



For Immediate Release

## Due Diligence Uncovers New High Grade Gold Drill Intersection at Houston Lake Mining Inc.'s Angel Hill

**February 22, 2005:** Sudbury, Ontario - Houston Lake Mining Inc. (TSX.V: **HLM**, the "Company") reports on results from 35 check samples analyzed by fire assay at TSL Laboratories of Saskatoon, Saskatchewan. The samples were selected from the recently completed Phase 2 diamond drilling and Fall channel sampling programs conducted over the Angel Hill Gold Zone ("AHGZ") on the Company's 100% owned, 635.6 hectare (1569.8 acre) West Cedartree Gold Project. The project is accessible by gravel road and is located near Sioux Narrows, Ontario, Canada.

The original samples had been sent to ALS Chemex Laboratories of Thunder Bay, Ontario for fire assay analysis. As part of our due diligence, Houston Lake sent 35 of these samples to TSL to audit the ALS Chemex assay results. The TSL check assay results have identified a new high grade intersection of 139 g/t over 0.15m (4.054 oz/t gold over 0.49ft., Sample B038107 from Drill Hole 24). An investigation carried out by ALS Chemex Laboratories on the original drill core samples has confirmed this high grade intercept as 126 g/t over 0.15m (3.675 oz/t gold over 0.49ft.) within a wider intersection of 5.00m grading 4.141g/t (16.40ft. of 0.121 oz/t gold). The following table reflects the updated ALS Chemex findings:

Table 1. Drill Hole Results (ALS Chemex) for Holes 21 to 27 on the West Cedartree Gold Project

Hole No.	Drill Hole Location	From	To	Intercept (m.)	Gold (g/t Au)	Intercept (ft.)	Gold (oz/t Au)
21	60m (197ft) N	71.72m	72.10m	0.38m	0.165	1.25ft.	0.005
22	40m (131ft) N	77.46m	78.15m	0.69m	2.130	2.26ft.	0.062
23	20m (66ft) N	64.47m	65.32m	0.85m	2.590	2.79ft.	0.076
24	0m (0ft) N	<b>76.55m</b>	<b>81.55m</b>	<b>5.00m</b>	<b>4.141</b>	<b>16.40ft.</b>	<b>0.121</b>
	Incl.	<b>76.55m</b>	<b>78.70m</b>	<b>2.15m</b>	<b>9.244</b>	<b>7.05ft.</b>	<b>0.270</b>
	Incl.	<b>76.55m</b>	<b>76.70m</b>	<b>0.15m</b>	<b>126.000</b>	<b>0.49ft.</b>	<b>3.675</b>
25	20m (66ft) S	74.50m	79.15m	4.65m	5.895	15.25ft.	0.172
	Incl.	74.50m	76.35m	1.85m	11.975	6.07ft.	0.349
	Incl.	75.10m	75.65m	0.55m	23.300	1.80ft.	0.680
26	40m (131ft) S	75.60m	76.30m	0.70m	1.480	2.30ft.	0.043
27	McLennan Zone	23.95m	29.00m	5.05m	5.736	16.56ft.	0.167
	Incl.	24.45m	26.82m	2.37m	10.433	7.77ft.	0.304
	Incl.	26.00m	26.50m	0.50m	31.500	1.64ft.	0.919

The 35 samples analyzed at TSL ranged from trace to 139g/t (4.054 oz/t gold) and averaged 12.735 g/t (0.371 oz/t gold). These results compare favourably with the 35 updated ALS Chemex assay results which ranged from trace to 126g/t (3.675 oz/t gold) and averaged 13.147g/t (0.383 oz/t gold). For a more thorough discussion of Houston Lake's sample verification procedures and findings see the section entitled Sample Verification Program.

Houston Lake President and C.E.O., E. Grayme Anthony, P. Geo. stated: “The Company has, as a matter of policy, taken the extra due diligence step of testing results at a second laboratory after every exploration program. This vigilant approach has paid off handsomely with the discovery of a new high grade drill intersection in the recently completed delineation drill program at Angel Hill. We are deeply indebted to TSL Labs for their high quality work in delivering reliable check assay results. We admire the thoroughness of ALS Chemex’s investigation in validating this result.”

“With the confirmation of results from two quality laboratories the Phase 2 drill program can now be considered a great success. Not only has the gold zone expanded with depth but we have intersected some of our highest gold values yet. The first drill test of the McLennan Zone has also produced promising initial results. With less than 1% of the potential of the Angel Hill Zone investigated to date we look forward to building upon our string of exploration successes on the West Cedartree Gold Project. ”

## **Phase 2 Drill Program**

The recently completed 7 hole, 701m (2300ft.) Phase 2 drill program was designed to test the AHGZ at a depth of 60m (197ft.). A total of 212 samples were analyzed by standard fire assay analysis at ALS Chemex Laboratories of North Vancouver, B. C. The assay results varied from trace to 126 g/t Au (3.675 oz/t gold). Five of the seven NQ-2 sized drill holes returned significant results (>2 g/t Au). Drill hole 25 returned the best intercept of 5.895 g/t Au over 4.65m (0.172 oz/t over 15.25ft.) from the AHGZ. Drill hole 27 is the first bore hole targeted by Houston Lake on the historic McLennan Gold Zone. This hole intersected 5.05m grading 5.736 g/t Au (16.56ft. of 0.167 oz/t ).

In 2003 Houston Lake conducted stripping and washing, systematic channel sampling, and detailed mapping programs 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, ten additional selective channel samples tested newly identified quartz lenses in the southern portions of the stripped area. The results ranged in value from 1.18 to 115.50 g/t Au (0.034 to 3.369 oz/t gold) and had a weighted average of 32.23 g/t Au (0.940 oz/t).

A total of 1733m (5684 ft.) of diamond drilling in 26 holes has been completed to date on the AHGZ. The gold zone has been tested every 20m (66 ft.) along a strike length of 120m (394ft.) at depths of 10, 25, 40 and 60m (33, 82, 131 and 197ft.). All bore holes were drilled 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. Sixteen of the 24 holes drilled under the 130m (426ft.) stripped area have now returned significant gold values (>2 g/t Au) and 6 of these holes intersected grades higher than 1 oz/t gold. The gold zone remains open to depth. 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 strike.

## **Exploration Plans**

A comprehensive report of all prior and the recently completed exploration programs is currently being compiled. Results of approximately 850 surface channel and drill core samples will be combined into the upcoming resource estimate of a 130m long, 60m deep (426ft. by 197ft.) portion of the AHGZ.

The AHGZ has been traced southward in outcrop for a total distance of 225m (738ft.). A surface exploration program of washing, stripping, channel sampling and detailed mapping is recommended to expose the AHGZ for an additional 100m (328ft.) southward along strike. A 1000m (3280ft.) diamond drill program would then systematically test the strike extension to depth utilizing a similar methodology as the previous drill programs.

The McLennan Gold Zone (“MGZ”) is located 300m (984ft.) west of and is oriented subparallel to the AHGZ. The MGZ is traced by geophysics for a distance of 2.6km (1.6 miles) on the property. An IP geophysical survey is recommended to target the gold zone along strike and to depth. A surface exploration program of washing, stripping, channel sampling and detailed mapping is also recommended to

expose the MGZ in the vicinity of old trenches and pits and future targets generated by the proposed IP survey. A diamond drill program would be devised to test the MGZ.

### **Sample Verification Program**

As a matter of policy Houston Lake follows rigorous security and quality control procedures in its exploration programs. All samples from the West Cedartree Gold Project are sealed and kept under lock and key under the control of the Company's independent Qualified Person until shipment by bonded carrier to the ALS Chemex sample preparation lab in Thunder Bay. All samples are analyzed by fire assay utilizing the larger 50 gram charge to improve the overall representability of the analyzed sample. Internal laboratory controls and blanks monitor the laboratory process.

Approximately 15% of the samples submitted to ALS Chemex Laboratories are selected for follow up testing after every exploration program. The samples are chosen to test the full range of reported assay values. Some of the higher grade samples are also included for confirmation purposes. Coarse reject samples are utilized as these samples have been the least processed by the first laboratory. These coarse rejects are sent directly from ALS Chemex to TSL Laboratories of Saskatoon, Saskatchewan for fire assay utilizing a 50 gram charge.

Houston Lake has also conducted extensive pulp metallic sieve analyses of Angel Hill gold samples at TSL. Up to 2Kg of material from each sample was involved in these analyses. The pulp metallic tests indicate that the Angel Hill gold mineralization is generally free milling, even distributed, and concentrated as fine grains that pass a -200 mesh sieve. All the ALS Chemex sample results previously checked by the TSL pulp metallic and fire assay tests were found to be repeatable. As a result of these procedures the Company has a high degree of confidence in the assay values reported to date.

Sample B038107 was originally reported with a value of 0.525 g/t Au by ALS Chemex. TSL Labs reported a metallic pulp value of 139 g/t Au from the analysis of the reject sample. Because of the understanding gained from thorough geological and gravimetric studies of the gold zone Houston Lake could dismiss nugget effect and smearing of coarse gold grains during the pulverization process as an explanation for this discrepancy. Thirteen sample numbers including B038107 were selected by Houston Lake from the 35 samples checked at TSL to be retested by ALS Chemex. ALS Chemex identified B038107 as an improperly digested sample owing to the presence of an extremely large amount of Au in the sample. ALS Chemex also reran 38 other samples from the same batch and was able to verify all other numbers. Houston Lake is now satisfied that the assay results have been validated.

Independent Consulting Geologist Dean R. Cutting, P. Geo. is the Qualified Person for the project as defined under National Instrument 43-101 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 18,375,197 common shares issued and outstanding. For additional information, we invite you to visit us at [www.houstonlakemining.com](http://www.houstonlakemining.com).

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