

## NEWS RELEASE

### LUCA INTERSECTS HIGH-GRADE GOLD AT REFORMA, INCLUDING 13 METRES OF 11.4 GRAMS PER TONNE GOLD EQUIVALENT

**Vancouver, B.C., October 16, 2025: Luca Mining Corp.** (“Luca” or the “Company”) (TSX-V: LUCA; OTCQX: LUCMF; Frankfurt: Z68) is pleased to report analytical results from four additional surface drillholes at the Reforma deposit and two underground drillholes at the Campo Morado polymetallic VMS mine in Guerrero State, Mexico.

- Luca continues to identify high-grade gold and silver intercepts from the Reforma Deposit as the drilling program targets expansion of the existing Mineral Resource
- Surface drillholes CMRF-25-08 through CMRF-25-11 were all collared within the Reforma Deposit, and intersected notable intervals of massive sulphide mineralization
- Surface drillhole CMRF-25-10 **intercepts 13.0 metres (“m”) of 11.4 g/t AuEq\*\*** (4.96 g/t gold, 237.09 g/t silver, 0.66% copper, 3.00% zinc and 1.30% lead), including **3.7m of 21.3 g/t AuEq** (8.19 g/t gold, 578.08 g/t silver, 0.48% copper, 5.60% zinc and 2.83% lead)
- Surface drillhole CMRF-25-11 intercepts **24.6 m of 6.0 g/t AuEq\*\*** (2.25 g/t gold, 74.54 g/t silver, 0.86% copper, 2.39% zinc and 0.49% lead), including **11.6m of 8.6 g/t AuEq** (3.45 g/t gold, 113.29 g/t silver, 0.94% copper, 3.65% zinc and 0.83% lead)
- Underground drillhole CMUG-25-023 returns assays including 2.6 m of 1.84 g/t gold, 103.76 g/t silver, 2.02% copper, 0.07% zinc and 0.13% lead from an unmined area within 20 metres of current underground workings
- Based on strong results, Luca has increased the surface drill program at Campo Morado by 120%, with the 2025 surface drill budget now totalling 5,500 metres of drilling. The underground drill program has been expanded 50% and will now total 7,500 metres of drilling in 2025. Drilling from both surface and underground continues.

#### Surface Drill Program

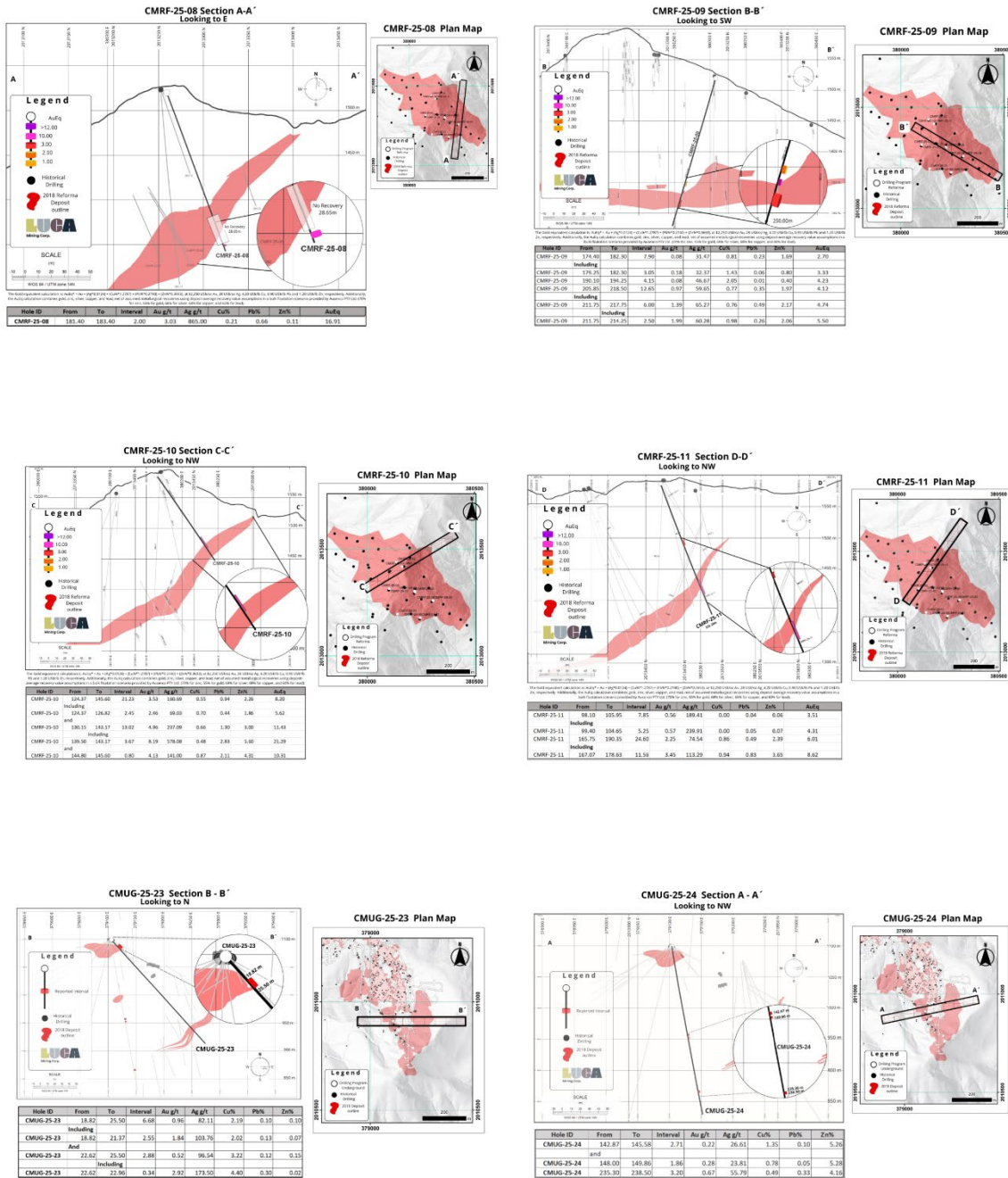
Surface drilling at Reforma continues to confirm the size, tenor and grade of precious and base metals historically reported within the deposit, as well as better define the deposit and test the expansion potential of the Reforma massive sulphide mineralization. Each hole intercepted massive sulphide where expected and on average over greater widths and higher grades than the geological model predicted (See Table 1 and Figures 1 to 6).

The ongoing surface drill program is designed to confirm and expand the existing mineral resources at both the Reforma and El Rey deposits, which both display elevated precious metals grades relative to the other deposits at Campo Morado. The program is also designed to collect material from these zones for additional metallurgical test work focused on increasing precious metals recoveries at the project.

In addition, Luca also plans to drill untested exploration targets nearby to Reforma and El Rey, none of which has ever been drill tested. Thirty-eight (38) priority targets have been identified from assessment of the substantive historical exploration database of Campo Morado and ranked, based on coincident favourable geological, geochemical and geophysical interpretations.

A total of 4,060m of surface drilling has been completed at the Reforma Deposit from 16 surface drillholes with "HQ" and/or "PQ" sized diamond drill core. The surface exploration program has now shifted to the El Rey deposit, with two holes completed.

Figures 1 to 6



## Underground Drill Program

Underground drillholes CMUG-25-23 and CMUG-25-24 confirmed mineralization within a previously undrilled section of the C-108 Zone and returned higher grade gold and copper located approximately 20m from existing mine workings. This area defined by this drillhole will be the focus of follow-up exploration efforts as the C-108 Zone comes into the Campo Morado Mine plan in 2026.

The underground drilling program at Campo Morado is targeted to advance the definition of mineable resources near existing mine working as well as testing new zones interpreted to host extensions of known mineralization based on the Property’s extensive historical drilling database. To date, 27 underground diamond drillholes have been completed in 2025 totaling over 5,700 metres with “HQ” and/or “NQ” sized diamond drill core.

Paul D. Gray, Luca’s VP of Exploration, commented, *“Luca continues to successfully delineate and expand the precious metals rich Reforma Deposit with our surface exploration drill program. In addition, with drilling from underground we have defined new mineralized areas in close proximity to current mining operations. Based on the drilling success achieved to date, both of our 2025 surface and underground drill programs have been significantly expanded. This is a transformative period for the Company as Luca begins to unlock the property-wide, gold-rich VMS potential of the Campo Morado Property.”*

Table 1: Highlighted Diamond Drill Assay Results from UG Drillholes CMUG-25-23 through CMUG-25-24 and Surface Drillholes CMRF-25-08 through CMRF-25-11.

Hole ID	From	To	Interval	Au g/t	Ag g/t	Cu%	Pb%	Zn%	AuEq g/t	Core Recovery %***
CMUG-25-023	18.8	25.5	6.7	0.96	82.11	2.19	0.10	0.10	-	>90
	Including 18.8	21.4	2.6	1.84	103.76	2.02	0.13	0.07	-	>90
	and 22.6	25.5	2.9	0.52	96.54	3.22	0.12	0.15	-	>90
	Including 22.6	23.0	0.3	2.92	173.50	4.40	0.30	0.02	-	>90
CMUG-25-024	142.9	145.6	2.7	0.22	26.61	1.35	0.10	5.26	-	>90
	and 148.0	149.9	1.9	0.28	23.81	0.78	0.05	5.28	-	>90
	235.3	238.5	3.2	0.67	55.79	0.49	0.33	4.16	-	>90
CMRF-25-08	181.4	183.4	2.0	3.03	865.00	0.21	0.66	0.11	16.91	39
CMRF-25-09	174.4	182.3	7.9	0.08	31.47	0.81	0.23	1.69	2.70	100
	Including 179.3	182.3	3.1	0.18	32.37	1.43	0.06	0.80	3.33	100
	190.1	194.3	4.2	0.08	46.67	2.05	0.01	0.40	4.23	100
	205.9	218.5	12.7	0.97	59.65	0.77	0.35	1.97	4.12	89
	Including									

	211.8 Including 211.8	217.8 214.3	6.0 <b>2.5</b>	1.39 <b>1.99</b>	65.27 <b>60.28</b>	0.76 <b>0.98</b>	0.49 <b>0.26</b>	2.17 <b>2.06</b>	4.74 <b>5.50</b>	100 100
CMRF-25-10	124.4 Including	145.6	<b>21.2</b>	<b>3.53</b>	<b>160.69</b>	<b>0.55</b>	<b>0.94</b>	<b>2.26</b>	<b>8.20</b>	98
	124.4 and	126.8	2.5	2.46	69.03	0.70	0.44	1.86	5.62	96
	130.2 Including	143.2	<b>13.0</b>	<b>4.96</b>	<b>237.09</b>	<b>0.66</b>	<b>1.30</b>	<b>3.00</b>	<b>11.43</b>	99
	139.5 and	143.2	<b>3.7</b>	<b>8.19</b>	<b>578.08</b>	<b>0.48</b>	<b>2.83</b>	<b>5.60</b>	<b>21.29</b>	100
	144.8	145.6	0.8	4.13	141.00	0.87	2.11	4.31	10.31	97
CMRF-25-11	98.1 Including	106.0	7.9	0.56	189.41	0.00	0.04	0.06	3.51	100
	99.4	104.7	5.3	0.57	239.91	0.00	0.05	0.07	4.31	100
	165.8 Including	190.4	<b>24.6</b>	<b>2.25</b>	<b>74.54</b>	<b>0.86</b>	<b>0.49</b>	<b>2.39</b>	<b>6.01</b>	100
	167.1	178.6	<b>11.6</b>	<b>3.45</b>	<b>113.29</b>	<b>0.94</b>	<b>0.83</b>	<b>3.65</b>	<b>8.62</b>	100

\*True widths are estimated to be >90% of drilled intervals.

\*\* The Gold equivalent calculation is:  $AuEq = Au + (Ag * 0.0124) + (Cu * 1.2787) + (Pb * 0.2740) + (Zn * 0.3653)$ , at \$2,250 US\$/oz Au, 28 US\$/oz Ag, 4.20 US\$/lb Cu, 0.90 US\$/lb Pb and 1.20 US\$/lb Zn, respectively. Additionally, the AuEq calculation combines gold, zinc, silver, copper, and lead, net of assumed metallurgical recoveries using deposit-average recovery value assumptions in a bulk floatation scenario provided by Ausenco PTY Ltd. (70% for zinc, 55% for gold, 68% for silver, 68% for copper, and 60% for lead).

\*\*\* Core recovery at Reforma was an issue historically reported at Reforma and has continued to be a technical drilling challenge in 2025 drilling.

Table 2: Underground and Surface Drill Collar Details for Released Results

Hole ID	UTM WGS84 Z14		Elevation (m)	Azimuth	Dip	Final Depth (m)
	Eastings	Northing				
CMUG-25-23	379106	2010912	1,099	088	-48	251
CMUG-25-24	379104	2010912	1,099	087	-81	274
CMRF-25-08	380307	2013259	1,519	005	-69	188
CMRF-25-09	380305	2013258	1,519	300	-73	250
CMRF-25-10	380163	2013419	1,587	060	-55	169
CMRF-25-11	380163	2013419	1,587	032	-70	225

### Analytical Method and Quality Assurance/Quality Control Measures

All drill core splits reported in this news release were analysed by Bureau Veritas of Durango, Mexico, utilizing the Multi-Acid digestion ICP-ES 35-element MA300 analytical package with FA-430 30-gram Fire Assay with AAS finish for gold on all samples. Au over-limits from FA-430 are re-analyzed by FA530 30-gram Fire Assay with Gravimetric finish. Ag over-limits from ICP MA300 analytical package are re-analyzed by FA530 30-gram Fire Assay with Gravimetric finish. Similarly, Cu, Pb and Zn over-limits from ICP MA300 analytical package are re-analyzed by ICP Multi-Acid digestion MA370 package. All core samples were split by core saw on-site at Luca's core processing facilities at the Campo Morado Mine. Once split, half were placed back in the core boxes with the other half of split samples sealed in poly bags with one part of a

three-part sample tag inserted within. Samples were collected by Bureau Veritas at the Campo Morado Mine site and transported to their laboratory in Durango, where they were prepared into 250-gram pulps for gold fire assay. The pulps were then shipped to Bureau Veritas's Analytical laboratory in Vancouver, B.C., for final ICP analysis. A robust system of standards, 1/4 core duplicates and blanks was implemented in the 2025 exploration drilling program and is monitored as chemical assay data become.

#### **Qualified Person**

The technical information contained in this news release has been reviewed and approved by Mr. Paul D. Gray, P.Geo., Vice-President Exploration at Luca Mining. Mr. Gray is a Qualified Person for the Company as defined by National Instrument 43-101.

#### **About Luca Mining Corp.**

Luca Mining Corp. (TSX-V: LUCA, OTCQX: LUCMF, Frankfurt: Z68) is a Canadian mining company with two wholly owned mines located in the prolific Sierra Madre mineralized belt in Mexico. These mines produce gold, copper, zinc, silver, and lead and generate strong cash flow. Both mines have considerable development and resource upside as well as world-class exploration potential.

The Company's Campo Morado Mine hosts VMS-style, polymetallic mineralization within a large land package comprising 121 square kilometres. It is an underground operation, producing zinc, copper, gold, silver and lead. The mine is located in Guerrero State.

The Tahuehueto Mine is a large property of over 100 square kilometres in Durango State. The project hosts epithermal gold and silver vein-style mineralization. Tahuehueto is a newly constructed underground mining operation producing primarily gold and silver. The Company has successfully commissioned its mill and is now in commercial production.

#### **On Behalf of the Board of Directors**

(signed) "Dan Barnholden"

#### **Dan Barnholden, Chief Executive Officer**

#### **Contact Information:**

**Sophia Shane**

**Director of Investor Relations**

sshane@lucamining.com

+1 604 306 6867

**Glen Sandwell**

**Corporate Communications Manager**

ir@lucamining.com

For more information, please visit: [www.lucamining.com](http://www.lucamining.com)

#### **Cautionary Note Regarding Forward-Looking Statements**

Statements contained in this news release that are not historical facts are "forward-looking information" or "forward-looking statements" (collectively, "Forward-Looking Information") within the meaning of applicable Canadian securities laws. Forward Looking Information includes, but is not limited to, estimated production guidelines for 2025 and other possible events, conditions or performance that are based on assumptions about the proposed exploration program and its anticipated results; the timing and costs of future activities on the Company's properties, such as production rates and increases and sustaining

capital expenditures; success of exploration, development, and metres to be drilled in exploration on the Tahuehueto Mine site and the Campo Morado Mine site. In certain cases, Forward-Looking Information can be identified using words and phrases such as “plans”, “expects”, “scheduled”, “estimates”, “forecasts”, “intends”, “anticipates” or variations of such words and phrases. In preparing the Forward-Looking Information in this news release, the Company has applied several material assumptions, including, but not limited to, that the Company will be able to raise additional capital as necessary; the current exploration, development, environmental and other objectives concerning the Tahuehueto Mine can be achieved; that consistent and sustainable mill feed at Campo Morado Mine will be achieved; the continuity of the price of gold and other metals and economic and political conditions. Forward-Looking Information involves known and unknown risks, uncertainties and other factors which may cause the actual results, performance, or achievements of the Company to be materially different from any future results, performance or achievements expressed or implied by the Forward-Looking Information. There can be no assurance that Forward-Looking Information will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on Forward-Looking Information. Except as required by law, the Company does not assume any obligation to release publicly any revisions to Forward-Looking Information contained in this news release to reflect events or circumstances after the date hereof or to reflect the occurrence of unanticipated events.

Neither TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this release.