



## Houston Lake Completes Core-Logging and Sampling of the Phase 2 Drill Program on the Angel Hill Gold Zone, Assay Results Pending

December 15, 2004: Sudbury, Ontario - Houston Lake Mining Inc. (TSX.V: **HLM**, the "Company") is pleased to announce that core-logging and sampling of the 7 hole, 701m (2300ft.) Phase 2 drill program has now been completed on the Company's 100% owned, 635.6 hectare (1569.8 acre) West Cedartree Gold Project. The project is located near Sioux Narrows, Ontario, Canada. A second batch of 123 drill core samples is currently being shipped to ALS Chemex Laboratories of North Vancouver, B.C. Assay results from a total of 212 drill samples are expected in January.

### Angel Hill Gold Zone ("AHGZ")

The AHGZ is a package of altered rocks that occurs within a large gabbro sill. The zone occurs at the contact of ultramafic rocks forming the footwall with the gabbroic rocks of the hanging wall. Higher gold values (up to 115.5 g/t or 3.369 oz/t Au) are associated with discontinuous quartz lenses and pods which tend to be more prolific in wider portions of the zone. The AHGZ can be traced by geophysics for a distance of 2.1km (1.5miles) on the property to encompass gold-in-soil anomalies and a gold occurrence along its strike extension.

Last year, Houston Lake conducted stripping and washing, systematic channel sampling, and detailed mapping over a 130m (426 ft.) segment of the AHGZ. The AHGZ was directly tested by 77 systematic channel samples which ranged from trace to 71.30 g/t Au (2.080 oz/t) and had a weighted average of 4.04 g/t Au (0.118 oz/t). This Fall, an additional selective channel samples of newly identified quartz lenses returned a weighted average of 32.23 g/t Au (0.940 oz/t) in the southern portions of the stripped area.

A 20 hole, 1139m (3736 ft.) diamond drilling program was completed in February, 2004. The February Phase 1 drill program tested the AHGZ every 20m (66 ft.) along a strike length of 120m at depths of 10, 25 and 40m (33, 82 and 131 ft.). Drill holes 8 to 14 were drilled at 65 degrees while all others of the Phase 1 program were drilled at 45 degrees in a westward direction to intersect the AHGZ perpendicular to geologic strike. The gold zone appears to dip to the east at approximately 70 degrees. Twelve of the 18 holes drilled under the 130m (426ft.) stripped area returned significant gold values and 5 of these holes intersected grades higher than 1 oz/t Au. The AHGZ remains open to depth and along strike to the south.

The Phase 2 drill program seeks to extend the AHGZ to depth below the previous systematic drilling completed last winter. Six drill holes (#21-#26) were drilled every 20m (66 ft.) along strike. All six drill holes successfully intersected the gold zone at an approximate depth of 60m (200 ft.). Table 1 illustrates changes in the estimated true width of the altered rocks of AHGZ with depth. While the gold zone shows considerable variation in width along strike at each depth, it is clear that the AHGZ is widening with depth. A total of 212 drill core samples will be fire assayed utilizing a 50 gram charge.

Table 1. Changes in the Estimated True Width of the Angel Hill Gold Zone with Depth.

<u>Drill Hole</u>	<u>Intercept Depth</u>	<u>Variation in True Width</u>	<u>Average True Width</u>	<u>Intercept Depth</u>	<u>Variation in True Width</u>	<u>Average True Width</u>
15-20	10m	11.28-23.97m	15.98m	32.80 ft.	37.00-78.62 ft.	52.41 ft.
1-7	25m	7.88-18.40m	13.18m	82.00 ft.	25.85-60.35 ft.	43.23 ft.
8-14	40m	9.67-20.61m	15.85m	131.20 ft.	31.72-67.60 ft.	52.00 ft.
21-26	60m	15.68-23.55m	19.25m	196.80 ft.	51.43-77.24 ft.	63.14 ft.

### **McLennan Gold Zone (“MGZ”)**

The MGZ is located several hundred metres west of and is oriented subparallel to the AHGZ. The gold zone occurs near the northerly-striking contact of mafic volcanics with a large gabbro sill. MGZ appears to be different in character from the AHGZ. The zone is 3 to 4.5m (9.8 to 14.8 ft.) wide, is highly silicified and carbonatized, and carries 5-10% disseminated sulphides. The MGZ is traced by geophysics for a distance of 2.6km (1.6miles) on the property.

The MGZ is marked by a series of overgrown pits, trenches and drill collars which were completed in the 1940’s. Assessment files indicate that additional work was carried out in the early 1980’s. “Drilling carried out by Noranda Mines in 1944-45 encountered significant gold-bearing intersections over a strike length of 280m. (918 ft.). Typical intersections along the shear zone and off shoot shears are: 0.20 oz/t Au over 1.2 ft., 0.53 oz/t Au over 18.0 ft., 0.25 oz/t Au over 3.0 ft., 0.55 oz/t Au over 1.5 ft., 1.35 oz/t Au over 3.5 ft.” (Dr. K. Germundsen, P. Geo., Internal Company Report, 2002).

The seventh drill hole of the Phase 2 drill program targeted and successfully intersected the MGZ in the vicinity of trenches 2 and 3. A highly carbonatized and silicified red to pink coloured breccia with disseminated sulphides was encountered over a core length of 2.37m (7.77 ft.). This capped by a 2.18m (7.16 ft.) sulphide (pyrite-chalcocopyrite) stringer zone.

Independent Consulting Geologist Dean R. Cutting, P. Geo. is the Qualified Person for the project and has reviewed this press release.

### **About Houston Lake Mining Inc.**

Houston Lake Mining Inc. is an exploration company listed on The TSX Venture Exchange under the symbol HLM. We are focused on the exploration and development of opportunities in the strategic and high technology metals sector which have excellent supply/demand fundamentals. Houston Lake is actively exploring for Gold, Platinum Group Metals and Rare Metals with a strategic focus on northwestern Ontario. The Company has a total of 18,278,198 common shares issued and outstanding. For further information, we invite you to visit us at [www.houstonlakemining.com](http://www.houstonlakemining.com).

### **Company Contacts:**

Lindsay Malcolm  
Investor Relations  
1-877-713-7465 (toll-free)  
[Lmalcolm@houstonlakemining.com](mailto:Lmalcolm@houstonlakemining.com)

E. Grayme Anthony B.Sc., P. Geo., F.G.A.C., M. B. A.  
Tel: (705) 897-7622  
Fax: (705) 897-7618  
[ganthony@houstonlakemining.com](mailto:ganthony@houstonlakemining.com)

*The TSX Venture Exchange has neither approved nor disapproved of the information contained herein.*