



## ASX/MEDIA ANNOUNCEMENT

27 April 2009

### Sienna Coal initial resource defined: 57 million tonnes

#### Key points

- ▷ **Inferred Resource of 57 Mt**
- ▷ **Aggregate seam thickness 8.8 to 10.1 metres**
- ▷ **PCI and thermal quality coal indicated**
- ▷ **Resource covers Sienna North and Sienna South areas only: Sienna Central area also prospective**

Norton Gold Fields Limited (**Norton**) (**ASX code: NGF**) today announced an Inferred Resource (compiled in accordance with the JORC code) of 57 million tonnes of coal for the Sienna North and Sienna South projects. Aggregate seam thicknesses range from 8.8 to 10.1 metres. The projects are located near Middlemount in the Bowen Basin, Queensland.

#### Phase 2 drilling program

The assessment is the result of a Phase 2 drilling program comprising 41 holes for 5,103 metres completed in January 2009. Data from the Phase 1 program comprising 9 holes for 1,572 metres was reported by Norton on 2 July 2008 along with results from earlier drilling and interpretation. The coal is to a depth of 200 metres.

The Phase 2 program targeted shallow sub-outcropping coal in the Rangal Coal Measures. Drilling was on an approximate 250 x 500 metre pattern; each hole was mapped and geophysically logged. Cored holes were sampled for coal quality analysis.

Primary coal seams intersected in the program were the Phillips, Leichhardt and Vermont seams. The Resource estimation for Sienna North and South is detailed in the following tables.

#### Coal Resources for Sienna North Project (EPC 1033)

Coal seam	Cumulative Ply Thickness (m)	Inferred Resource (Mt)
Phillips	2.97	7.49
Leichhardt	3.59	12.5
Vermont	2.21	9.05
<b>Total</b>	<b>8.77</b>	<b>29.05</b>

**Coal Resources for Sienna South Project (EPC 1033)**

Coal seam	Cumulative Ply Thickness (m)	Inferred Resource (Mt)
Phillips	4.68	11.60
Leichhardt	4.02	11.91
Vermont	1.39	4.46
<b>Total</b>	<b>10.09</b>	<b>27.97</b>

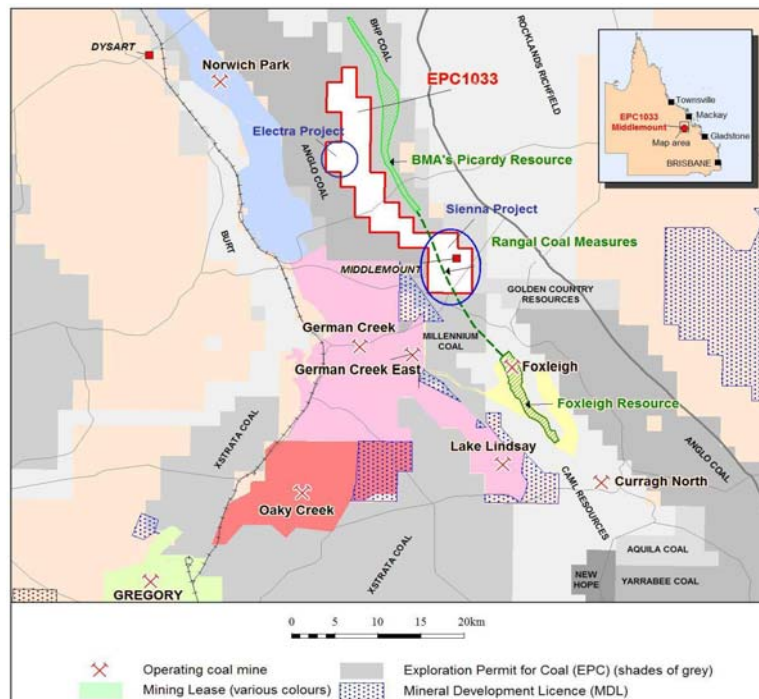
The geological interpretation and JORC based assessment was undertaken by SMGC, an independent mining and geological consultancy experienced in coal resource work.

**Sienna Central area also prospective**

Geological interpretation indicates that coal seams in the Sienna North and South areas are contiguous across the Sienna Central area, and that coal in the Central area has not been 'coked'. Drilling in the Central area is likely to add to the current resource inventory.

**Location**

The Sienna coal deposits are located in the Bowen Basin, and are surrounded by major producers including Macarthur Coal, Curragh, Foxleigh, BHP Coal, German Creek, and Anglo Coal.



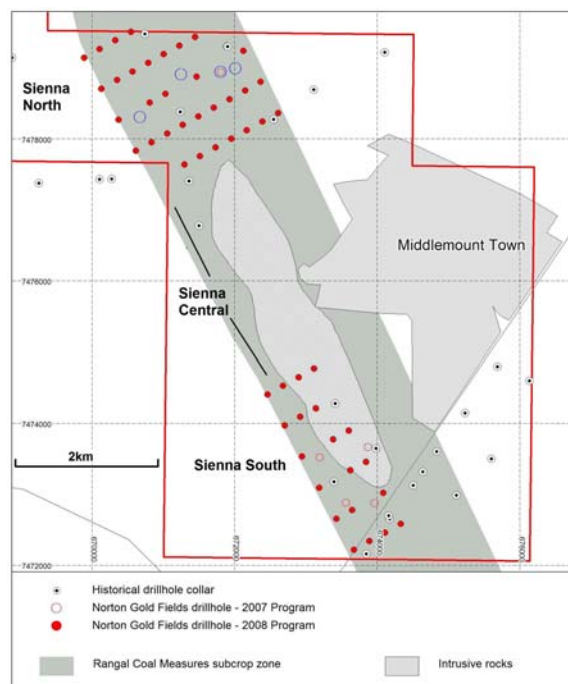
**Sienna and Electra location plan**

### Moving the Sienna coal project up the development curve promptly

The Sienna area is a significant coal resource with potential to be developed into a medium-sized open cut low volatile PCI coal operation.

Norton is preparing a detailed feasibility study for the Sienna coal project. This encompasses a Stage 3 drilling program of around 20 holes to elevate the resource above Inferred status and to define the Sienna Central resource. The mining scoping study previously completed will be revised and upgraded to take into account the new data, current circumstances and more closely define the project.

In moving the project up the development curve, joint venture and other opportunities with interested parties will be considered.



**Sienna drill hole locations**

### Further drilling at Electra planned

Further drilling is also planned at the Electra area in the north. Electra has the potential for high quality coking coal at depths below 300 metres. The target is similar coal to that mined at the nearby Norwich Park Mine.

### About Norton Gold Fields

Norton Gold Fields Limited is one of the largest ASX-listed Australian gold producers. It also has active gold, copper and coal exploration projects.

The Company produces around 150,000 oz of gold per year from its Paddington Gold Mine near Kalgoorlie, Western Australia. Output is expected to increase towards 200,000 oz pa during FY2010 with the development of Homestead underground mine now underway.

Development of the Queensland Mount Morgan Mine Project will add a further 30,000 to 35,000 oz pa gold production and has been approved by the Board subject to suitable funding. Mount Morgan can be in production within twelve months.

Completion of Homestead and Mount Morgan mines will drive total gold production to 230,000 to 250,000 oz pa from late 2010 and diversify production sources.

Visit us at [www.nortongoldfields.com.au](http://www.nortongoldfields.com.au)

### **For further information**

Simon Brodie  
Company Secretary  
+61 (0) 411 558 544

### **Competent Person's Statement**

The estimates of Coal Resources for the Sienna Coal Project presented in this report have been carried out in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code), 2004, prepared by the Joint Ore Reserves Committee of The Australasian Institute of Mining and Metallurgy (AusIMM) and the Australasian Institute of Geoscientists and Minerals Council of Australia, December 2004. The Information in this report that relates to Sienna coal Resources, is based on information reviewed by Mr Harry Seitlinger, who is a Member of The AusIMM and is a full time employee of NSW Geology. Mr Harry Seitlinger has sufficient experience which is relevant to the style 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 JORC Code. Mr Harry Seitlinger consents to the inclusion in the report of the matters based on this information in the form and context in which it appears.