



# Media Release

## **Silver Spruce mobilizes geological team and collars first hole of 2,000 metre R/C drill program on the Pillado and La Prieta Au-Ag-Pb-Zn-Cu targets at Diamante project, Sonora, Mexico**

**June 21, 2022 - Bedford, NS - (TSXV:SSE)** - Silver Spruce Resources Inc. ("Silver Spruce" or the "Company"), with its partner Colibri Resources Corp. ("Colibri"), announces that the Company has mobilized its Hermosillo-based team of geologists and support personnel to the Diamante project, and collared the first hole of its 2,000 metre R/C program at the Pillado Au-Ag-Pb-Zn-Cu target (Figure 1).

“We are pleased to begin our maiden exploration drilling program on several highly prospective areas of Diamante. Our first two targets, Pillado and La Prieta, exhibit multiple vein, breccia, disseminated and manto-style mineralization, locally with fault controls parallel to and intersecting high grade polymetallic, silver-gold and base metal-bearing occurrences with historical artisanal mining. Importantly, despite the number and quality of known mineralization targets, there is no recorded historical drilling on Diamante to date,” stated Greg Davison, Silver Spruce Vice-President Exploration and Director.



*Figure 1. Reverse circulation drill rig collared on pad #40 north of artisanal underground workings at the Pillado drill target, first DDH on the Diamante 1 concession.*

Mr. Davison added, “TRAX equipment and personnel have conducted activities for two weeks on the Pillado and La Prieta targets, under the direction of our exploration point team, to clear access routes and prepare the requisite drill pads. Minera Drilling mobilized from Hermosillo to

site on June 15<sup>th</sup> and currently are collared on Pillado pad #40 located north of the portal. The initial three holes at this location will target the E-W trending, northerly-dipping mineralization. Six additional holes are proposed at Pillado and another eight holes at La Prieta, all of which are oriented to intersect depth projections of known surface and shallow underground mineralization. The program is anticipated to continue for four to five weeks through mid-July 2022. Samples will be screened using pXRF analyses during the on-site logging to provide rapid qualitative data for dynamic decision-making on drill hole planning and depth targeting. Sample shipments to ALS Global in Hermosillo will be delivered on a weekly basis.”

The drill-ready Diamante gold-silver (Au-Ag) property (“Diamante” or the Property”) is located 5 km northwest of the town of Tepoca, and 165 km southeast of the capital city of Hermosillo, eastern Sonora, Mexico.

Constructora Trax (“TRAX”) and Minera Drilling, both from Hermosillo, Mexico, respectively, were contracted for the preparation of access trails and pads, and drilling 2,000 metres of reverse circulation drill holes on the principal drilling target areas of the Diamante 1 and 2 concessions, specifically on the first-priority targets at Pillado (see Figures 1, 2 and 3) and La Prieta (Figure 4) with Calton, Aguaje, El Chon-El Chon Oeste and Mezquite Raizudo next in line.

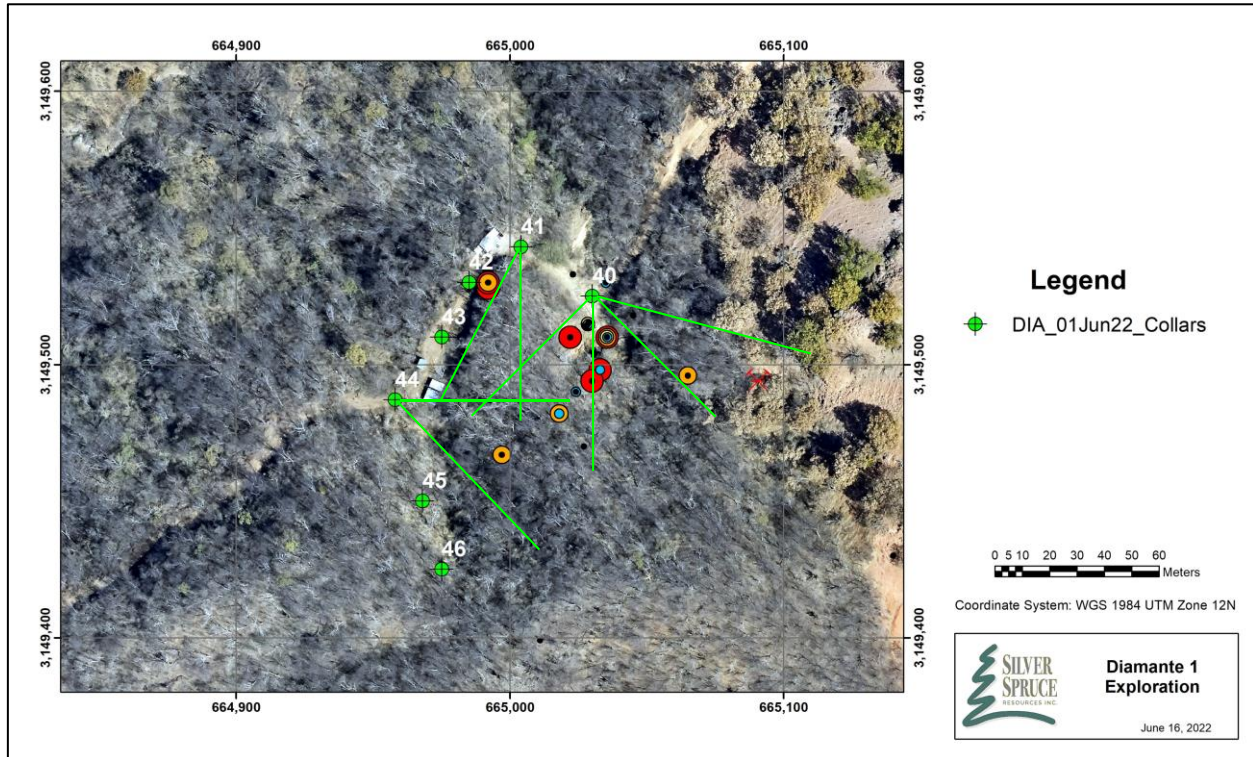


Figure 2. Orthophoto of Pillado showing pads #40 - #46 with trace projections for initial group of drill holes. Adit located on north-facing exposure south of pad #40 at center. N-NE and E-W-trending targets exhibit polymetallic Au-Ag-Cu-Pb-Zn mineralization with intense alteration, and intersect 25 metres west of the portal. Anomalous multi-element geochemical values shown in graduated symbols. 1:1,000 scale.

Our recent geological mapping programs conducted over multiple targets reported Au values to 51.5 g/t from silicified breccias in the Calton target (see Press Release of April 27, 2022), the highest Au grade yet reported from Diamante, and Ag values >1,000 g/t were recorded from base metal sulphide-bearing veins at Pillado, El Chon and El Cumbro accompanied by high-grade

primary and supergene Pb+Zn+Cu up to a combined grade of 50.9 wt.% from grab and channel sampling at surface and within historical trenches and artisanal workings.

Specifically, geochemical results from surface and underground sampling of eight target areas reported precious metals (Au to 51.5 g/t, Ag to 2,270 g/t), base metals (Pb to 42.3 wt.%, Zn to 22.9 wt.% and Cu to 3.2 wt.%) and pathfinders each exhibited weak to highly anomalous values commonly with high Ag;Au and low to high Pb:Zn. Elevated Cu, Cd, Sb, Hg, As and Bi are linked commonly to Pb and/or Zn.



*Figure 3. Intense wallrock alteration and primary sulphide to secondary oxide mineralization exposed 20 metres south of pad #40 at the entry to workings at the Pillado drill target.*



*Figure 4. TRAX preparing pad #8 to the north above portal to workings at the La Prieta drill target.*

Our recent target mapping program reported assays consistent with historical surface and U/G channel samples reported up to 39.8 g/t Au, 3,460 g/t Ag, 18.2% Pb, 33.5% Zn and 1.47% Cu

(see Press Releases of April 12, 2021, and January 24, 2022). Most drill targets are polymetallic vein style with precious metal-dominant targets also identified at Calton, El Chon and Aguaje. Metal zoning or pulses of mineralization may be indicated at each of these three locations.

### **Project Geology**

The Property is located within the west-central portion of the Sierra Madre Occidental Volcanic Complex within the northwest-trending “Sonora Gold Belt” of northern Mexico. Diamante offers strong precious metal tenor with a polymetallic endowment, multiple quality targets, styles of mineralization, of particular significance for our exploration moving forward, no records of drilling. Historical exploration and artisanal activities are indicated by surface trenches and subsurface workings parallel to and cutting the vein mineralization were measured up to 100 metres in length, with the latter showing shafts and short lateral drifts.

Geological features of epithermal Au, low to intermediate sulphidation Ag-Au (Pb-Zn), high sulphidation Au-Cu, and potential porphyry style Au-Cu occur as disseminated, stockwork and vein styles. Silicification with sericitic, argillic and propylitic alteration were accompanied by drusy to vuggy quartz, black tourmaline, multiple disseminated to vein sulphides with incipient to pervasive oxidation to carbonates, sulphates such as jarosite, hematite and iron hydroxide. Recent exploration verified pathfinder elements including As, Sb, Hg, Cd and Bi.

Mineralization is reported visually as pyrite, arsenopyrite, chalcopyrite, sphalerite, argentiferous galena, argentite, hematite and probable metal oxides, carbonates and sulphates, including copper carbonate (malachite), copper sulphates and plumbogjarosite.

Structural lineaments show intersecting and splaying vein patterns with steep to moderately dipping northwest, northeast and north-striking orientations were confirmed and spatially coincident with parallel to oblique faults and shears which control and locally offset the mineralization.

### **Project Background**

Silver Spruce can acquire up to 50% interest in four Diamante concessions with a cumulative land position of 1,057 hectares (see Press Release of April 29, 2021).

The Property is well situated in terms of logistics for exploration and is easily accessible from Mexican Highway #16 which transects Diamante 1 and along several trails and dry river beds southward to Diamante 2.

Mining and exploration in the surrounding area is very active with adjacent and nearby properties held by Alamos Gold, Argonaut, Agnico Eagle, Evrim, Newmont, Garibaldi, Kootenay Silver and Penoles among others.

### **Geochemical Analysis, Quality Assurance and Quality Control**

Drilling samples (¼ splits) will be delivered by the Project Geologist from the Property to the ALS sample preparation facility in Hermosillo, Sonora, Mexico. The remaining ¼ and ½ splits will be stored at Colibri’s facilities in Suaqui Grande, south of Tecoripa, Sonora.

ALS Global in North Vancouver, British Columbia, Canada, is a facility certified as ISO 9001:2008 and accredited to ISO/IEC 17025:2005 from the Standards Council of Canada. Local

chain of custody will be monitored and maintained by the Project Geologist under the direction of the QP.

The samples will be crushed to 70% passing 2mm (PREP-31) and a split of up to 250 grams pulverized to 85% passing 75 micrometres (-200 mesh). The sample pulps and crushed splits will be transferred internally to ALS Global's North Vancouver, Canada or Lima, Peru analytical facility for gold and multi-element analysis.

Pulps (50gram split) will be submitted for Au analysis by Fire Assay with Atomic Absorption finish (Au-AA24). The retained pulps also will be analysed by Four Acid Digestion followed by Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) multi-element analyses (ME-ICP61m) with Hg by Aqua Regia and ICP-MS (Hg-MS42).

Over-limit Au and Ag samples will be analyzed by Fire Assay with Gravimetric Finish Ore Grade (Au-GRA21 or Au-GRA22, Ag-GRA21). Overlimit base metals will analyzed by Four Acid Digestion followed by Ore Grade Inductively Coupled Plasma Atomic Emission Spectrometry (ICP-AES) for Cu, Pb and Zn (Cu-OG62, Pb-OG62, Zn-OG62). High grade samples above the range of the Ore Grade OG62 analysis will be digested, as above, and analyzed using Titration (e.g., Pb-Vol70).

In-house quality control samples will be inserted into the sample set by the Project Geologist. ALS Global conducts its own internal QA/QC program of blanks, standards and duplicates, and the results are provided with the Company sample certificates. The results of the internal and ALS control samples will be reviewed by the Company's QP and evaluated for acceptable tolerances prior to disclosure.

All sample and pulp rejects will be stored at ALS Global pending full review of the analytical data, and future selection of pulps for independent third-party check analyses, as requisite.

All metal values disclosed herein by Silver Spruce are reported from grab and channel samples which may not be representative of the metal grades.

The Company's Qualified Person believes that the sampling documentation, analytical protocols and quantitative data will withstand scrutiny for inclusion.

### **About Minera Drilling**

Minera Drilling, offering reverse circulation and diamond drilling, has its drilling equipment and technical team based in Hermosillo, Sonora, Mexico.

### **About Constructora Trax**

TRAX offers a comprehensive, high-level response for civil engineering, construction and development in the states of Sonora, Sinaloa, Chihuahua, Zacatecas, Guerrero among others. TRAX has extensive project experience since 1990 specializing in earthworks, demolition, explosives, drilling and blasting, mineral exploitation in both underground and open pit mines, feasibility analysis of mining projects and a wide range of infrastructure projects.

### **Qualified Person**

Greg Davison, PGeo, Silver Spruce VP Exploration and Director, is the Company's internal Qualified Person for the Diamante Project and is responsible for approval of the technical

content of this press release within the meaning of National Instrument 43-101 Standards of Disclosure for Mineral Projects ("NI 43-101"), under TSX guidelines.

### **About Silver Spruce Resources Inc.**

Silver Spruce Resources Inc. is a Canadian junior exploration company which has signed Definitive Agreements to acquire 100% of the Melchett Lake Zn-Au-Ag project in northern Ontario, and with Colibri Resource Corp. in Sonora, Mexico, to acquire 50% interest in Yaque Minerales S.A de C.V. holding the El Mezquite Au project, and up to 50% interest in Colibri's Diamante Au-Ag project. Silver Spruce recently signed a 50:50 joint venture agreement with Colibri on the Jackie Au project. Silver Spruce signed a Definitive Agreement to acquire 100% interest in the Mystery Au project in the Exploits Subzone Gold Belt, Newfoundland and Labrador. The Company signed an Agreement to earn 100% interest in the Pino de Plata Ag project in western Chihuahua, Mexico. Silver Spruce Resources Inc. continues to investigate opportunities that Management has identified or that have been presented to the Company for consideration.

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#### *Notice Regarding Forward-Looking Statements*

*This news release contains "forward-looking statements," Statements in this press release which are not purely historical are forward-looking statements and include any statements regarding beliefs, plans, expectations or intentions regarding the future, including but not limited to, statements regarding the private placement.*

*Actual results could differ from those projected in any forward-looking statements due to numerous factors. Such factors include, among others, the inherent uncertainties associated with mineral exploration and difficulties associated with obtaining financing on acceptable terms. We are not in control of metals prices and these could vary to make development uneconomic. These forward-looking statements are made as of the date of this news release, and we assume no obligation to update the forward-looking statements, or to update the reasons why actual results could differ from those projected in the forward-looking statements. Although we believe that the beliefs, plans, expectations and intentions contained in this press release are reasonable, there can be no assurance that such beliefs, plans, expectations or intentions will prove to be accurate.*