



MANTLE MINING

ASX: MNM

DIRECTORS

Mr Martin Blakeman
Chairman

Mr Ian Kraemer
Managing Director

Mr Peter Anderton
Non-Executive Director

Mr Stephen de Belle
Non-Executive Director

COMPANY SECRETARY

Mr Winton Willesee

PRINCIPAL PLACE OF BUSINESS AND REGISTERED OFFICE

Suite 25,
145 Stirling Highway,
Nedlands WA 6009

CONTACT DETAILS

Website:
www.mantlemining.com

Email:
admin@mantlemining.com

ph: + 61 (8) 9389 3130
fax: + 61 (8) 9389 3199

P.O. Box 3144
Nedlands WA 6009

ASX Release

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Bacchus Marsh Drill Program.

Mantle Mining Corporation Limited (ASX: MNM) Mantle, is pleased to provide the following update on drill program planning for the Company's Bacchus Marsh Coal Project in Victoria. The program is being designed to upgrade the Company's 1 – 2 Billion tonne Exploration Target[#] into a maiden JORC Inferred Resource base.

Highlights:

- GHD, a world leading engineering consultancy pre-eminent in coal geological and mine planning service provision in Victoria, has been contracted to provide exploration design, oversight and JORC reporting at Bacchus Marsh:
 - Stage 1: Program Design (drill hole layout) Completed
 - Stage 2: Work Plan (for Government approval) In Progress
 - Stage 3: Program Oversight (support & validation)
 - Stage 4: Geological Modeling (3D geology & volumes)
 - Stage 5: Resource Estimation (maiden JORC resource base)
- Stage 1 is now complete and included a review of the historic drill hole database and development of a 1.6km spaced drill hole layout for compliance with accepted standards for brown coal JORC Inferred Resource level of confidence in Victoria. The program includes:
 - Drilling 3 holes to confirm quality of the historic 1960's & 1980's holes,
 - Accepting the historic holes if the confirmation holes prove successful,
 - Drilling 12 new in-fill holes to ensure full exploration area coverage.
- Mantle is finalizing a detailed plan with the main Victorian brown coal laboratory to cover all requisite coal analyses. All drill holes will be chip drilled through the overlying strata and core sampled through the coal seam.
- Two of the new holes will have ground water monitoring stations installed in order to enhance the pre-existing Government monitoring well network.
- Mantle is also finalizing selection of a drilling contractor and associated service providers with drill program execution targeted for August/September.

More Information:

Ian Kraemer
Mantle Mining
Mob: 0407 758 722

Media Enquiries:

Doug MacDonald
Capital Group
Mob: 0424 255 959

[#] The potential quantity and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration to define a Mineral Resource, and it is uncertain if further exploration will result in the determination of a Mineral Resource.

EL 5294 contains the historic Bacchus Marsh brown coal deposit. The deposit is located 50km to the west of Melbourne and a similar distance north of the port of Geelong (Figure 1). Based on a detailed review of historic drilling, Mantle is of the view that EL 5294 contains an Exploration Target[#] between 1 and 2 billion tonnes of coal (Figure 2).

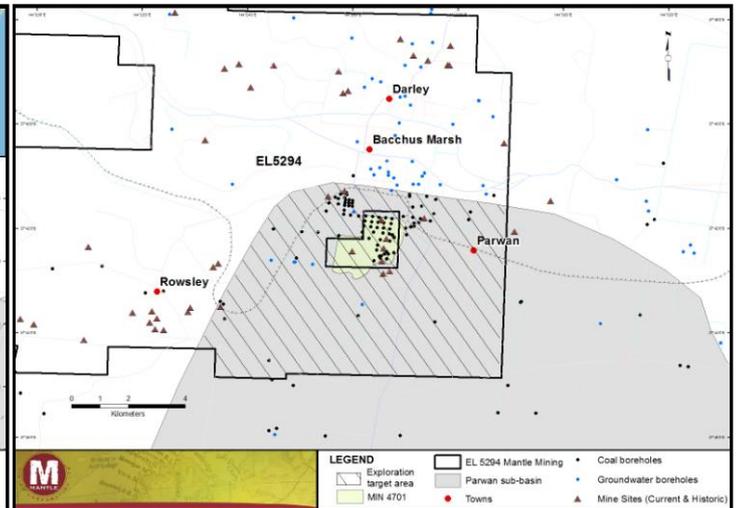
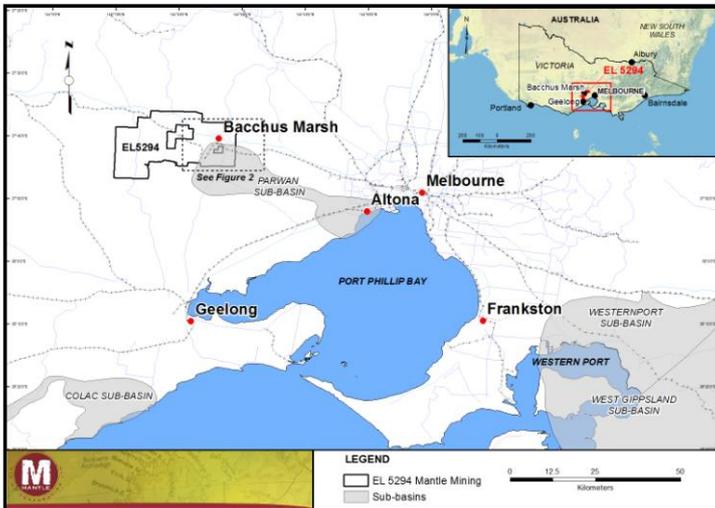


Figure 1: Bacchus Marsh EL 5294 with Victorian Coal Fields.

Figure 2: EL 5294 and brown coal Exploration Target area.

GHD developed a model from historic drill hole data to provide regional trends and depth estimates used to assist in drill hole layout design. Figure 3 shows cross-section slices of the coal seam modelled from the historic data. Figure 4 shows proposed locations of 15 new holes (central to red circles) and the historic holes (central to blue circles). 3 new holes will twin historic hole locations to confirm suitability of the historic holes for inclusion in the new JORC compliant model.

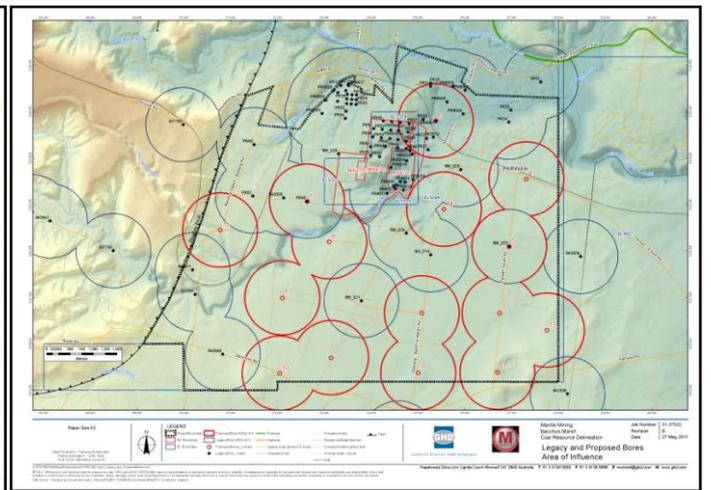
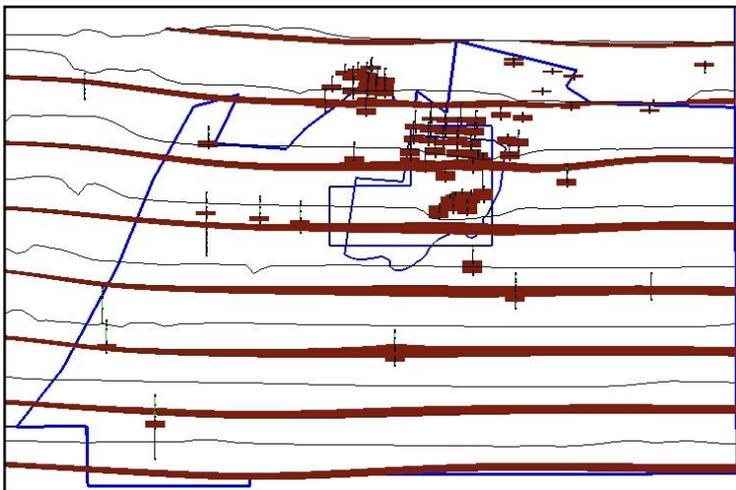


Figure 3: Sections through coal deposit from historic holes.

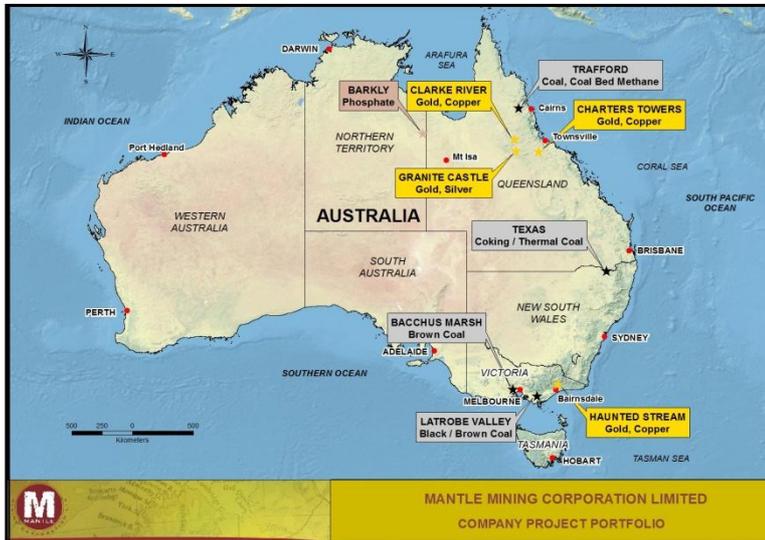
Figure 4: Drill hole layout targeting JORC resource base.

Mantle is targeting an August drill program start, pending approval of requisite work plans.

COMPETENT PERSON STATEMENT:

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Callum Lamont, who is a Member of the Australasian Institute of Mining and Metallurgy. Mr Lamont is a full time employee of the company. Mr Lamont has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Lamont consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

MANTLE MINING CORPORATION LIMITED'S COMPANY PROJECT PORTFOLIO:



- ★ Granite Castle Gold & Silver (QLD)
- ★ Charters Towers Gold & Copper (QLD)
- ★ Haunted Stream Gold & Copper (VIC)
- ★ Clarke River Gold & Copper (QLD)
- ★ Trafford Coal & Coal Bed Methane (QLD)
- ★ Bacchus Marsh Brown Coal (VIC)
- ★ Latrobe Valley Coal (VIC)
- ★ Texas Coal (QLD)
- ☆ Barkly Phosphate (NT)

The Granite Castle Project area contains a JORC Compliant (Measured, Indicated and Inferred) gold and silver Resource¹. Mineralisation occurs in a 600m long portion of a single shear. Over 6km of additional shears have been located, with drill holes and/or rock chip samples at similar grades to the JORC Compliant shear.

The Charters Towers Project area contains the Great Britain JORC Compliant Inferred gold Resource² as well as a number of historic mines, including Day Dawn West, immediately west along strike of Citigold's (ASX: CTO) proposed "City" mining area. The Gromac/Puzzler area is prospective for deposits of copper, gold, silver and molybdenum.

The Haunted Stream Project area is prospective for gold and copper including many historical, high-grade, gold mines along the Haunted Stream fault corridor. Deep drilling at centrally located Anomaly 4, a major target for possible deep vein gold or porphyry copper-gold mineralisation, intersected multiple shear zones with visible base metals.

The Clarke River Project area contains the Phantom Creek tenement which is located along structure from Kagara's (ASX: KZL) Balcooma Copper Project, and the Mt Brown tenement which is prospective for Ben Lomond style uranium deposits and copper gold deposits. Phantom Creek remains virtually unexplored.

The Trafford Project area contains a large Exploration Target³ of black coal. Mantle is negotiating with the traditional custodians of Mt Mulligan towards an Indigenous Land Use Agreement (ILUA) and has commenced proceedings in QLD's Supreme Court to enforce an agreement for assignment of the tenements from the prior tenement holders.

The Bacchus Marsh Project area contains a large Exploration Target⁴ of brown coal surrounding the Maddingley mine. Mantle executed a Pre-JVA with Exergen Pty Ltd to develop the deposit utilising Exergen's patented Continuous Hydro-Thermal Dewatering (CHTD) technology. Exergen's partners include Tata Power, Itochu, Thiess and Sedgman.

The Latrobe Valley Project area is prospective for both black and brown coal deposits including many historical mines within the Gippsland Basin. The tenements immediately abut the main Latrobe Valley depression. There is a high level of prospectivity that the historic Wonthaggi Black coal seams exist at depth within the project area.

The Texas Project area is prospective for both thermal and coking coals of a similar quality to Surat and Bowen Basin coals. The tenements are adjacent to the NSW border and along strike from known coking coal deposits and thermal coal drill intercepts located to the south and north.

The Barkly Project area sits in the Georgina Basin between Minemaker's (ASX: MAK) Wonarah deposit and Phosphate Australia's (ASX: POZ) Highland Plains deposit. Historic phosphate rock intercepts exist within the tenements and Mantle is undertaking a series of annual drilling programs to more closely define the potential for covered deposits.

1, 2, 3 & 4: Mineral Resource and Exploration Target tables and associated Competent Persons Statements on next page.



MINERAL RESOURCES, EXPLORATION TARGETS and COMPETENT PERSONS STATEMENTS:

1. Granite Castle Gold & Silver Project:

Granite Castle Gold and Silver Resource Estimate @ 0.2 g/t Au lower cut-off					
Class	Tonnes	Au g/t	Au oz	Ag g/t	Ag oz
Measured	122,614	3.99	15,727	53.3	209,941
Indicated	264,021	3.44	29,198	67.6	574,182
Inferred	460,443	2.32	34,375	50.4	746,680
Total	847,078	2.91	79,301	56.2	1,530,803

Granite Castle Gold and Silver Exploration Target			
Target	Tonnes	Au g/t	Ag g/t
Below Granite Castle JORC Resource	300,000 – 400,000	2.5 – 3.5	55 - 70
Total	300,000 – 400,000	2.5 – 3.5	55 - 70

Statements in this report relating to the Granite Castle Gold and Silver Mineral Resource are based on a report provided to the Company by Hellman and Schofield Pty Ltd, dated 16th May 2008 and first released to the ASX by Mantle on 28th May 2008: "The information in this report that relates to Mineral Resources is based on information compiled by Dr William Yeo, a full time employee of Hellman and Schofield Pty Ltd. Dr Yeo is a Member of the Australasian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration, and to the activity he is undertaking, to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Dr Yeo consents to the inclusion of the matters based on his information in the form and context in which it appears in this report." The report also covered mineralised structures below the resource and quantified a contained exploration potential (Exploration Target) within those structures. Note that the potential quantity and grade of the Exploration Target is conceptual in nature, that there has been insufficient exploration to define a Mineral Resource, and that it is uncertain if further exploration will result in the determination of a Mineral Resource

2. Charters Towers Gold Project:

Great Britain Gold Resource Estimate @ 0.5 g/t Au lower cut-off				
Class	Tonnes	Au g/t	Au oz	
Inferred	2,128,000	1.8	125,000	
Total	2,128,000	1.8	125,000	

Statements in this report relating to the Great Britain Gold Mineral Resource are based on a report provided to Glengarry Resources Ltd by Resource Evaluations Pty Ltd dated August 2004 and independently confirmed by Ravensgate Minerals Industry Consultants and included in Mantle's 2006 Prospectus as released to the ASX by Mantle on 2nd October 2006. The Resource Evaluations Pty Ltd report was compiled by Mr Mark Drabble, a Member of the Australasian Institute of Mining and Metallurgy and Mr Gerry Fahey, also a Member of the Australasian Institute of Mining and Metallurgy: "This report was completed under the overall supervision and direction of Gerry Fahey and the 3D modelling and Mineral Resource estimation was carried out by Mark Drabble both of whom are Competent Persons as defined by the Australasian Code for the Reporting of Mineral Resources and Ore reserves (JORC Code) 1999 edition and who consent to the inclusion in this report of the matters based on his information in the form and context in which it appears."

3. Trafford Coal Project:

Mount Mulligan Black Coal Exploration Target						
Target	Tonnes	TM %	Ash %	VM %	FC %	CV MJ/kg
Mulligan Sub-basin	100 Million – 500 Million	2 - 3	11 - 18	28 - 34	50 - 70	26 - 28
Total	100 Million – 500 Million	2 – 3	11 - 18	28 - 34	50 - 70	26 - 28

Statements in this report relating to the Mt Mulligan Coal Exploration Target are based on data provided to the Company by the vendors of the project, as first released in a report to the ASX by Mantle on 25th September 2007: "Under the Guidelines for the Estimation and Reporting of Australian Black Coal Deposits (1999), Mount Mulligan had an identified Class 1 deposit of 144m tonnes and an identified Class 2 deposit of 507m tonnes". Upon review of the geological data in consultation with Mantle's consultant geologists, it was considered appropriate that the range of the Exploration Target be considered as 100m to 500m tonnes. Information in this report that relates to Exploration Results is based on information compiled by Mr Ian Kraemer an Executive of Mantle Mining Corporation Ltd. Mr Kraemer is a Fellow of the Australasian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Kraemer consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. In addition, Mr Kraemer notes that the potential quantity and grade of the Black Coal Exploration Target is conceptual in nature, that there has been insufficient exploration to define a Mineral Resource, and that it is uncertain if further exploration will result in the determination of a Mineral Resource.

4. Bacchus Marsh Coal Project:

Bacchus Marsh Brown Coal Exploration Target					
Target	Tonnes	TM %	Ash %		
Parwan Sub-basin	1 Billion – 2 Billion	35 – 61	4 - 11		
Total	1 Billion – 2 Billion	35 – 61	4 - 11		

Statements in this report relating to the Bacchus Marsh Brown Coal Exploration Target are based on preliminary review of existing data and drill hole logs as first released in a report to the ASX by Mantle on 17th June 2010: "Information in this report that relates to Exploration Results is based on information compiled by Mr Ian Kraemer an Executive of Mantle Mining Corporation Ltd. Mr Kraemer is a Fellow of the Australasian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Kraemer consents to the inclusion in the report of the matters based on his information in the form and context in which it appears. In addition, Mr Kraemer notes that the potential quantity and grade of the Brown Coal Exploration Target is conceptual in nature, that there has been insufficient exploration to define a Mineral Resource, and that it is uncertain if further exploration will result in the determination of a Mineral Resource."