

ASX RELEASE

21 January 2010

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P4Q

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12.4M

## Further High Grade Drill Intercepts at Tengrela Gold Project - Ivory Coast

### HIGHLIGHTS

- Drill intercepts support previously reported high grade results within core zone of the Sissingue prospect.
- Recent results include **26m at 19.5g/t Au and 94m at 4.0g/t Au.**
- The intercepts follow significant results announced on 14 September 2009, 16 November 2009 and 5 January 2010.

Perseus Mining Limited (ASX: PRU) is pleased to announce further significant RC and diamond drill results from the Sissingue prospect at its Tengrela Gold Project in Ivory Coast.

Recent intercepts include:

- SLC 045- **26m at 19.5g/t Au** from 24m down hole, including **2m at 232.9g/t Au** from 42m down hole and another intercept of **18m at 4.9g/t Au** from 62m;
- SLC 074- **Open ended 94m at 4.0g/t Au** from 46m down hole, including **28m at 9.1g/t Au** from 68m down; and
- SLC 048- **Open ended 47m at 3.4g/t Au** from 34m down hole, including **2m at 39g/t Au** from 60m.

The intercepts summarised in Table 1 were predominantly from infill drilling. The results give additional support to high grade intercepts previously reported from within the Sissingue prospect's core zone. High grades are typically associated with narrow quartz stringers containing abundant visible gold in altered felsic and granitic intrusives and metasediments.

### Managing Director, Mark Calderwood's comments

"Infill drilling is well advanced and resource modelling for the definitive feasibility study ("DFS") is scheduled to be completed in April 2010, with the DFS completed in 2010.

"From late February onwards extensional and exploration drilling will again become the main focus at Tengrela. During the December Quarter the Company completed 24,000m of drilling at Tengrela and it is targeting 125,000m of drilling in 2010, mostly within the first three quarters."

## Background

The 876sq km Tengrela Gold Project is located immediately south of the 6.8Moz Syama and Finkalo projects, along the same structural/stratigraphic corridor within the Syama-Boundiali greenstone belt. The project lies 150km SSE of the Morila gold mine (7Moz) and 65km WNW of the Tongon deposit (4.3Moz).

The Sissingue prospect has a strike length of at least 5km and is up to 800m wide. Gold mineralisation at Sissingue is associated with veined, altered and sulphidised felsic intrusive bodies comprising 1 to 10m wide porphyry dykes and a granitic intrusive body 300m long and up to 100m wide. The highest grades are located within quartz stringer veining within the felsic and granitic bodies themselves, whilst adjacent meta-greywackes may host lower grades.

The mineralisation at Sissingue has been particularly amenable to gravity-leach testwork with high gravity recovery (~65%) and combined gravity-leach recovery of about 95%. The unusually high gravity recovery is due to the abundant coarse gold within the quartz veining.



Mark Calderwood  
Managing Director

To discuss any aspect of this announcement, please contact:

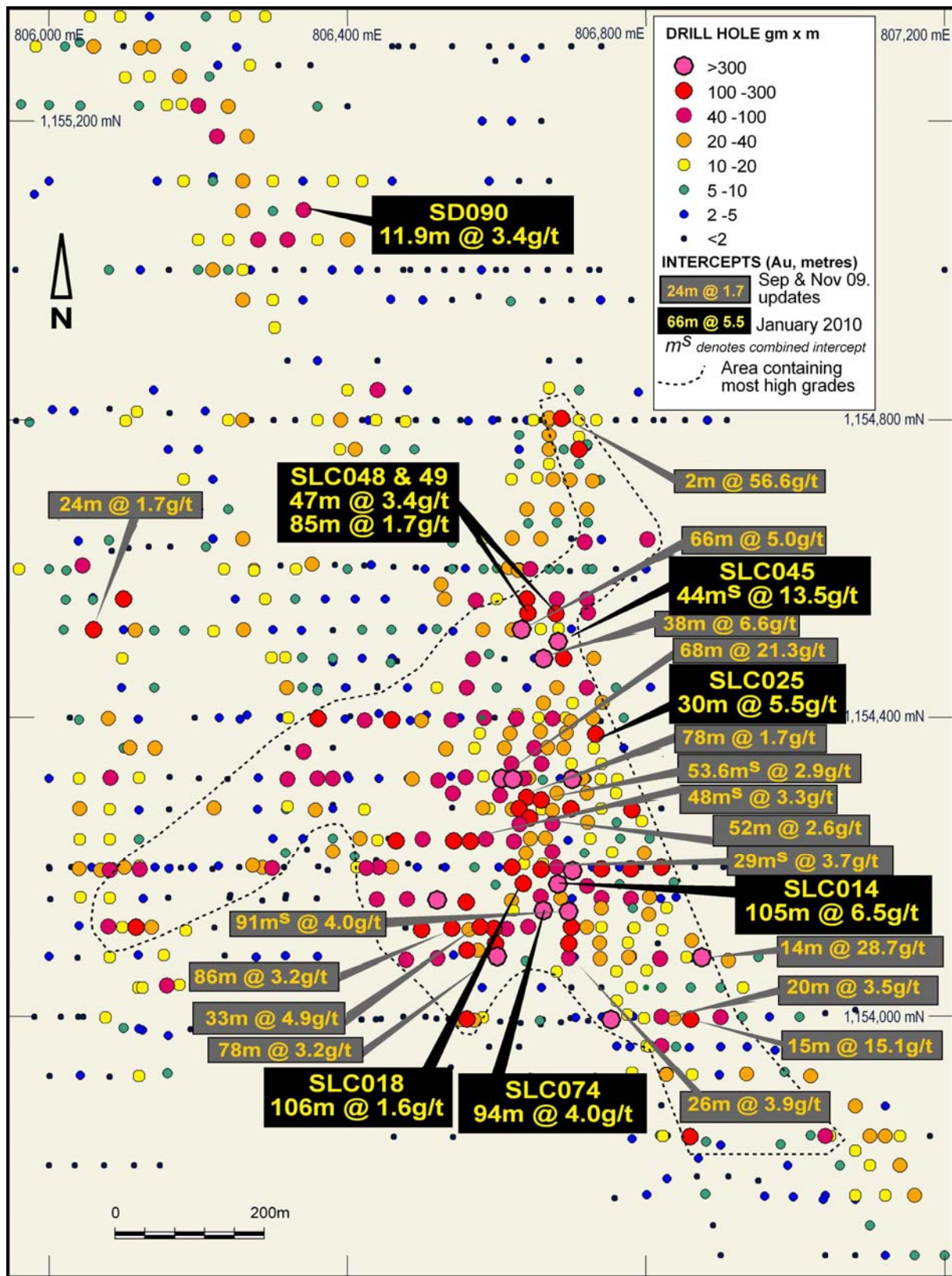
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*The information in this report that relates to exploration results is based on information compiled by Mr Mark Calderwood, who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Calderwood is a Director and full-time employee of the Company. Mr Calderwood 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 Calderwood consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.*

*Statements regarding the Company's plans with respect to its mineral properties are forward-looking statements. There can be no assurance that the plans for development of the Company's mineral properties will proceed as currently expected. There can also be no assurance that any mineralisation will prove to be economic or that a mine will successfully be developed on any of the Company's mineral properties.*

**Figure 1: Location of Recent Significant Drill Intercepts – Sissingue Prospect**



**Table 1: Significant Recent RC and Diamond Drill Intercepts – Sissingué**

| Hole   | East<br>(m) | North<br>(m) | Depth<br>(m) | Azm.<br>(°) | Incl.<br>(°) | From<br>(m) | To<br>(m) | Width<br>(m) | Au<br>g/t    |
|--------|-------------|--------------|--------------|-------------|--------------|-------------|-----------|--------------|--------------|
| SLD090 | 806340      | 1155040      | 179.1        | 270         | -57          | 90.1        | 102       | 11.9         | 3.4          |
| SLC034 | 806620      | 1154420      | 80           | 270         | -55          | 22          | 28        | 6            | 4.0          |
| SLC036 | 806540      | 1154460      | 81           | 270         | -55          | 42          | 50        | 8            | 1.7          |
| SLC037 | 806580      | 1154420      | 80           | 270         | -55          | 60          | 66        | 6            | 3.2          |
| SLC041 | 806740      | 1154460      | 80           | 270         | -55          | 48          | 58        | 10           | 1.6          |
| SLC042 | 806700      | 1154460      | 80           | 270         | -55          | 6           | 10        | 4            | 1.4          |
|        |             |              |              |             |              | 42          | 56        | 14           | 1.5          |
|        |             |              |              |             |              | 70          | 76        | 6            | 1.2          |
| SLC043 | 806660      | 1154460      | 81           | 270         | -55          | 4           | 8         | 4            | 1.5          |
|        |             |              |              |             |              | 26          | 32        | 6            | 1.7          |
| SLC044 | 806640      | 1154500      | 81           | 270         | -55          | 50          | 52        | 2            | 2.6          |
| SLC045 | 806680      | 1154500      | 81           | 270         | -55          | 24          | 50        | 26           | <b>19.5</b>  |
|        |             |              |              |             | <i>incl.</i> | 42          | 44        | 2            | <b>232.9</b> |
|        |             |              |              |             | <i>incl.</i> | 62          | 80        | 18           | 4.9          |
|        |             |              |              |             |              | 66          | 70        | 4            | <b>10.0</b>  |
| SLC046 | 806720      | 1154500      | 80           | 270         | -55          | 62          | 80*       | 18           | 1.4          |
| SLC047 | 806720      | 1154540      | 80           | 270         | -55          | 64          | 74        | 10           | 4.5          |
|        |             |              |              |             | <i>incl.</i> | 66          | 70        | 4            | <b>10.3</b>  |
| SLC048 | 806680      | 1154540      | 81           | 270         | -55          | 34          | 81*       | 47           | 3.4          |
|        |             |              |              |             | <i>incl.</i> | 60          | 62        | 2            | <b>39.0</b>  |
| SLC049 | 806640      | 1154540      | 87           | 270         | -55          | 2           | 87*       | 85           | 1.7          |
| SLC050 | 806720      | 1154580      | 81           | 270         | -55          | 72          | 78        | 6            | 2.7          |
| SLC051 | 806680      | 1154580      | 93           | 270         | -55          | 18          | 93*       | 75           | 1.2          |
| SLC052 | 806640      | 1154580      | 80           | 270         | -55          | 48          | 56        | 8            | 1.1          |
|        |             |              |              |             |              | 62          | 68        | 6            | 1.4          |
| SLC054 | 806680      | 1154620      | 81           | 270         | -55          | 32          | 40        | 8            | 2.1          |
| SLC055 | 806680      | 1154640      | 81           | 270         | -55          | 44          | 70        | 26           | 1.0          |
| SLC061 | 806680      | 1154700      | 86           | 270         | -55          | 46          | 56        | 10           | 1.4          |
| SLC063 | 806580      | 1154340      | 80           | 270         | -55          | 28          | 34        | 6            | 3.1          |
| SLC066 | 806600      | 1154220      | 80           | 270         | -55          | 48          | 54        | 6            | 1.9          |
| SLC067 | 806825      | 1154145      | 81           | 270         | -55          | 62          | 72        | 10           | 1.0          |
| SLC069 | 806800      | 1154060      | 82           | 270         | -55          | 66          | 78        | 12           | 1.1          |
| SLC070 | 806760      | 1154060      | 80           | 270         | -55          | 18          | 28        | 10           | 1.7          |
| SLC072 | 806740      | 1154145      | 80           | 270         | -55          | 44          | 48        | 4            | 1.8          |
|        |             |              |              |             |              | 60          | 74        | 14           | 1.3          |
| SLC074 | 806660      | 1154140      | 140          | 270         | -55          | 20          | 28        | 8            | 1.2          |
|        |             |              |              |             |              | 46          | 140*      | 94           | 4.0          |
|        |             |              |              |             | <i>incl.</i> | 68          | 96        | 28           | 9.1          |
|        |             |              |              |             | <i>incl.</i> | 68          | 70        | 2            | <b>18.3</b>  |
|        |             |              |              |             | <i>and</i>   | 82          | 84        | 2            | <b>45.0</b>  |
|        |             |              |              |             | <i>and</i>   | 90          | 92        | 2            | <b>11.3</b>  |
| SLC075 | 806620      | 1154140      | 81           | 270         | -55          | 50          | 62        | 12           | 1.1          |
| SLC081 | 806800      | 1153980      | 81           | 270         | -55          | 22          | 38        | 16           | 1.5          |
| SRC745 | 806400      | 1154800      | 60           | 270         | -55          | 8           | 24        | 16           | 2.1          |
| SRC747 | 806300      | 1154920      | 82           | 270         | -55          | 72          | 82*       | 10           | 1.5          |

**Notes**

SD denotes core holes.

SLC and SRC denote RC holes.

RC holes samples sampled at 1m intervals and composited to 2m intervals.

Core holes sampled at 1m intervals.

Oxide samples or low sulphur fresh rock samples analysed using 50g fire assays.

High sulphide content samples analysed using 25g fire assays.

Only holes with combined intercepts of greater than 10 gram metres included.

\* denotes open ended intercept.