



30 October 2007

ASX Announcement

## **GUM CREEK DRILL RESULTS CONFIRM NICKEL POTENTIAL**

- **Broad zones of elevated nickel intersected in regolith, including;  
32m @ 0.63% Ni & 12m @ 0.68% Ni**
- **Results confirm presence of komatiite units prospective for nickel-sulphide mineralisation**
- **2,300m RC drilling programme scheduled for mid-November.**

Legend Mining Limited ("Legend") (ASX:LEG) today announced encouraging nickel results from the recently completed aircore drilling programme over the Thangoo and Woodley areas of the Gum Creek Project (Figure 1). Results from the drill programme indicate the presence of komatiite units prospective for hosting Ni-sulphide mineralisation.

Legend Managing Director Mark Wilson said "I am encouraged that we now have supporting geochemistry for the favourable geology reported in our September quarterly at such an early stage in exploration. We now have nine strike kilometres within the Thangoo area."

"Follow-up RC drilling has been scheduled for the middle of next month to further evaluate the nickel potential of the area. Now that we have the right rocks the challenge is to find if they contain an ore body." said Mark Wilson.

### **Drill Programme Details & Results**

The programme comprised 137 holes for 7,458m and represents the first drilling by Legend within the Thangoo and Woodley areas (Figure 2). The drilling targeted ultramafic units identified previously by ground reconnaissance and/or interpreted from aeromagnetic data. Seventeen regional traverses with holes spaced at 50m were drilled across six strike kilometres of the interpreted ultramafic units to confirm their komatiitic nature and assess the nickel potential of these units.

Komatiites are ultramafic rocks with low SiO<sub>2</sub>, low K<sub>2</sub>O, low Al<sub>2</sub>O<sub>3</sub>, and high to extremely high MgO which are prospective for Ni-sulphide mineralisation.

Ultramafic rocks with classic spinifex and olivine cumulate textures (and interbedded black shales) were intersected on a number of traverses. This together with high MgO values (>18%) confirm the ultramafics as komatiites. Minor disseminated sulphide hosted by komatiite was also observed in several holes at Thangoo.



Drilling intersected broad zones of elevated nickel closely associated with high chromium values, summarised in Table 1, (Figure 2). These results provide encouragement for the possible presence of nickel mineralisation at depth or along strike.

**Table 1: Aircore Drill Results >0.5% Ni**

Hole	Easting	Northing	From	To	Int	Ni %	Cr %	Cu %	Co %
LGCA072	739700	6969900	16	60	44	0.51	1.11	0.001	0.022
Incl.			24	36	12	0.68	1.31	0.001	0.040
LGCA073	739750	6969900	24	28	4	0.53	0.05	0.020	0.059
LGCA079	739400	6970600	8	41 Eoh	33	0.52	1.25	0.006	0.035
LGCA114	740950	6965600	12	67 Eoh	55	0.51	0.75	0.006	0.055
LGCA117	741100	6965600	12	32	20	0.53	1.09	0.005	0.042
LGCA121	741300	6965600	24	56	32	0.63	0.71	0.007	0.067

All aircore holes inclined -60<sup>o</sup> deg to 270<sup>o</sup>, co-ordinates GDA\_94 Zone 50.  
 Samples collected by scoop and composited over 4m intervals.  
 Nickel (Ni), Chromium (Cr), Copper (Cu) & Cobalt (Co) assayed by XRF at Ultra Trace Pty Ltd, Perth.

A bottom-of-hole sample was taken from each drill hole and analysed for a multi-element rock suite to provide a geochemical signature. MgO values >18% were returned from eleven samples confirming their komatiitic nature. This is encouraging given that the bottom-of-hole samples were not completely fresh, and it is likely that numerous other samples would return MgO values >18% in fresh rock.

### Next Phases of Work

A 2,300 RC drilling programme is planned for mid November to follow-up the results of the aircore drilling.

Ground electromagnetic surveying over the prospective komatiite units is envisaged for early 2008.

### Background

Legend currently hold interests in three Projects in WA, namely Gum Creek, Pilbara and Mt Gibson. Of these, Legend operates and is actively exploring the Gum Creek and Pilbara Projects, while Oxiana Limited (ASX:OXR) manages the Mt Gibson JV.

The Gum Creek Project (nickel-copper-platinum group element) is located 640km northeast of Perth in the Yilgarn Province. It is considered prospective for both intrusion-related (Cu-Ni-PGE) and komatiite flow-related Ni-sulphide mineralisation.



The Pilbara Project (nickel-copper, zinc-copper) comprises 724km<sup>2</sup> of tenure in the West Pilbara, all within 50km of Karratha. Legend and Fox Resources Limited (ASX:FXR) independently control a dominant portion of this emerging and exciting base metal district. Legend has already identified eleven priority base metal drill targets.

The Mt Gibson Project (zinc-copper-gold), located 290km northeast of Perth in the Murchison Province, was recently farmed-out to Oxiana, who operate the world class VHMS base metal mine at Golden Grove situated 100km to the north. Oxiana has committed to spend a minimum of \$1.2M in the first 18 months and to spend \$10M over a seven year period to earn a 75% interest in the Project.

Visit [www.legendmining.com.au](http://www.legendmining.com.au) for further information and announcements.

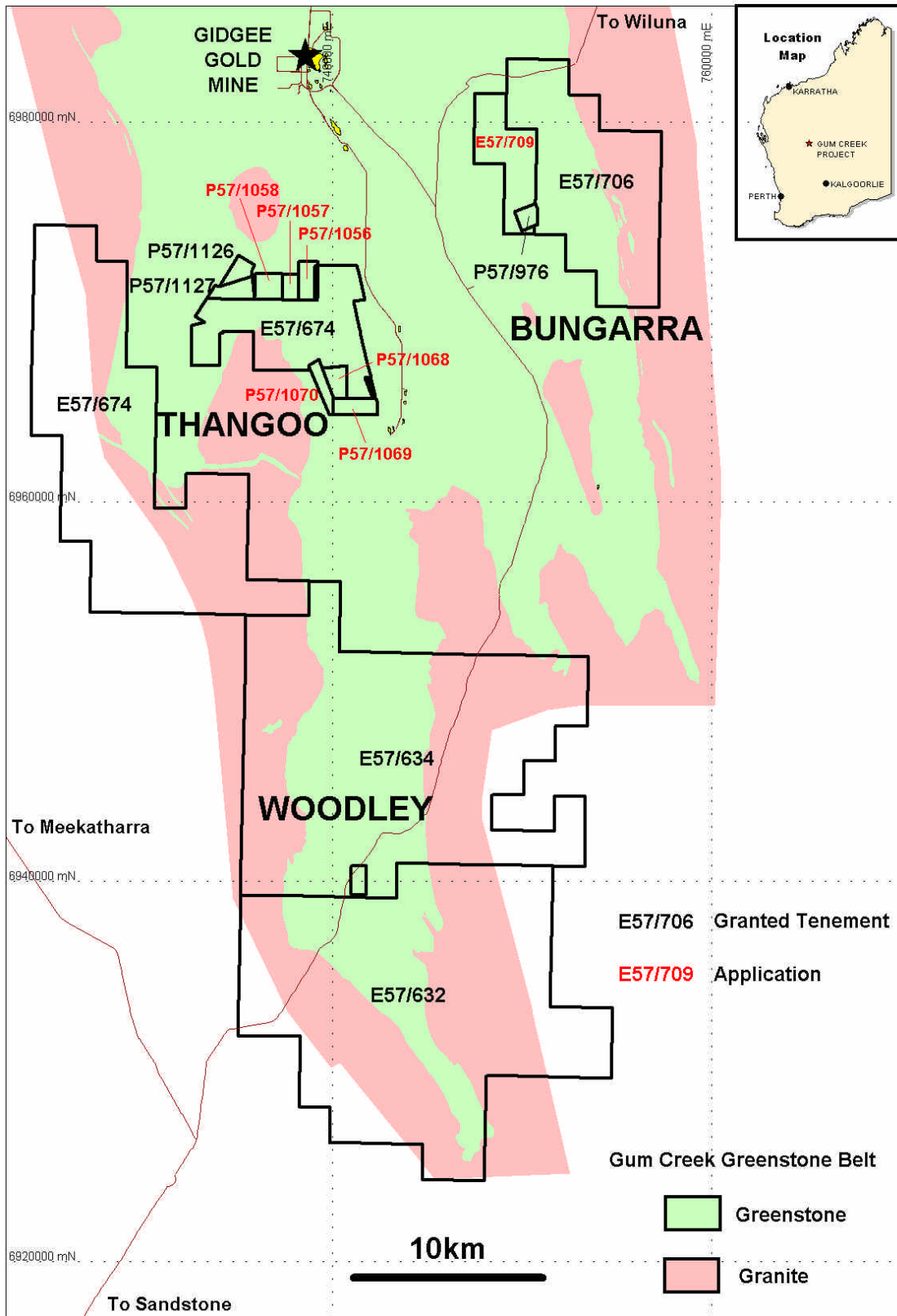
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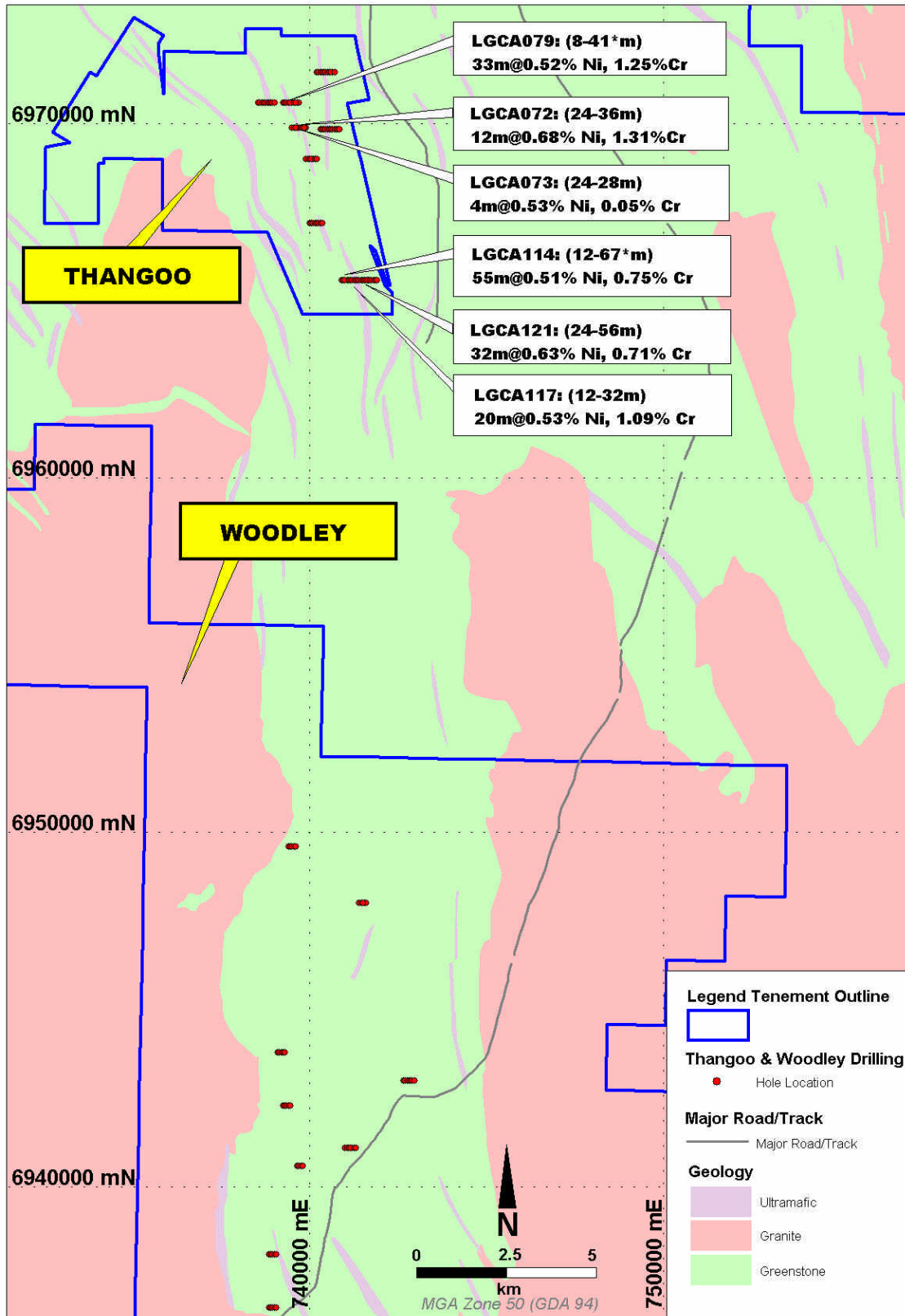
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*The information in this announcement that relates to Exploration Results has been reviewed by Mr Derek Waterfield, a Member of the Australian Institute of Geoscientists and a full time employee of Legend Mining Limited. Mr Waterfield has sufficient relevant experience in the styles of mineralisation and types of deposit under consideration, and in the activity he is undertaking, to qualify as a Competent Person as defined in the 2004 Edition of the "Australian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (the JORC Code), and consents to the inclusion of the information in the form and context in which it appears.*



**Figure 1: Gum Creek Project - Tenement Location Plan and Simplified Geology**



**Figure 2: Gum Creek Project – Aircore Drill Hole Locations with >0.5% Nickel Results**