

# PORTFOLIO OF **ADVANCED PROJECTS**

---

## Gold



Ministerio de Economía  
**Argentina**

Secretaría de Minería

## AUTORIDADES

**Presidencia de la Nación**  
Dr. Abg. Alberto Fernández

**Ministerio de Economía**  
Abg. Sergio Tomás Massa

**Secretaría de Minería**  
Abg. María Fernanda Ávila

**Subsecretaría de Desarrollo Minero**  
Dra. Pamela Morales

**Dirección Nacional de Promoción y Economía Minera**  
Lic. Jorge Matías González

**Dirección de Economía Minera**  
Geol. Marina Corvalán

**Dirección de Transparencia e Información Minera**  
Lic. Gonzalo Luis Fernández



## DISCLAIMER

The purpose of this Argentine Government publication is to disseminate third-party information on the exploratory results of advanced projects and the country's geological mining potential.

The information was obtained through different sources, mainly from public access websites of the operating/controlling companies and from technical reports published by them in different web pages under international standards in order to guarantee a higher degree of reliability.

In some cases, the data are estimated. The SECRETARIAT OF MINING is not responsible for their accuracy or reliability.

For further information on the legal, social and/or environmental status of the projects, interested parties should consult the corresponding provincial authorities, since mines are property of the Nation or of the Provinces, depending on the territory in which they are located (according to Articles 124 and 75 paragraph 12 of the NATIONAL CONSTITUTION, and Article 7 and concordant articles of the NATIONAL MINING CODE, approved by Law No. 1919).

The SECRETARIAT OF MINING is not responsible for the improper use of this information.





# ADVANCED GOLD PROJECTS



## CAPEX

2,872.8e M USD\*

2

## CONSTRUCTION

1 - LAMA  
2 - SUYAI

1

## FEASIBILITY (FS)

3 - TAGUAS



## RESERVES

56.4 M oz Au

23

## ADVANCED EXPLORATION

4 - ALTOS DEL CURA  
5 - CALCATREAU  
6 - CERRO PEÑÓN  
7 - CLAUDIA  
8 - CONSERRAT  
9 - DEL CARMEN  
10 - DON JULIO  
11 - DON SIXTO  
12 - EL DORADO MONSERRAT  
13 - ESCONDIDO  
14 - HUALILÁN

15 - JAGÜELITO  
16 - LA JOSEFINA  
17 - LA MANCHURIA  
18 - LAS CALANDRIAS  
19 - LAS OPENAS  
20 - LEJANO  
21 - MANANTIALES  
22 - SAN ROQUE  
23 - TEBENQUICHO CHICO  
24 - VALLE ANCHO  
25 - ZANCARRON



## 2022 PRODUCTION

1.37 Moz

\* Mt: millions of tons- Moz: million of ounces kt: thousands of tons- koz: thousand of ounces - M USD: Million of dollars.  
\*This CAPEX estimated number includes projects in different stages of progress that are not described in this portfolio.





Au

LAMA

1

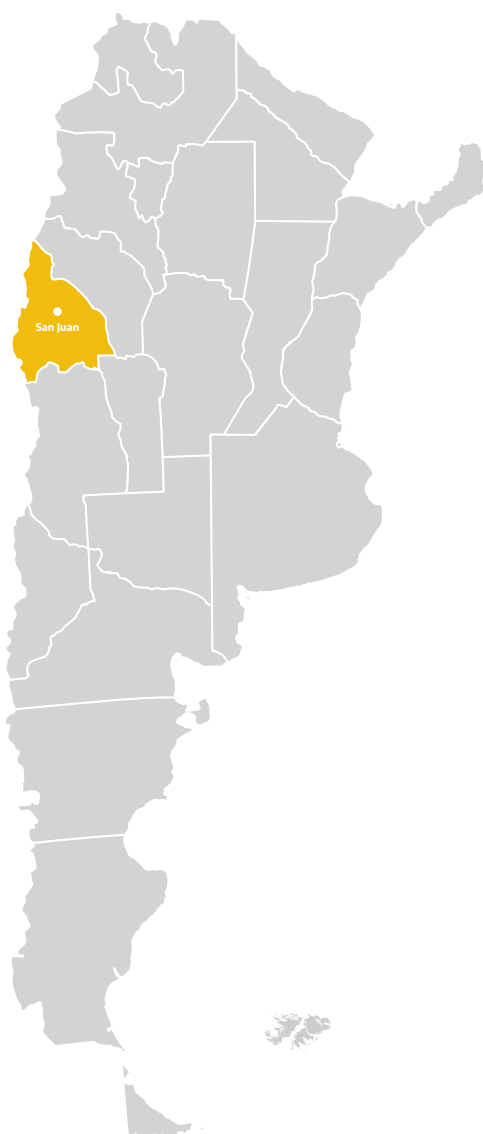


Ministerio de Economía  
**Argentina**

Secretaría de Minería

Au

LAMA

**LOCATION**

(29° 19' 45" Lat. S; 69° 59' 33" Long. W)

Located at more than 4,000 meters above sea level on the border between Chile and Argentina. The property is accessed through a 360-kilometer gravel road from the City of San Juan, capital of the homonymous province, using the same route that provides access to the Veladero mine.

**MINERALIZATION TYPE**

High Sulphidation Epithermal Style  
(Au-Ag)

**PROPERTY DATA  
OWNER / CONTROLLER**

Barrick Gold Corp.

**OPERATOR**

Barrick Exploraciones Argentina S.A.

**ÁREA**

6,747 ha





## LAMA

---

### PROJECT GEOLOGY

#### Regional Geology

The geology in the region is dominated by extrusive volcanic rocks that are locally intruded by hypabyssal stocks of varying size and numerous dikes and sills, while the regional structure in and around the gold deposits and prospects in the El Indio belt is dominated by northerly-trending high angle reverse faults, normal faults and fold belts oriented parallel to the major structural grain. Lama is positioned near the center of a northerly trending graben that contains nearly the entire Tertiary volcanic sequence that is distributed along the spine of the cordillera in Chile and Argentina.

#### Deposit Geology

Lama area has been the center of repeated intrusive and volcanic activity, beginning with a sequence of dacite and rhyolite ignimbrite ash flows deposited in the early Permian. The flows were then intruded during LatePermian/Triassic time by a granite batholith, which comprises the Lama granite intrusive complex and occupies the central and eastern portions of the district, the dominant host lithology for the deposit.

After a long hiatus that extended into the Oligocene, numerous small diorite stocks and dikes were intruded into the granite complex and volcanics. Dike emplacement continued into the Miocene, followed by deposition of Upper Middle Miocene dacite ash flows. This Miocene intrusive activity was the precursor to the magmatism and associated hydrothermal activity around 8.78-8.79 My that produced the deposit.

#### Project Status FEASIBILITY - RE - ENGINEERING





# LAMA

**Contact**

<https://www.barrick.com/>

+1 416 861-9911

Oficina en Argentina:

054-264-4298100

## Resources 2022

RESOURCES*	Gold (Moz)	Silver (Moz)
Measured	2.6	79
Indicated	19	660
Inferred	0.86	8.8

\*The values correspond to the Pascua-Lama project.

## Technical and Economic Information

Estimated average annual production: -

CAPEX: 1,200 million USD

Estimated LOM: -

Mining Method: -

### Sources Consulted

2011-03-31 Technical Report 43-101 Pascua-Lama. Barrick Gold Corp

[https://s25.q4cdn.com/322814910/files/doc\\_news/2023/01/Focus\\_on\\_Tier\\_One\\_Assets\\_Delivers\\_Significant\\_Increase\\_in\\_Resources\\_and\\_Reserves.pdf#page=7](https://s25.q4cdn.com/322814910/files/doc_news/2023/01/Focus_on_Tier_One_Assets_Delivers_Significant_Increase_in_Resources_and_Reserves.pdf#page=7)







Au

SUYAI

2



Ministerio de Economía  
**Argentina**

Secretaría de Minería

Au

# SUYAI



## LOCATION

(42° 52' 59" Lat. S; 71° 05' 59" Long. W)

The Suyai Underground Mine project is located on the Esquel mountain range, at a distance of approximately 28 kilometers by road, or 9 kilometers in a straight line from the city of Esquel, in the province of Chubut.



## MINERALIZATION TYPE

Low Sulphidation Epithermal Style (Au-Ag)



## PROPERTY DATA OWNER / CONTROLLER

Yamana Gold Inc.



## OPERATOR

Suyai del Sur S.A.



## ÁREA

36,702 ha





## SUYAI

---

### PROJECT GEOLOGY

#### Regional Geology

The deposit is located in the Cordón Esquel, a northwest bound elevation where Palaeozoic and Tertiary rocks emerge. The basal unit is a set of Palaeozoic metasediments. They are covered by a marine sedimentary sequence of Jurassic age and in discordance covered by basaltic, andesitic and pyroclastic flows, at the top, of the Upper Jurassic. The sequence is intruded by granites from the Lower Cretaceous and culminates in volcanic and sedimentary deposits from the Tertiary (Oligocene).

#### Deposit Geology

The mineralization system is in epithermal veins of Quartz- Adularia-Sericite, hosted in rocks of andesitic composition of Jurassic age. Precious metals are found by filling in cavities. The veins have an angle of 25° to 35° and are distributed in a structural corridor 5 km long and 2 km wide, in gently folded andesitic volcanic rocks.

#### Project Status FEASIBILITY





# SUYAI

**Contact**  
investor@yamana.com

## Resources

RESOURCES	Metal Content	
	Au (oz)	Ag (Oz)
Measured and Indicated	2,286,000	3,523,000
Inferred	274,000	575,000

## Technical and Economic Information

Estimated average annual production: Gold: 250,000 Oz

Product to obtain: Doré (Au-Ag)

CAPEX: 220 million USD

Mining Method: Underground

### Sources Consulted

[https://s28.q4cdn.com/334653565/files/doc\\_downloads/2022/Yamana-AR21\\_R-R\\_for-website\\_07-02-22\\_315pm\\_ARIAL-\(1\).pdf](https://s28.q4cdn.com/334653565/files/doc_downloads/2022/Yamana-AR21_R-R_for-website_07-02-22_315pm_ARIAL-(1).pdf)

<https://www.sec.gov/Archives/edgar/data/1264089/000126408918000005/ex9912017aif.htm>

Meridian Gold Inc. Esquel Gold Project, Argentina. Technical Report, March 31, 2003



Au

TAGUAS

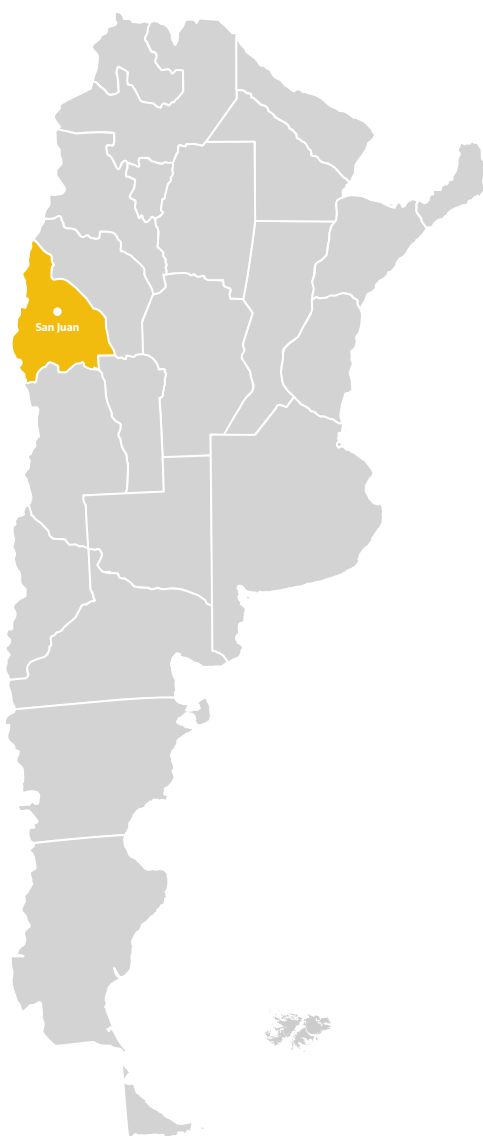
3





Au

## TAGUAS

**LOCATION**

(29° 11' 27.79" Lat. S; 69° 52' 35.98" Long. W)

Access to the site is from the town of Tudcum, located 200 km from the city of San Juan. To reach Taguas, the 148 km mining road that links Tudcum to the Veladero gold mine is used. From Veladero one must travel 25 km further north along the Las Taguas River to reach the Project camp.

**MINERALIZATION TYPE**

High Sulphidation Epithermal Style  
(Au-Ag)

**PROPERTY DATA  
OWNER / CONTROLLER**

Orvana Minerals Corp.

**OPERATOR**

Compañía Minera Piuquenes S.A.

**ÁREA**

3,274 ha





# TAGUAS

---

## PROJECT GEOLOGY

### Regional Geology

Taguas is located at the northern end of the Cura Valley volcanic belt, of tertiary age, and on the eastern flank of the El Indio metallogenic belt (Siddeley and Araneda, 1990). The physical continuity of the volcanism and stratigraphy of the thin Chilean Cura Valley volcanic belt has been confirmed by several regional studies (Ramos 1995, 1998 and Godeas et al., 1993). The Cura Valley belt has similarities with the Chilean flank in both age and type of basement and alterations (Davidson and Mpodozis, 1991) and is an extension of the El Indio belt in Argentina.

### Deposit Geology

The Taguas property is home to a high-sulfidation gold-silver epithermal system housed in altered Tertiary volcanic rhyolites. Supergene gold-silver oxide mineralization occurs in the southern half of Taguas, at Cerro Taguas Norte, Cerro Taguas Sur, Cerro III and Cerro IV. This mineralization consists of sub-vertical mineralized structures, which also impact in the northeast, in a zone of lower grade mineralization. The high grade zones range in width from 1.5m to 8m and in length from 40m to over 500m. High grade zones consist of relatively continuous mineralization with gold grades ranging from 0.2 to over 4.0 g/t Au and 10 to over 50 g/t Au. Oxidation extends from the surface to approximately 200m below the surface. Gold-silver sulphides (pyrite-enargite) have been found in the north central zone of the property, at Cerro Campamento, and at Cerro Silla Sur. In addition, intersections grading over 50 g/t Au and 100 g/t Ag have been recognized in discrete mineralized vein structures ranging in length from 1.5 m to 5 m. Evidence of porphyry copper-gold mineralization has also been found on the Taguas property.

### Project Status PRELIMINARY ECONOMIC ASSESSMENT

#### Company's Announcement

06/07/2022. The company announces Taguas Project Phase I Infill.





# TAGUAS

**Contact**

Orvana Minerals Corp.  
70 York Street Suite 1710  
Toronto, Ontario M5J 1S9  
Tel: 416 369 1629

## Resources

INFERED	GOLD		SILVER	
	Grade (Gr/T)	Gold Contained (Oz)	Grade (Gr/T)	Silver Contained (Oz)
Cerro Campamento	4.01	196,311	41.4	2,024,422
Cerro Silla Sur	3.14	75,632	57.9	1,396,163
Cerros Taguas combined	0.3	936,000	9.2	28,882,000

## Technical and Economic Information

Estimated average annual production: Gold: 47,000 Oz | Silver: 825,000 Oz

Product to obtain: Gold-silver doré bars

CAPEX: 141.1 million USD

Estimated LOM: 10 years

Mining Method: Open pit

### Sources Consulted

<https://www.orvana.com/English/operations/Taguas/default.aspx>

[https://s2.q4cdn.com/372236871/files/doc\\_downloads/2022/04/Preliminary-Economic-Assessment-NI-43-101-Technical-Report-on-the-Taguas-Heap-Leach-Project-San-luan-Argentina-%E2%80%93-December-29-2021.pdf](https://s2.q4cdn.com/372236871/files/doc_downloads/2022/04/Preliminary-Economic-Assessment-NI-43-101-Technical-Report-on-the-Taguas-Heap-Leach-Project-San-luan-Argentina-%E2%80%93-December-29-2021.pdf)

<https://www.orvana.com/English/news/news-details/2022/R-E-P-E-A-T---ORVANA-ANNOUNCES-TAGUAS-PROJECT-PHASE-I-INFILL--GROWTH-DRILLING-RESULTS/default.aspx>

[https://s2.q4cdn.com/372236871/files/doc\\_downloads/2022/04/Preliminary-Economic-Assessment-NI-43-101-Technical-Report-on-the-Taguas-Heap-Leach-Project-San-luan-Argentina-%E2%80%93-December-29-2021.pdf](https://s2.q4cdn.com/372236871/files/doc_downloads/2022/04/Preliminary-Economic-Assessment-NI-43-101-Technical-Report-on-the-Taguas-Heap-Leach-Project-San-luan-Argentina-%E2%80%93-December-29-2021.pdf)



# Thank you

---



Ministerio de Economía  
**Argentina**

Secretaría de Minería

