spectrum of significant activities engaged in this year included the following:

3.1 Work Done

- Completion of 15 shallow air-core/RC drill holes totalling 152m, mainly along the southern and western edge of the deposit.
- Limited silica rock float sampling.
- Analysis of drill chip samples, rock float samples and bulk sample material.
- Fill-in geological check mapping along the southern and western sand contacts previously obscured by timber harvest litter, as well as along the western fire track.
- Ongoing and intermittent conceptual planning for quarry site and processing site layout throughout the year.
- Review and update of capex and opex estimate.
- Ongoing discussions with Norske Skog re possible land purchase for processing plant site and use of their rail loading facilities at Boyer.
- Consultation with Forestry Tasmania re land access issues and burning-off schedules in the tenement.
- Market-related meetings with Itochu, Perth and Melbourne.
- Marketing-related meetings with:
 - OHC, Berlin
 - MWN Mineralwerke, Niemegek, Germany
 - Walker Ceramics, Melbourne
 - Tasmanian Glassblowers – Launceston Australia

- Provide project information, make-up and supply of small test parcels of sand, flour and rock to several interested parties for lab scale tests.
- Registration of product names.
- Various project-related technical discussions with Dorfner, Duggans, Island Resources, Lazenby Quarries.

3.2 Statistical Summary

Drill holes completed	:	15
Drilling Co:	Tasmanian Drilling Services Pty Ltd., New Norfolk.	
Rig Type:	Edson 3000, mounted on International Acco 4x4 Atlas Compressor 350 cfm x 150 ps.	
Total drilled:	152m. (average 10.1m; range 2-20m)	
No. of drill chip samples analysed	:	146
No. of rock float samples analysed	:	11
No. of bulk samples analysed	:	6
Total No. of determinations	:	1680

3.3 Expenditure

Period Jan – Nov 2006	:	\$62,063.80
Est. Dec 06	:	\$ 3,500.00
Est. Cumulative for year to 09.01.07	:	\$65,563.80

4. RESULTS

4.1 Photogrammetry

Due to internal review and restructure, Surveying & Geographic Information Services, the photogrammetric consultancy and contracting business arm of Hydro Tasmania, ceased operation at the end of June 2006. In the latter half of 2006, this business, including archival files, was acquired by Qasco Southern Surveys, ensuring continuity of services and access to stored material. With these arrangements bedded down, Qasco was commissioned to update all maps, plans and orthophotographs for the Maydena Sands project. This work is currently in progress.

4.2 Drilling

A small drilling programme, deferred in 2005, was completed in June 2006, despite Forestry Tasmania, yet again, postponing burning off and reseeded the southern, clear-felled half of the silica sand deposit for another year.

The drilling programme consisted of 15 holes totalling 152m. One drill hole could not be accessed due to soft ground as a result of rains. Damper ground also made sample recovery more difficult by the air-core method, requiring change to RC drilling. This latter method altered the particle size characteristics in the sample with the result that it could not be used for reliable natural particle size distribution determinations over the sample width and, consequently, estimates of yields of natural silica flour over the intervals drilled. Similarly, estimates of the proportion of coarse size particles per sample interval recorded in the drill logs are very approximate only, probably overstating the true position.

1966/AGD drill hole co-ordinates and elevations are listed in Appendix 1 and drill hole positions are shown in Fig.3.

The drilling was mainly aimed at better sand depth and contact definitions between bedrock and the overlying sand in the south central (drill holes 111, 112, 113), south western (holes 115, 116, 120, 121, 122) and western (holes 117, 118, 119) sectors of the deposit.

Holes 114 and 123 were drilled to confirm sand quality in the south central and central parts of the deposit respectively.

The results, supported by several short ground traverses, led to some amendments to the previously interpreted positions of the contact in the south western and western sectors.

Holes 111, 112 and 113 encountered elevated levels of chromium averaging between 3.3 – 4.6 ppm Cr_2O_3 , and titanium averaging between 320 – 710 ppm TiO_2 . These are offset by generally lower values of Fe_2O_3 and Na_2O . (Appendix 3).

More encouragingly, a narrow zone of low iron, chromite and alkali metals about 80m wide and averaging about 8m in depth extends from hole 122, through holes 115, 116, 118 to 119. This represents a drill-indicated resource of some 250,000 tonnes of promising raw material and is a bonus outcome of the drilling programme. However, high levels of titanium averaging about 580ppm TiO_2 are of some concern.

The analyses for holes 114 and 123 are, more or less, in line with those of adjacent holes. These results add further weight to the concept that the zone to be targeted for early extraction lies north of the upper haulage road and extends from about hole 101 to hole 72.

4.3 Rock Sampling

As a result of a sudden surge in demand for solar cells overseas over the past year, there is renewed interest in high quality silica rock for the production of high purity silicon metal. The latter is an essential component in the current generation of photovoltaic cells.

It is possible that the silica bedrock underlying the silica sand deposit in the Eastern Quarry area at Pine Hill may be suitable for this purpose. Lumps and blocks of this material comprise about 10-15% of the matrix of this sand deposit. Leached surface float is widespread at the prospect and readily available for sampling.

To date, eleven composite samples of about 1 kg each were collected from the surface, of which nine were taken in the western part of the prospect, one around hole 69 and one from material in the Eastern Quarry. (Fig.4).

Results are encouraging. (Appendix 4).

Of particular interest are the low levels of iron, chromium, potassium, sodium and phosphate.

The averages of these assays compare favourably with the feed for the Simcoa smelter sourced from the Moora deposit, 150 km north of Perth, as shown in the table below.

The Maydena material also compares favourably with the iron and alumina levels of the ELKEM specifications for raw material for its silicon smelters in Norway. The latter company is one of the world's largest producers of high quality silicon metal.

	<u>Fe₂O₃</u> %	<u>Al₂O₃</u> %	<u>TiO₂</u> %	<u>CaO</u> %	<u>MgO</u> %	<u>P₂O₅</u> %
Moora	0.065	0.182	0.014	0.038	0.032	0.010
Maydena	0.010	0.048	0.026	0.029	0.010	0.005
ELKEM	0.015	0.100	0.002	0.010	?	?

4.4 Bulk Sampling

Last year, a bulk sample of approximately 6 tonnes was collected from a pit next to drill hole 101 and stored in bulk bags of about 1 tonne each.

Early this year a sample was collected from each of the six bags and analysed.

Results for iron, chromium, titanium and alkali metals are very encouraging. Calcium and magnesium levels are about as expected, although loss on ignition averages above previous results. Details feature in Appendix 5.

4.5 Beneficiation

Discussions were held in the latter half of the year with Dorfner, Germany, with regard to the possible applicability of their electrodynamic method of fragmentation of crushed rock. The method, developed by the research arm of the group, exposes rock fragments and minerals to high voltage discharges in a water bath. This leads to disintegration along, rather than across, mineral grain boundaries, leading to a very clean end product. It is claimed that the method has found application in the concrete recycling industry, where crushed concrete is broken up into its component parts for reuse.

The method is energy intensive, with higher levels of energy required to treat fine sand.

A small piece of silica rock has been supplied for an exploratory test prior to submission by Dorfner of a costed proposal for a fully fledged test.

4.6 Marketing

Marketing activities continued throughout the year, again with a number of positive outcomes.

4.6.1 Osthandel Chemie GmbH (OHC) – Germany

Progress discussions on marketing the Pine Hill material in Europe and North America were held at the Company's head office in Berlin.

The potential of the silica rock for silicon manufacture was outlined to OHC which was requested to bring this material to the notice of ELKEM and FESIL of Norway. Both these companies are producers of high quality silicon metal.

Sampling data was forwarded to ELKEM for evaluation and a response is awaited.

Appropriate contacts are being sought within the FESIL organisation.

4.6.2 Schlingmeier Quarzsand GmbH - Germany

On the basis of successful completion of preliminary tests on two silica flour samples from the Eastern Quarry, MWN Mineralwerke, a Schlingmeier Group subsidiary, expressed interest in receiving a 100-200kg sample of Pine Hill silica flour product. This would be forwarded to some of its clients to gauge its suitability for specialist glass manufacture.

4.6.3 Itochu – Japan and Australia

On-going contact throughout the year was maintained with this company through periodic information and update meetings.

Apart from silica flour, this company is also showing initial interest, via its Perth and Tokyo offices, in the silica rock material from the Eastern Quarry area on the basis of data sheets submitted for evaluation.

4.6.4 Iwatani – Japan

Contact with this Osaka-based company continued. The company is starting to show concern about the potential inroads into the marketplace by lower priced, though somewhat inferior quality, silica flour material.

4.6.5 Wuxi Ding Long Company - China

This Chinese company is a manufacturer of high quality glass and high quality silicon.

3 samples of about 1kg each of raw material, hard silica rock and final silica flour product were submitted recently for assessment.

Feedback on test results is awaited.

4.6.6 30th ASEAN Glass Conference - Philippines

A September 2006 promotion at this conference of Maydena Sands and its potential to produce high purity silica flour, sands and rock, resulted in an enquiry from South Korea.

4.6.7 Glatec Ltd. – South Korea

Company information and product quality data was forwarded to this company upon request for evaluation. The company markets silica sand for TFT and normal flint glass production. Feedback is awaited.

4.6.8 INDEX - Tasmania

An approach was received from this local producer to source material from Maydena Sands for processing at the INDEX plant at Heybridge.

The matter is under consideration.

4.6.9 Walker Ceramics - Australia

A demonstration sample of partially processed, but good quality, fine silica sand was delivered to Walker Ceramics for an opinion as to the material's suitability for ceramic glazes.

Apart from the easily rectifiable relative coarseness of the sample, the material was deemed suitable for use by that company.

This encouraging preliminary assessment presents another market opportunity, but it must be seen against a gradual decline of the Australian ceramic industry recorded over the last few years in the face of competition from Chinese products.

4.6.10 Tasmanian Glassblowers Australia - Tasmania

A sample of the Maydena silica flour was discussed with the company's principal and found to be of interest. A 100kg sample was requested for melting tests.

4.6.11 Product Name Registration

The following five product names were registered to reinforce the Maydena Sands brand name in the market place.

- MAYROCK
- MAYFLOUR
- MAYPOWDER
- MAYSIL
- MAYGLASS

4.7 Mine Planning

The results of this year's drilling strengthens the case for sand extraction to commence on a strip of better quality raw material situated north of the upper haulage road and extending from west of hole 101 easterly to about hole 72.

Identification of this area as the preferred site for a sand quarry development opens the way for conceptual design of quarry support facilities layout.

Capital costs estimates, commenced late in 2005, were completed earlier this year. These were for a nominal 30 TPH silica processing plant based on a conceptual design to produce about 20,000 t.p.a. of marketable silica flour on a

1 shift/day, 5 days/week basis. This also provides total production capability of about 50,000 t.p.a. of saleable product on a round-the-clock, 5 days/week process plant utilisation basis. The plan for an initial operation envisages the extraction of some 50,000 t.p.a. of raw material and trucking partially screened feed from the quarry to processing site. It also provides for an acid washing step for product upgrade, though the latter may be avoided by aggressive attritioning using water.

The estimates show:

Capital expenditure on plant	:	\$2.8 million approx.
Operating cost	:	\$135/tonne approx.

Both these numbers represent significant increases on previous estimates. A periodic review of these costs would be expedient in the light of the rapidly rising cost regimes in the mining industry in current times. This would provide updated indication of notional project viability and help guide further effective exploration.

There has been slow progress on sourcing and costing of suitable equipment for a pilot plant for bulk sample testing and to provide larger quantities of material for tests by customers. This shortage of gear at reasonable cost is a result of the current mining boom.

In an attempt to offset these delays, industry enquiries were made and several quarries contacted, without success, to determine suitability and the likelihood of their processing plant being available to process small parcels of the silica sand.

Efforts to assemble a suitable small pilot plant continue.

Land purchase discussions with Norske Skog have reached the point where Council approval has been obtained, subject to certain conditions, for the subdivision and excision of the required block on which to site the processing plant. Some site access and residual covenant issues are currently under discussion with Forestry Tasmania.

Other options for flat land availability as possible repositories for coarse material and fines were investigated, especially along the southern and south eastern contact zone between the silica sand and underlying bedrock. Several areas were identified as showing potential, although somewhat limited.

4.8 Rehabilitation

On completion of the small drilling programme in June, all drill holes were plugged, capped and covered, drill sites cleaned up and all marker tape removed.

4.9 Community Relations

Informal information and progress update discussions with members of the Maydena Development Association were held during the year. Samples of silica bedrock and silica flour end product were provided for display purposes at the Maydena Community Centre.

5. CONCLUSIONS AND RECOMMENDATIONS

- 5.1** This year's drilling in the south west of the deposit added about 250,000 tonnes of raw material to the drill indicated resource bank at the prospect. This could amount to about 3-4 years' production at a proposed rate of 20-25,000 t.p.a. of silica flour.
- 5.2** Elsewhere, hole 123 supports the quality and depth of material previously established around previously drilled holes 101 and 102. These results identify a preferred area for sand quarry development.

- 5.3** Limited recce sampling of silica rock float along tracks and drill holes in the west of the prospect and at the Eastern Quarry yielded encouraging assay results. If marketplace response to these results is favourable, then surface silica rock sampling should be extended to cover the entire prospect to identify areas to drill test for silica bedrock quality at depth.
- 5.4** Also, subject to market encouragement, surface silica rock sampling should be extended to the 800m prospective zone between the Western Quarry and the western edge of the Eastern Quarry silica sand deposit.
- 5.5** Search for new beneficiation methods to improve product quality highlighted Dorfner's electrodynamic fragmentation method as an alternative product upgrade route for further follow-up.
- 5.6** The slow progress towards pilot plant assembly and construction is disappointing. This delays supply of larger product samples to potential clients for testing.
- 5.7** Escalating industry costs over the last year require that project capex/opex estimates be subject to periodic review and update.
- 5.8** Marketing activities in Europe and SE Asia this year were successful in generating several strong enquiries about both the silica flour product and hard rock silica. These activities should continue worldwide.
- 5.9** In view of recent hurdles encountered, alternative options for suitable flat land for a plant site should be explored.

6. PROPOSED FUTURE ACTIVITIES

- Production of a contour base map, using photogrammetry, of the proposed process plant site in the northern part of the tenement to assist with detailed site layout planning, subject to successful completion of a land purchase,

- Continue with efforts to identify alternative flat-land sites for the location of process plant, quarry infrastructure, quarry waste, dams, etc.
- Undertake a small air-core/RC drilling programme of about 5-6 shallow holes, including one omitted this year, to test for sand quality and depth at select locations. This will also assist mine planning.
- Subject to indications of market interest in hard rock silica, complete surface rock float sampling over the Eastern Quarry silica sand deposit. Similarly, undertake rock float sampling over the area between the Western Quarry and the western edge of the silica sand deposit.
- Continuation of ongoing beneficiation investigations at laboratory and possibly pilot plant scale to provide quality material for testing by potential customers.
- Continuing review of process plant design and sand extraction concepts with, capex and opex updates, as appropriate..
- Continue with efforts to identify sales opportunities and develop market contacts and relationships.
- Ongoing contact with state and local regulatory authorities, as well as civic associations, on project related matters and activities.
- Work towards the submission of a mining lease application covering 2.5 sq km approximately.

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APPENDIX 1

DRILL HOLE CO-ORDINATES AND ELEVATIONS

DH111 – DH124

981715				
Point	Easting	Northing	Height	Description
199	466046.01	5263747.71	393.44	DH111
202	466043.92	5263703.63	386.95	DH112
203	466085.07	5263710.68	387.53	DH113
190	465891.90	5263774.39	394.59	DH114
166	465756.10	5263823.51	387.92	DH115
169	465724.94	5263846.16	389.43	DH116
176	465655.47	5263853.44	386.54	DH117
173	465654.01	5263891.98	391.56	DH118
178	465663.42	5263935.95	400.80	DH119
179	465665.83	5263933.32	400.72	DH119A
184	465785.28	5263788.35	389.13	DH120
180	465750.50	5263787.78	385.60	DH121
183	465780.27	5263755.34	387.10	DH122
197	465932.81	5263846.03	411.81	DH123
205	465983.91	5263902.48	420.77	DH124
162	465708.70	5263938.34	412.01	No Hole

Note: Horizontal Datum: AGD 1966

APPENDIX 2

DRILL HOLE LOGS

DH111 – DH124

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

MAP SHEET: 4626 Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

DRILL HOLE: 111

METHOD: Air Core

AMG CO-ORDS: 5263748mN
466046mE

DATE: 08.06.2006

ANGLE: Vertical

LOGGED BY: G.K.

FINAL DEPTH: 16 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Brown sand; fine	170401
1	2	Buff-brown sand; med.- fine.	170402
2	3	Off-white, fine sand	170403
3	4	" " " ; coarse fract. ca. 5-10%	170404
4	5	" " " ; coarse fract. ca.1-2%	170405
5	6	" " " ; coarse fract. ca 1%	170406
6	7	Fin white sand; coarse fract. ca 1%	170407
7	8	Med-fine off white sand; minor clay.	170408
8	9	Pale buff fine sand, clayey	170409
9	10	" " " ; minor clay	170410
10	11	Brown, coarse sand; coarse fract. ca. 5-10%	170411
11	12	Dark brown clayey sand; coarse fract ca. 5%	170412
12	13	Brown clayey sand.	170413
13	14	Brown coarse sand	170414
14	15	Pale buff-white coarse sand	170415
15	16	Dark brown-black soil.	no sample

Hole stopped in basement soil.

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

MAP SHEET: 4626 Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

DRILL HOLE: 112

METHOD: Air Core

AMG CO-ORDS: 5263704
466044E

DATE: 08.06.2006

ANGLE: Vertical

LOGGED BY: G.K.

FINAL DEPTH: 11 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Brown,organic, med-coarse sand; coarse fract. ca 3-5%	170417
1	2	Brown,organic, med.-coarse sand; c.f. ca. 3-5%	170418
2	3	Buff, fine - med. sand;	170419
3	4	Pale buff-whitish coarse sand; c.f. ca. 5-10%	170420
4	5	Brown coarse sand; coarse fract. ca 5%	170421
5	6	Pale buff coarse sand; coarse fract. ca. 3-5%	170422
6	7	Buff med.-coarse sand	170423
7	8	Buff-light brown med.-coarse sand; c.f ca.1-3%	170424
8	9	" " " " " "	170425
9	10	Dark-brown organic-stained, ?clayey med.- coarse sand	170426
10	11	Dark brown sandy soil	170427

Hole bottomed at 11m.
RC hammer used from 8m

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

MAP SHEET: 4626 Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

DRILL HOLE: 113

METHOD: Air Core/RC hammer

AMG CO-ORDS: 5263711mN
466085mE

DATE: 08.06.2006

ANGLE: Vertical

LOGGED BY: G.K.

FINAL DEPTH: 7m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Buff-white, med. grained sand; c.f. ca. 3-5%	170428
1	2	" " " " c.f. ca. 1-3%	170429
2	3	" " " -fine sand; c.f. ca.1%	170430
3	4	Brown med. sand; c.f. ca. 3-5%	170431
4	5	" coarse, gravelly sand; c.f. ca. 10-15%	170432
5	6	Dark brown soil; muddy	no sample
6	7	" " " "	"

Hole bottomed at 7m
Ground water from 5 m.

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

MAP SHEET: 4626 Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

DRILL HOLE: 114

METHOD: Air Core/RC hammer

AMG CO-ORDS: 5263774mN
464892mE

DATE: 08.06.2006

ANGLE: Vertical

LOGGED BY: G.K.

FINAL DEPTH: 17 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Off-white to buff very coarse gravelly sand; coarse fract. ca. 50%	170433
1	2	As above; coarse fract. ca 20%	170434
2	3	Light brown coarse gravelly sand; c.f. ca. 50%	170435
3	4	As above: coarse fract. ca. +30%	170436
4	5	Brown coarse gravelly sand; c.f. ca. 10%	170437
5	6	Light brown to buff med. sand; c.f. ca. 1%	170438
6	7	" " " " fine - med sand; c.f ca. 1-2%	170439
7	8	Light brown-grey med.-coarse sand; cf ca 5%	170440
8	9	Light brown and buff med.-coarse sand; c.f. ca. 1-2%	170441
9	10	Buff med. sand; c.f. ca.1%	170442
10	11	As above	170443
11	12	As above.	170444
12	13	Off-white to buff grey med. sand;	170445
13	14	As above; c.f. ca.3-5%	170446
14	15	Off-white med. coarse sand; c.f. ca. 20%	170447
15	16	Mix of white and brown-stained sand;	170448
16	17	Dark brown, organic, med.-coarse sand; somewhat clayey; c.f. ca. 10-20%	170449

Hole stopped at 17m in dark chocolate br. soil.

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

METHOD: RC Hammer

DATE: 08.06.2006

LOGGED BY: G.K.

MAP SHEET: 4626 Maydena

DRILL HOLE: 115

AMG CO-ORDS: 5263824mN
465756mE

ANGLE: Vertical

FINAL DEPTH: 12 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Coarse gravelly, off-white sand; c.f.ca.30%	170450
1	2	Off white med.-coarse sand; c.f.ca.10-15%	170451
2	3	As above; c.f. ca. 15-20%	170452
3	4	As above; somewhat clayey; c.f. ca. 10%	170453
4	5	As above; but no clay c.f. ca. 5-10%	170454
5	6	As above; c.f. ca. 3-5%	170455
6	7	As above;	170456
7	8	As above; somewhat clayey; clay balling; cf.f ca. 1%	170457
8	9	Very clayey, buff fine sand; c.f. ca.1%	170458
9	10	Clayey, med-fine sand; c.f. ca. 1%	170459
10	11	Off-white to buff, fine-med. sand; clayey; cf 1-2%	170460
11	12	Dark chocolate-brown clayey soil	no sample
		Collar spoils sample	170461

Hole bottomed at 12 m in dark soil.

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

METHOD: RC Hammer

DATE: 09.06.2006

LOGGED BY: G.K.

MAP SHEET: 4626 Maydena

DRILL HOLE: 116

AMG CO-ORDS: 5263846mN
465725mE

ANGLE: Vertical

FINAL DEPTH: 8 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Off-white to buff med. sand; c.f. ca.1-3%	170462
1	2	As above; c.f. ca. 5%	170463
1	3	As above; c.f. ca. 5%	170464
3	4	As above: c.f. ca. 3-5%	170465
4	5	As above: c.f. ca. 5%	170466
5	6	As above: c.f. ca. 5%	170467
6	7	As above; c.f. ca. 5%	170468
7	8	Dark chocolate-brown clayey soil Drill collar spoils sample	no sample 170469

Hole bottomed at 7m in dark soil.

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

MAP SHEET: 4626 Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

DRILL HOLE: 117

METHOD: RC Hammer

AMG CO-ORDS: 5263853mN
465655mE

DATE: 09.06.2006

ANGLE: Vertical

LOGGED BY: G.K.

FINAL DEPTH: 5m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Black organic soil and gravel; drill pad mound;	no sample
1	2	Off white and buff coarse sand and gravel; c.f. ca. 5-10%	170470
2	3	As above; c.f. ca. 3-5%	170470A
3	4	Buff and light brown med.-coarse sand; c.f. ca. 3%	170471
4	5	Dark brown clayey soil	no sample

Hole stopped at 5m in soil.

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

MAP SHEET: 4626 Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

DRILL HOLE: 118

METHOD: RC Hammer

AMG CO-ORDS: 5263892mN
465654mE

DATE: 09.06.2006

ANGLE: Vertical

LOGGED BY: G. G.K.

FINAL DEPTH: 16 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Off-white coarse sand; c.f. 5-10%	170472
1	2	As above; c.f. ca. 10-15%	170473
2	3	As above c.f. ca. 10-15%	170474
3	4	Off-white fine-med. sand; c.f. 10-20%	170475
4	5	Off white med.-coarse sand; c.f. ca. 30-40%	170476
5	6	As above; c.f. ca. 30%	170477
6	7	White med.-coarse sand; c.f. ca. 30-40%	170478
7	8	Off white to pale buff fine-med sand; clayey; c.f. ca. 5-10%	170479
8	9	Off white, somewhat clayey med. sand; c.f. ca. 20%	170480
9	10	White fine-med sand; somewhat clayey;	170481
10	11	As above; c.f. ca. 10-15%	170482
11	12	Buff fine sand, clayey; c.f. ca. 5-10%	170483
12	13	Off white to buff fine sand; so newhat clayey; c.f. ca. 5%	170484
13	14	Off white fine-med. sand; c.f. ca. 5%	170485
14	15	Off white to buff fine sand, so newhat clayey; chocolate brown soil at base of run; c.f. ca. 3-5%	170486
15	16	Black sandy soil.	no sample

Hole stopped at 16m in black organic soil

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

METHOD: RC Hammer

DATE: 09.06.2006

LOGGED BY: G.K.

MAP SHEET: 4626 Maydena

DRILL HOLE: 119

AMG CO-ORDS: 5263936mN
465663mE

ANGLE: Vertical

FINAL DEPTH: 6 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Brown organic sandy soil with roots	70487
1	2	Light buff fine sand; c.f ca. 5%	70488
2	3	Off white fine sand; c.f. ca. 3-5%	70489
3	4	As above; c.f ca. 3-5%	70490
4	5	As above; c.f. ca. 10-15%	70491
5	6	Grey-white fine sand; c.f. ca. 10%	70492

Hole stopped at 6 m: slow drilling;
?big boulder or hard silica bedrock?

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

METHOD: RC HAMMER

DATE: 09.06.2006

LOGGED BY: G.K.

MAP SHEET: 4626 Maydena

DRILL HOLE: 119A

AMG CO-ORDS: 5263933mN
465666mE

ANGLE: Vertical

FINAL DEPTH: 11 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Off-white med.-fine sand; c.f ca. 15-20%	70492
1	2	White med.-fine sand; c.f. ca. 10%	70494
2	3	As above; c.f ca. 5%	70495
3	4	Off-white fine-med.sand; c.f. ca. 5%	70496
4	5	As above; c.f. ca. 5%	70497
5	6	As above; c.f. ca. 5-10%	70498
6	7	As above; c.f. ca. 10-15%	70499
7	8	As above; c.f. ca. 15-20%	70500
8	9	As above; c.f. ca. 15-29%	70501
9	10	As above; c.f. ca. 5%	70502
10	11	As above; c.f ca. 5-10%	70503

E.O.H at 11m: struck hard boulder/?silica bedrock.

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

MAP SHEET: 4626 Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

DRILL HOLE: 120

METHOD: RC Hammer

AMG CO-ORDS: 5263788mN
465785mE

DATE: 09.06.2006

ANGLE: Vertical

LOGGED BY: G.K.

FINAL DEPTH: 12 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Buff fine- med. sand; c.f. ca. 10%	70504
1	2	Off white fine-med sand; c.f. ca 5%	70505
2	3	As above; c.f. ca. 5%	70506
3	4	As above; c.f. ca. 3-5%	70507
4	5	As above; c.f. ca. 5-10%	70508
5	6	Pale buff med.-coarse sand, somewhat clayey;	70509
6	7	Buff med.-coarse sand; clayey; c.f. ca. 5-10%	70510
7	8	Buff coarse sand, somewhat clayey; c.f. ca. 5%	70511
8	9	Light brown to grey brown fine clayey sand c.f. 5%	70512
9	10	Light brown to grey brown med.-coarse sand; c.f. ca. 5%	70513
10	11	Brown soil;	no sample
11	12	Light brown sandy clay	no sample

Hole bottomed at 12 m in soil.

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

METHOD: RC Hammer

DATE: 09.06.2006

LOGGED BY: G.K.

MAP SHEET: 4626 Maydena

DRILL HOLE: 121

AMG CO-ORDS: 5263788mN
465751mE

ANGLE: Vertical

FINAL DEPTH: 5 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Black organic soil and sand (drill pad)	no sample
1	2	Off white med. sand. c.f. ca. 5%	70513
2	3	As above; c.f. ca. 10%	70515
3	4	Sample $\frac{1}{2}$ buff sand, $\frac{1}{2}$ dark brown/black soil	70516
4	5	Black organic soil	no sample

Hole bottomed at 5 m in black soil.

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

MAP SHEET: 4626 Maydena

DRILLER: Tasmanian Drilling Services Pty. Ltd.

DRILL HOLE: 122

METHOD: RC Hammer

AMG CO-ORDS: 5263755mN
465780mE

DATE: 10.06.2006

ANGLE: Vertical

LOGGED BY: G.K.

FINAL DEPTH: 5 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	No sample obtained	no sample
1	2	Off white med.-coarse sand; c.f. ca. 10-15%	70518
2	3	White grey/buff coarse gritty sand; c.f. ca. 30%	70519
3	4	As above; c.f. ca. 10%	70520
4	5	Buff med.-coarse sand, somewhat clayey; c.f. ca. 5-10%	70521
		Drill collar spoils sample	70544

Hole stopped at 5m; blockages due to cementing of sand;
Base of hole wet.

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

MAP SHEET: 4626 Maydena

DRILLER: Tasmanian Drilling Services Ptv. Ltd.

DRILL HOLE: 123

METHOD: RC Hammer

AMG CO-ORDS: 5263846mN
4659 mE

DATE: 10.06.2006

ANGLE: Vertical

LOGGED BY: G.K.

FINAL DEPTH: 20 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	No drill sample generated	no sample
1	2	Coarse gravel, grit and rock chips	70522
2	3	Off white coarse sand; c.f. ca 10-25%	70523
3	4	Offwhite to buff med.-coarse sand; c.f. ca.3-5%	70524
4	5	Off white fine-med. sand; c.f. ca. 3%	70525
5	6	As above; c.f. ca. 3%	70526
6	7	Off white fine sand; c.f. ca. 2%	70527
7	8	Off white fine-med. sand; c.f.ca.2-5%	70528
8	9	Pale buff med. sand; c.f ca. 1-2%	70529
9	10	Pale buff fine-med. sand; c.f. ca 1-2%	70530
10	11	Off white fine-med sand; c.f. ca.1-2%	70531
11	12	As above; c.f. ca. 1-2%	70532
12	13	Light grey med. sand; c.f. ca. 2-3%	70533
13	14	Off white fine-med sand; c.f. ca. 2-3%	70534
14	15	White fine sand; c.f.ca. 2%	70535
15	16	Off white to pale grey fine-med sand; c.f. ca. 5%	70536
16	17	Light orange-brown sand with band of orange brown clay; no coarse frags.	70537
17	18	Orange and light grey clay mix; somewhat sandy;	70538
18	19	Mix of fine-med. light orange brown sand and red brown to brown clay	70539
19	20	Light orange med. sand; c.f. ca. 3-5%	70540
		Drill collar spoils sample	70541

Hole stopped at 20 m in buff-orange sand.
"Dirty" ground.

DRILL HOLE LOG

AREA: Eastern Quarry Area, Pine Hill, Maydena

MAP SHEET: 4626 Maydena

DRILLER: Tasmanian Drilling Services Pty.Ltd.

DRILL HOLE: 124

METHOD: RC Hammer

AMG CO-ORDS: 5263902mN
465984mE

DATE: 10.06.2006

ANGLE: Vertical

LOGGED BY: G.K.

FINAL DEPTH: 2 m

FROM	TO	DESCRIPTION	SAMPLE NUMBER
0	1	Dirty organic buff brown mwd.-coarse sand; c.f ca. 5%	70542
1	2	Silica bedrock: white sand returns.	70543

Hole stopped at 2m in silica rock.

APPENDIX 3

ASSAY RESULTS – DRILL HOLE SAMPLES



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Account: MCDSON

CERTIFICATE BR06053089

Project:

P.O. No.: ALS224185

This report is for 146 Other samples submitted to our lab in Brisbane, QLD, Australia on 23-JUN-2006.

The following have access to data associated with this certificate:

GERHARD KRUMMEI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode
PUL-80	Pulverize Mineral Sands
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP64	Method for Silica Sample Sand	ICP-AES

To: MAYDENA SANDS PTY LTD
ATTN: GERHARD KRUMMEI
SUITE 28/487 ST KILDA ROAD
MELBOURNE VIC 3004

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:


Shaun Kenny, Brisbane Laboratory Manager



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CERTIFICATE OF ANALYSIS BR06053089

Sample Description	Method Analyte Units LOR	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64
		Al2O3 %	CaO %	Cr2O3 ppm	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	TiO2 %	V2O5 %
		0.001	0.001	1	0.001	0.001	0.001	0.001	0.001	0.001	0.001
170400		0.010	0.008	5	0.005	0.001	0.003	<0.001	0.002	0.001	<0.001
170401	DH 111 0-1m	0.121	0.035	3	0.388	0.014	0.024	0.002	0.015	0.051	0.001
170402	1-2	0.055	0.021	4	0.139	0.007	0.011	0.001	0.003	0.029	<0.001
170403	2-3	0.030	0.017	3	0.042	0.002	0.006	<0.001	0.002	0.008	<0.001
170404	3-4	0.035	0.016	3	0.057	0.002	0.006	<0.001	0.002	0.019	<0.001
170405	4-5	0.022	0.015	1	0.031	0.001	0.004	<0.001	0.002	0.008	<0.001
170406	5-6	0.014	0.026	4	0.019	0.001	0.005	<0.001	0.002	0.012	<0.001
170407	6-7	0.011	0.006	3	0.011	0.001	0.003	<0.001	0.003	0.008	<0.001
170408	7-8	0.023	0.015	2	0.042	0.003	0.006	<0.001	0.002	0.013	<0.001
170409	8-9	0.041	0.031	4	0.059	0.006	0.013	0.001	0.003	0.017	<0.001
170410	9-10	0.017	0.035	6	0.023	0.003	0.008	<0.001	0.002	0.009	<0.001
170411	10-11	0.029	0.007	5	0.022	<0.001	0.004	<0.001	0.002	0.057	<0.001
170412	11-12	0.064	0.048	6	0.094	0.002	0.023	0.001	0.003	0.065	<0.001
170413	12-13	0.045	0.036	6	0.088	0.002	0.014	0.001	0.002	0.061	<0.001
170414	13-14	0.010	0.015	3	0.026	0.001	0.007	<0.001	0.002	0.039	<0.001
170415	14-15	0.025	0.011	4	0.023	0.002	0.006	<0.001	0.002	0.100	<0.001
170416	15-16	0.273	0.026	8	0.037	0.002	0.014	<0.001	0.002	0.068	<0.001
170417	DH 112 0-1m	0.205	0.015	5	0.160	0.013	0.011	<0.001	0.004	0.082	0.001
170418	1-2	1.190	0.029	9	0.057	0.101	0.031	<0.001	0.005	0.245	0.001
170419	2-3	0.402	0.024	3	0.016	0.017	0.010	<0.001	0.003	0.072	<0.001
170420	3-4	0.087	0.018	4	0.013	0.002	0.007	<0.001	0.003	0.049	<0.001
170421	4-5	0.616	0.034	10	0.021	0.025	0.012	<0.001	0.003	0.101	<0.001
170422	5-6	0.066	0.012	3	0.009	0.001	0.006	<0.001	0.003	0.067	<0.001
170423	6-7	0.305	0.028	2	0.012	0.009	0.011	<0.001	0.003	0.067	<0.001
170424	7-8	0.117	0.021	1	0.036	0.003	0.011	<0.001	0.002	0.064	<0.001
170425	8-9	0.038	0.014	<1	0.013	0.002	0.008	<0.001	0.002	0.076	<0.001
170426	9-10	1.090	0.040	13	0.055	0.175	0.047	<0.001	0.005	0.242	0.002
170427	10-11	3.65	0.800	126	1.225	0.292	0.097	0.001	0.006	0.148	0.011
170428	DH 113 0-1m	0.116	0.021	2	0.021	0.004	0.007	<0.001	0.003	0.073	<0.001
170429	1-2	0.299	0.029	3	0.024	0.014	0.009	<0.001	0.003	0.071	<0.001
170430	2-3	0.389	0.052	4	0.041	0.014	0.013	<0.001	0.003	0.056	<0.001
170431	3-4	1.155	0.110	11	0.070	0.054	0.021	<0.001	0.004	0.091	0.001
170432	4-5	0.385	0.036	3	0.018	0.020	0.012	<0.001	0.002	0.040	<0.001
170433	DH 114 0-1	0.920	0.008	<1	0.009	0.001	0.004	<0.001	0.003	0.012	<0.001
170434	1-2	0.026	0.021	<1	0.011	0.001	0.010	<0.001	0.003	0.013	<0.001
170435	2-3	0.035	0.017	1	0.036	0.003	0.009	<0.001	0.003	0.024	<0.001
170436	3-4	0.069	0.011	1	0.029	0.003	0.005	<0.001	0.003	0.020	<0.001
170437	4-5	0.095	0.012	1	0.063	0.002	0.007	<0.001	0.003	0.022	<0.001
170438	5-6	0.072	0.014	1	0.060	0.004	0.006	<0.001	0.003	0.009	<0.001
170439	6-7	0.061	0.014	2	0.075	0.003	0.007	<0.001	0.003	0.007	<0.001

Eastern Quarry: Ceramic sample; -250 μ.



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CERTIFICATE OF ANALYSIS BR06053089

Sample Description	Method Analyte Units LOR	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64
		Al2O3 %	CaO %	Cr2O3 ppm	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	TiO2 %	V2O5 %
170440 DH114 7-8m		0.022	0.019	3	0.110	0.001	0.010	0.001	0.003	0.005	<0.001
170441	8-9	0.020	0.025	5	0.087	<0.001	0.010	0.001	0.003	0.005	<0.001
170442	9-10	0.009	0.020	1	0.025	<0.001	0.009	<0.001	0.003	0.002	<0.001
170443	10-11	0.009	0.017	4	0.084	<0.001	0.008	0.001	0.003	0.002	<0.001
170444	11-12	0.007	0.008	4	0.080	0.001	0.005	0.001	0.003	0.004	<0.001
170445	12-13	0.008	0.015	2	0.050	<0.001	0.008	<0.001	0.003	0.012	<0.001
170446	13-14	0.010	0.021	1	0.019	0.001	0.010	<0.001	0.003	0.016	<0.001
170447	14-15	0.015	0.020	1	0.038	<0.001	0.009	<0.001	0.003	0.016	<0.001
170448	15-16	0.511	0.032	7	0.056	0.002	0.008	<0.001	0.004	0.056	<0.001
170449	16-17	0.360	0.022	4	0.041	0.001	0.007	<0.001	0.003	0.065	<0.001
170450 DH115 0-1m		0.018	0.010	1	0.016	0.001	0.005	<0.001	0.003	0.035	<0.001
170451	1-2	0.017	0.017	2	0.016	0.001	0.008	<0.001	0.003	0.069	<0.001
170452	2-3	0.014	0.019	1	0.016	0.001	0.010	<0.001	0.003	0.061	<0.001
170453	3-4	0.025	0.039	3	0.042	0.003	0.021	0.001	0.004	0.079	<0.001
170454	4-5	0.012	0.014	1	0.009	<0.001	0.007	<0.001	0.003	0.035	<0.001
170455	5-6	0.012	0.018	2	0.010	<0.001	0.009	<0.001	0.003	0.032	<0.001
170456	6-7	0.013	0.021	1	0.010	<0.001	0.011	<0.001	0.003	0.045	<0.001
170457	7-8	0.024	0.039	1	0.025	0.001	0.020	<0.001	0.003	0.096	<0.001
170458	8-9	0.027	0.054	1	0.025	0.003	0.027	<0.001	0.003	0.080	<0.001
170459	9-10	0.023	0.042	1	0.021	0.001	0.021	<0.001	0.003	0.059	<0.001
170480	10-11	0.021	0.043	1	0.020	0.001	0.022	<0.001	0.003	0.057	<0.001
170481	Collar	0.058	0.028	4	0.101	0.007	0.015	0.001	0.007	0.074	<0.001
170482 DH116 0-1m		0.024	0.015	1	0.018	0.001	0.007	<0.001	0.003	0.054	<0.001
170483	1-2	0.025	0.017	1	0.024	0.002	0.007	<0.001	0.003	0.048	<0.001
170484	2-3	0.027	0.017	1	0.023	0.001	0.007	<0.001	0.003	0.046	<0.001
170485	3-4	0.019	0.013	<1	0.016	0.001	0.005	<0.001	0.003	0.030	<0.001
170486	4-5	0.017	0.015	<1	0.012	0.001	0.006	<0.001	0.003	0.059	<0.001
170487	5-6	0.020	0.015	1	0.024	<0.001	0.007	<0.001	0.003	0.047	<0.001
170488	6-7	0.022	0.014	<1	0.010	0.001	0.006	<0.001	0.003	0.038	<0.001
170489	Collar	0.044	0.023	2	0.089	0.004	0.010	0.001	0.005	0.039	<0.001
170470 DH117 1-2m		0.023	0.025	1	0.009	0.001	0.011	<0.001	0.003	0.081	<0.001
170471	3-4	0.099	0.023	2	0.010	0.004	0.010	<0.001	0.002	0.111	<0.001
170472 DH118 0-1m		0.036	0.022	2	0.026	0.001	0.010	<0.001	0.004	0.098	<0.001
170473	1-2	0.038	0.020	2	0.021	0.002	0.009	<0.001	0.004	0.102	<0.001
170474	2-3	0.031	0.013	1	0.014	0.001	0.006	<0.001	0.003	0.107	<0.001
170475	3-4	0.025	0.015	1	0.011	0.001	0.007	<0.001	0.003	0.078	<0.001
170476	4-5	0.052	0.016	1	0.013	0.001	0.007	<0.001	0.003	0.073	<0.001
170477	5-6	0.025	0.012	<1	0.010	0.002	0.005	<0.001	0.002	0.066	<0.001
170478	6-7	0.016	0.012	<1	0.005	<0.001	0.005	<0.001	0.002	0.066	<0.001
170479	7-8	0.047	0.031	2	0.024	0.001	0.014	<0.001	0.003	0.114	<0.001



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CERTIFICATE OF ANALYSIS BR06053089

Sample Description	Method Analyte Units LOR	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	
		Al2O3 %	CaO %	Cr2O3 ppm	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	TiO2 %	V2O5 %
DH118 8-9m	70480	0.019	0.018	<1	0.009	<0.001	0.008	<0.001	0.002	0.074	<0.001
	70481	0.037	0.028	<1	0.008	0.001	0.017	<0.001	0.002	0.049	<0.001
	70482	0.024	0.028	<1	0.009	<0.001	0.012	<0.001	0.001	0.015	<0.001
	70483	0.026	0.049	1	0.043	0.001	0.024	<0.001	0.002	0.030	<0.001
	70484	0.021	0.050	<1	0.031	<0.001	0.022	<0.001	0.002	0.021	<0.001
DH119 0-1m	70485	0.020	0.039	<1	0.013	0.001	0.018	<0.001	0.002	0.036	<0.001
	70486	0.025	0.062	<1	0.032	0.001	0.026	<0.001	0.002	0.013	<0.001
DH119 1-2	70487	0.028	0.038	<1	0.038	0.002	0.021	<0.001	0.004	0.038	<0.001
	70488	0.024	0.037	<1	0.014	0.001	0.015	<0.001	0.002	0.029	<0.001
	70489	0.018	0.031	<1	0.017	<0.001	0.012	<0.001	0.001	0.014	<0.001
DH119 3-4	70490	0.014	0.036	<1	0.013	0.001	0.014	<0.001	0.002	0.007	<0.001
	70491	0.019	0.045	<1	0.025	<0.001	0.020	<0.001	0.002	0.022	<0.001
	70492	0.030	0.054	2	0.104	<0.001	0.021	0.001	0.002	0.052	<0.001
DH119 5-6	70493	0.024	0.027	<1	0.014	0.001	0.012	<0.001	0.002	0.030	<0.001
	70494	0.022	0.031	<1	0.008	<0.001	0.013	<0.001	0.001	0.014	<0.001
DH119 1-2	70495	0.015	0.033	<1	0.009	0.001	0.015	<0.001	0.002	0.015	<0.001
	70496	0.019	0.038	<1	0.006	<0.001	0.017	<0.001	0.001	0.012	<0.001
	70497	0.019	0.059	<1	0.008	0.001	0.028	<0.001	0.002	0.012	<0.001
	70498	0.027	0.106	<1	0.013	<0.001	0.053	<0.001	0.002	0.015	<0.001
	70499	0.023	0.064	<1	0.012	0.001	0.029	<0.001	0.002	0.018	<0.001
	70500	0.028	0.070	<1	0.014	0.001	0.036	<0.001	0.002	0.040	<0.001
	70501	0.030	0.046	<1	0.018	0.001	0.023	<0.001	0.002	0.027	<0.001
DH120 0-1m	70502	0.024	0.033	<1	0.012	0.001	0.014	<0.001	0.002	0.025	<0.001
	70503	0.026	0.063	1	0.025	0.001	0.029	<0.001	0.002	0.041	<0.001
DH120 1-2	70504	0.022	0.016	1	0.022	0.002	0.008	<0.001	0.004	0.142	<0.001
	70505	0.020	0.020	1	0.017	0.001	0.008	<0.001	0.003	0.094	<0.001
	70506	0.014	0.015	1	0.013	<0.001	0.006	<0.001	0.003	0.064	<0.001
	70507	0.015	0.013	1	0.014	0.001	0.005	<0.001	0.003	0.070	<0.001
	70508	0.010	0.010	1	0.010	0.001	0.005	<0.001	0.003	0.060	<0.001
	70509	0.017	0.015	1	0.016	0.001	0.007	<0.001	0.003	0.060	<0.001
DH121 1-2m	70510	0.012	0.020	1	0.012	0.001	0.009	<0.001	0.003	0.047	<0.001
	70511	0.010	0.011	<1	0.009	0.001	0.005	<0.001	0.003	0.028	<0.001
	70512	0.019	0.032	2	0.019	0.001	0.015	<0.001	0.003	0.093	<0.001
	70513	0.021	0.037	1	0.014	<0.001	0.019	<0.001	0.003	0.081	<0.001
DH122 1-2m	70514	0.018	0.017	1	0.013	0.002	0.007	<0.001	0.003	0.061	<0.001
	70515	0.016	0.025	2	0.012	0.001	0.012	<0.001	0.003	0.053	<0.001
	70516	0.017	0.022	1	0.012	<0.001	0.010	<0.001	0.003	0.062	<0.001
	70517	0.013	0.012	1	0.010	<0.001	0.006	<0.001	0.003	0.046	<0.001
DH122 2-3	70518	0.010	0.009	1	0.014	<0.001	0.003	<0.001	0.003	0.063	<0.001
	70519	0.013	0.011	1	0.017	<0.001	0.004	<0.001	0.003	0.072	<0.001



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CERTIFICATE OF ANALYSIS BR06053089

Sample Description	Method Analyte Units LOR	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64
		Al2O3 %	CaO %	Cr2O3 ppm	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	TiO2 %	V2O5 %
70520	DH122 3-4	0.015	0.012	2	0.020	<0.001	0.005	<0.001	0.003	0.157	<0.001
70521	4-5	0.023	0.025	2	0.035	0.002	0.008	<0.001	0.003	0.203	<0.001
70522	DH123 1-2	0.028	0.012	1	0.008	<0.001	0.005	<0.001	0.002	0.041	<0.001
70523	2-3	0.013	0.020	<1	0.012	<0.001	0.005	<0.001	0.001	0.014	<0.001
70524	3-4	0.011	0.022	<1	0.019	<0.001	0.003	<0.001	0.001	0.018	<0.001
70525	4-5	0.007	0.026	<1	0.010	<0.001	0.009	<0.001	0.002	0.015	<0.001
70526	5-6	0.008	0.021	<1	0.012	<0.001	0.008	<0.001	0.002	0.021	<0.001
70527	6-7	0.007	0.021	<1	0.011	0.001	0.004	<0.001	0.002	0.018	<0.001
70528	7-8	0.012	0.021	<1	0.010	<0.001	0.005	<0.001	0.001	0.033	<0.001
70529	8-9	0.010	0.006	1	0.016	<0.001	0.003	<0.001	0.002	0.067	<0.001
70530	9-10	0.014	0.013	2	0.009	<0.001	0.005	<0.001	0.002	0.060	<0.001
70531	10-11	0.007	0.017	<1	0.012	<0.001	0.007	<0.001	0.001	0.035	<0.001
70532	11-12	0.010	0.022	2	0.026	0.001	0.008	<0.001	0.002	0.029	<0.001
70533	12-13	0.012	0.017	2	0.077	0.001	0.006	0.001	0.002	0.048	<0.001
70534	13-14	0.010	0.033	<1	0.022	0.001	0.009	<0.001	0.002	0.031	<0.001
70535	14-15	0.007	0.034	<1	0.009	<0.001	0.007	<0.001	0.001	0.016	<0.001
70536	15-16	0.087	0.024	2	0.031	0.001	0.006	<0.001	0.002	0.042	<0.001
70537	16-17	1.005	0.022	7	0.720	0.123	0.048	<0.001	0.004	0.190	0.003
70538	17-18	3.18	0.023	25	1.565	0.331	0.114	0.001	0.008	0.338	0.006
70539	18-19	1.345	0.022	9	0.490	0.136	0.052	<0.001	0.004	0.116	0.002
70540	19-20	0.468	0.021	3	0.187	0.040	0.018	<0.001	0.003	0.041	0.001
70541	collar	0.036	0.030	3	0.108	0.001	0.010	0.002	0.003	0.041	<0.001
70542	DH124 0-1m	0.060	0.019	1	0.035	0.004	0.010	<0.001	0.003	0.041	<0.001
70543	1-2	0.040	0.014	1	0.031	0.003	0.007	<0.001	0.002	0.046	<0.001
70544	DH122 collar	0.018	0.020	2	0.044	<0.001	0.008	<0.001	0.003	0.119	<0.001
EXTRA 70470 A	DH117 2-3m	0.027	0.021	1	0.014	0.002	0.009	<0.001	0.004	0.086	<0.001

APPENDIX 4

ASSAY RESULTS – ROCK SAMPLES



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Finalized Date: 11-NOV-2006

Account: MCDSON

CERTIFICATE BR06064551

Project:

P.O. No.: 224186

This report is for 11 Crushed Rock samples submitted to our lab in Brisbane, QLD, Australia on 26-JUN-2006.

The following have access to data associated with this certificate:

GERHARD KRUMMEI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LEV-01	Waste Disposal Levy
PUL-42	Pulverize Agate Mill
SPL-21	Split sample - riffle splitter

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
ME-ICP64	Method for Silica Sample Sand	ICP-AES

To: **MAYDNA SANDS PTY LTD**
ATTN: GERHARD KRUMMEI
SUITE 28/487 ST KILDA ROAD
MELBOURNE VIC 3004

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Comments: This is an amended report. Note inclusion of P2O5 results as requested 10/11/06.

Signature:

Shaun Kenny, Brisbane Laboratory Manager



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CERTIFICATE OF ANALYSIS BR06064551

Sample Description	Method Analyte Units LOR	QA-GRA05	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	ME-ICP64	
		LOI %	Al2O3 %	CaO %	Cr2O3 ppm	Fe2O3 %	K2O %	MgO %	MnO %	Na2O %	TiO2 %	V2O5 %	P2O5 %
		0.01	0.001	0.001	1	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
EQ025R		0.19	0.057	0.021	2	0.016	0.004	0.006	<0.001	0.002	0.015	<0.001	0.005
EQ026R		0.17	0.033	0.018	2	0.009	0.003	0.006	<0.001	0.002	0.031	<0.001	0.001
EQ027R		0.16	0.043	0.037	1	0.008	0.004	0.014	<0.001	0.003	0.012	<0.001	0.006
EQ028R		0.15	0.019	0.037	<1	0.006	0.002	0.009	<0.001	0.002	0.025	<0.001	0.013
EQ029R		0.13	0.026	0.035	<1	0.006	0.002	0.015	<0.001	0.002	0.019	<0.001	0.006
EQ030R		0.17	0.024	0.030	<1	0.006	0.006	0.013	<0.001	0.002	0.015	<0.001	0.004
EQ031R		0.26	0.174	0.014	1	0.024	0.018	0.006	<0.001	0.002	0.005	<0.001	0.003
EQ032R		0.20	0.072	0.022	1	0.007	0.006	0.009	<0.001	0.003	0.096	<0.001	0.002
EQ033R		0.23	0.046	0.064	9	0.013	0.004	0.033	<0.001	0.002	0.020	<0.001	0.005
EQ034R		0.13	0.027	0.026	<1	0.004	0.002	0.004	<0.001	0.002	0.014	<0.001	0.007
EQ035R		0.11	0.009	0.030	1	0.006	0.001	0.003	<0.001	0.002	0.031	<0.001	0.001

Comments: This is an amended report. Note inclusion of P2O5 results as requested 10/11/06.

APPENDIX 5

ASSAY RESULTS – BULK SAMPLES



27 February, 2006

CERTIFICATE OF ANALYSIS (page 1 of 2)

Maydena Sands Pty Ltd
Suite 28, 487 St Kilda Road
Melbourne Victoria 3000
Attn: Gerhard Krummei

WORKORDER NO: BR06011178
SAMPLE TYPE: Silica
DATE RECIEVED: 13 February, 2006
CLIENT ORDER NO: 224184

Sample ID	Analyte	Al2O3	Fe2O3	TiO2	Cr2O3	CaO
	Unit	%	%	%	ppm	%
	Lower Reporting Limit	0.001	0.001	0.001	1	0.001
101B-1		0.007	0.004	0.006	<1	0.026
101B-2		0.010	0.007	0.007	<1	0.029
101B-3		0.007	0.004	0.004	<1	0.030
101B-4		0.007	0.004	0.007	<1	0.033
101B-5		0.006	0.004	0.009	<1	0.038
101B-6		0.009	0.006	0.010	<1	0.031

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CERTIFICATE OF ANALYSIS (page 2 of 2)

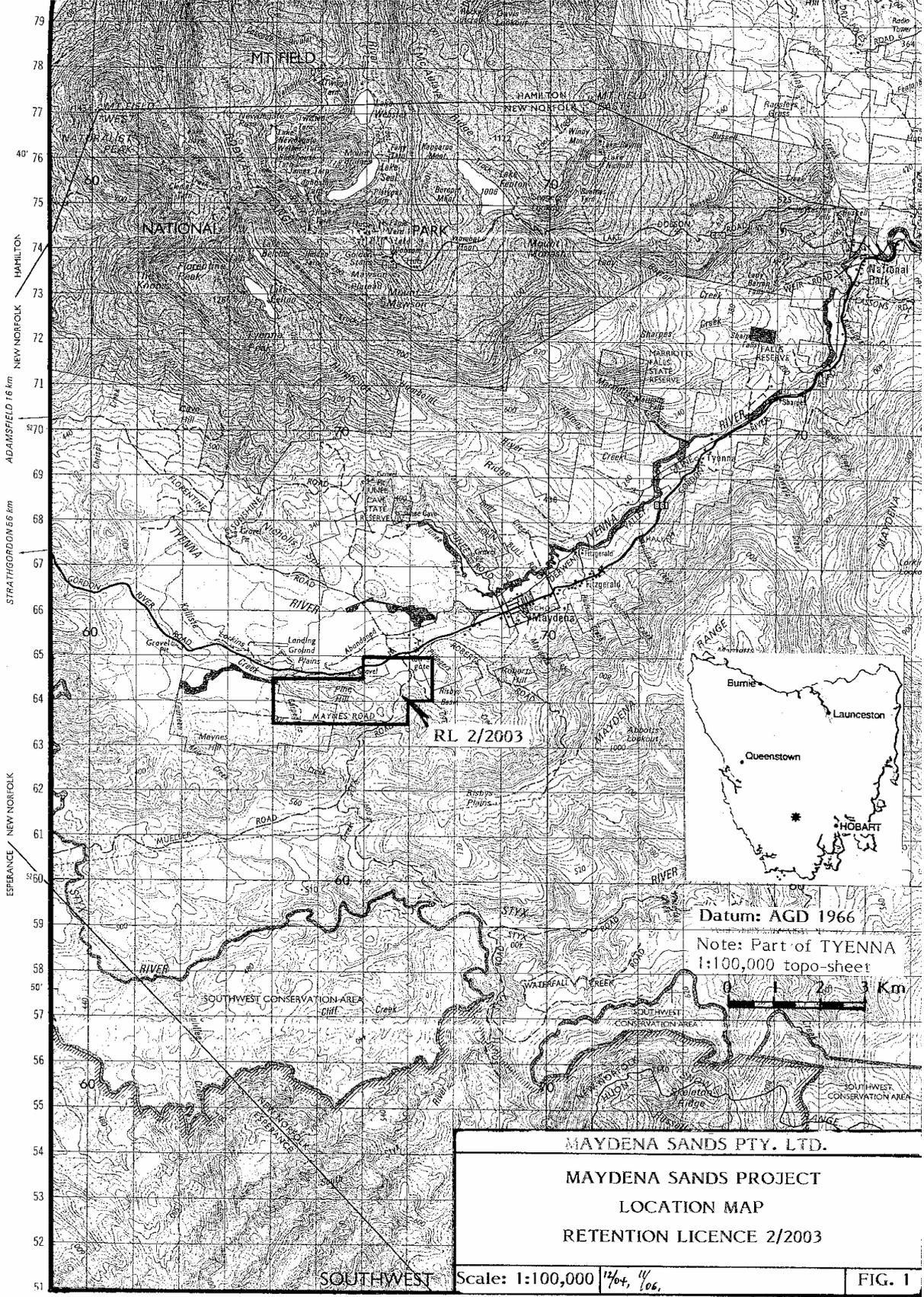
Maydena Sands Pty Ltd
Suite 28, 487 St Kilda Road
Melbourne Victoria 3000
Attn: Gerhard Krummei

WORKORDER NO: BR06011178
SAMPLE TYPE: Silica
DATE RECIEVED: 13 February, 2006
CLIENT ORDER NO: 224184

Sample ID	Analyte	MgO	MnO	V2O5	Na2O	K2O	LOI
	Unit	%	%	%	%	%	%
	Lower Reporting Limit	0.001	0.001	0.001	0.001	0.001	0.01
101B-1		0.005	<0.001	<0.001	0.001	0.001	0.26
101B-2		0.006	<0.001	<0.001	0.001	<0.001	0.30
101B-3		0.006	<0.001	<0.001	0.001	0.001	0.17
101B-4		0.006	<0.001	<0.001	0.001	<0.001	0.17
101B-5		0.009	<0.001	<0.001	0.001	<0.001	0.19
101B-6		0.008	<0.001	<0.001	0.002	<0.001	0.22

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ILLUSTRATIONS



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HAMILTON
NEW NORFOLK
ADAMSFIELD 16 km
STRATHGORDON 66 km
NEW NORFOLK
NEW NORFOLK
ESPERANCE

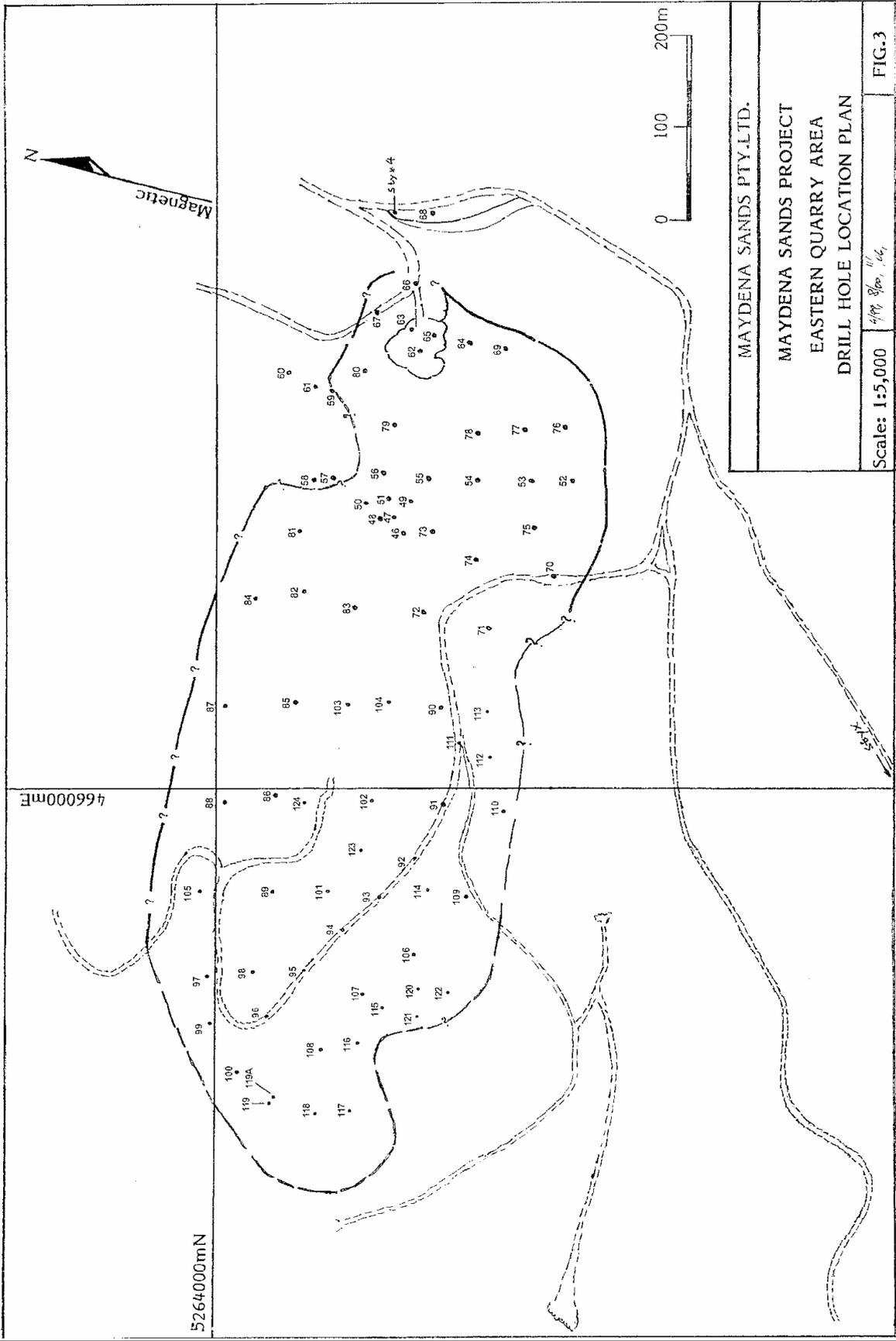
Datum: AGD 1966
Note: Part of TYENNA
1:100,000 topo-sheet

0 1 2 3 Km

MAYDNA SANDS PTY. LTD.
MAYDNA SANDS PROJECT
LOCATION MAP
RETENTION LICENCE 2/2003

Scale: 1:100,000 11/04, 11/06

FIG. 1



MAYDENA SANDS PROJECT
 EASTERN QUARRY AREA
 DRILL HOLE LOCATION PLAN

MAYDENA SANDS PTY.LTD.

FIG.3

Scale: 1:5,000

4/11/08 J. Jones

