

# Claudia Gold and Silver Project Summary Santa Cruz, Argentina March 2016

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#### **MIRASOL RESOURCES**

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Stephen Nano, President and CEO for the Company and a "Qualified Person" under National Instrument 43-101, has reviewed and approved the scientific and technical information in this presentation.

#### Claudia gold-silver Project – New Joint Venture Agreement



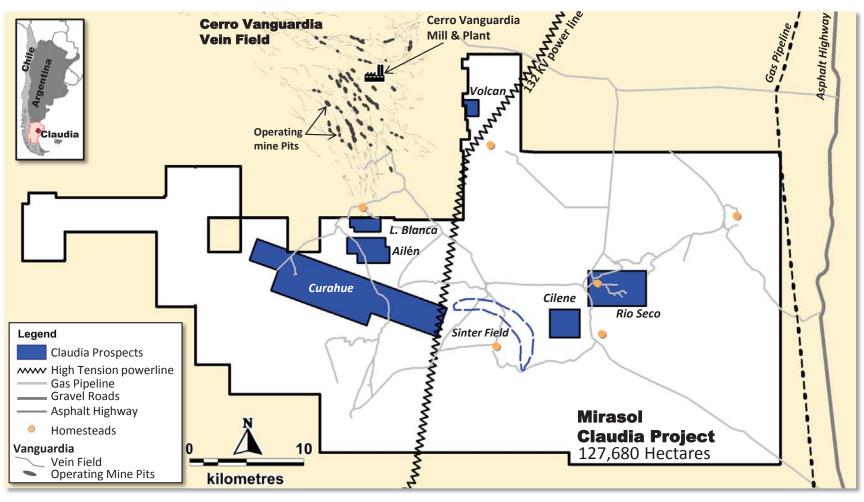
- 100% Mirasol owned, large scale Claudia gold-silver project, Santa Cruz Province, Argentina
- New Joint Venture announced March 1, 2016 with Cerro Vanguardia Mines SA. (CVSA) that operates the adjoining multimillion ounce Cerro Vanguardia gold-silver Mine owned by AngloGold Ashanti 92.5% and Formicruz S.E. (Santa Cruz provincial mining company) 7.5%

#### Joint Venture option terms:

- Year 1 commitment 6,000 m drilling, US \$200 K geophysics, US\$2 M spend
- 2 years to earn 51% 12,000 m drilling, US \$400 K geophysics, US \$5 M exploration spend + US \$1 M cash payments to Mirasol
- 2 additional years to earn 65% with delivery of PEA with +350,000 oz inferred resource
- 2 additional years to earn 75% with delivery of pre-feasibility with minimum 350,000 oz resource, decision to mine and provide funding for Mirasol's 25% equity position
- Deal structured to facilitate rapid development if exploration is successful as satellite deposit to Cerro Vanguardia Mine
- Cerro Vanguardia Mine produced 300,000 ounces of gold in 2015 and >1.25 Moz gold in previous 5 years, mining from open pit, heap leach and underground operations, with total district resources and past production of 8.6 Moz gold & 135 Moz silver
- Cerro Vanguardia is one of AngloGold Ashanti's lower cost producers with all in-sustaining costs in 2015 of US \$873/ounce (From AngloGold Ashanti Q4 2015 report)

# Claudia Project: Excellent Infrastructure/Adjacent to Multi-million Ounce Cerro Vanguardia gold-silver Mine

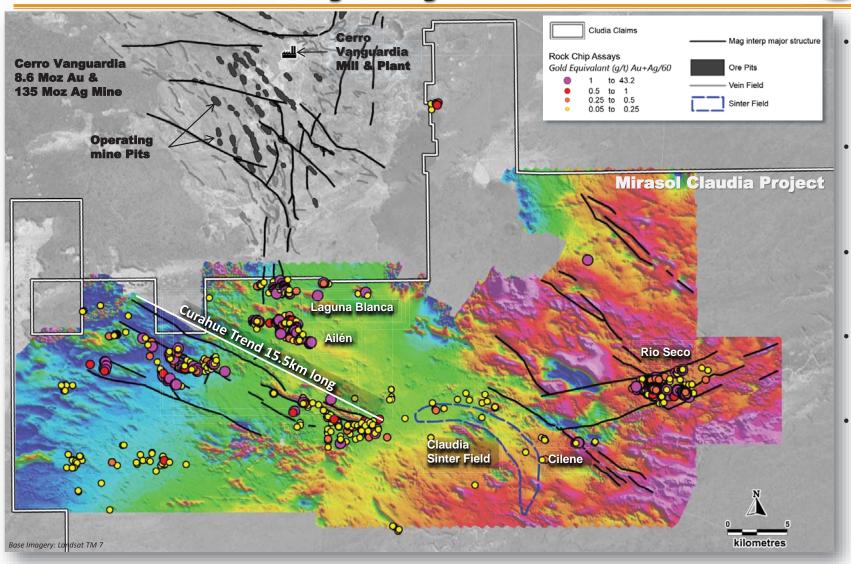




- Project is located 70 km by road from the town of San Julian – base for Cerro Vanguardia Mine work force
- Key prospects are located between 15-30 km (trucking distance) from the Cerro Vanguardia mill and processing plant
- National highway and gas pipeline within kilometres of eastern edge of the project
- Network of provincial formed gravel roads and all weather farm roads within the project
- Under construction: 132 KV national grid connected power lines traverse the project

### Claudia Project: New JV with Adjoining Multi-million Ounce Cerro Vanguardia gold-silver Mine

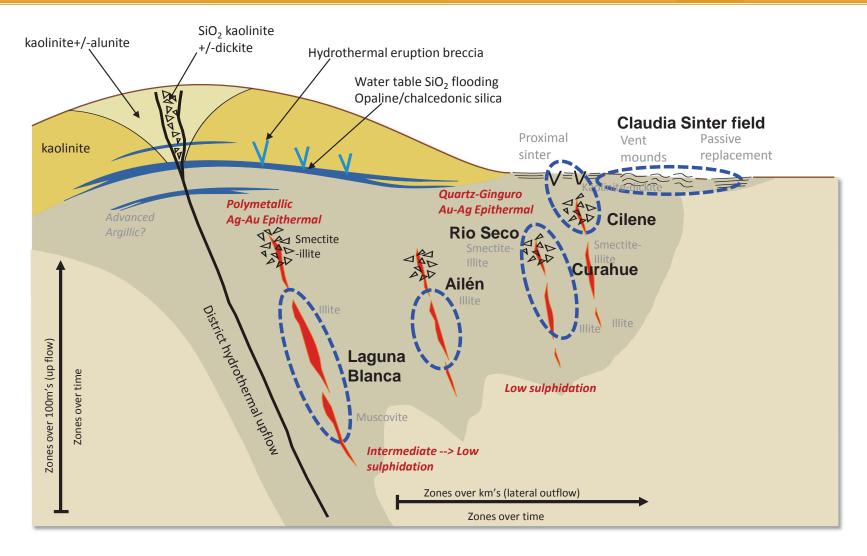




- Claudia Project 5 Principal prospects adjacent to Cerro Vanguardia gold-silver Mine (CVSA)
- CVSA 92.5% AngloGold Ashanti and 7.5% Formicruz - a Santa Cruz provincial mining company
- Cerro Vanguardia Total district resources and past production of 8.6 Moz Au & 135 Moz Ag
- Production is from open pits, heap leach and underground operations
- Cerro Vanguardia Mine production was 300 koz at an AISC of US \$873/oz in 2015

## Claudia Project: Intermediate to Low Sulphidation Epithermal Model

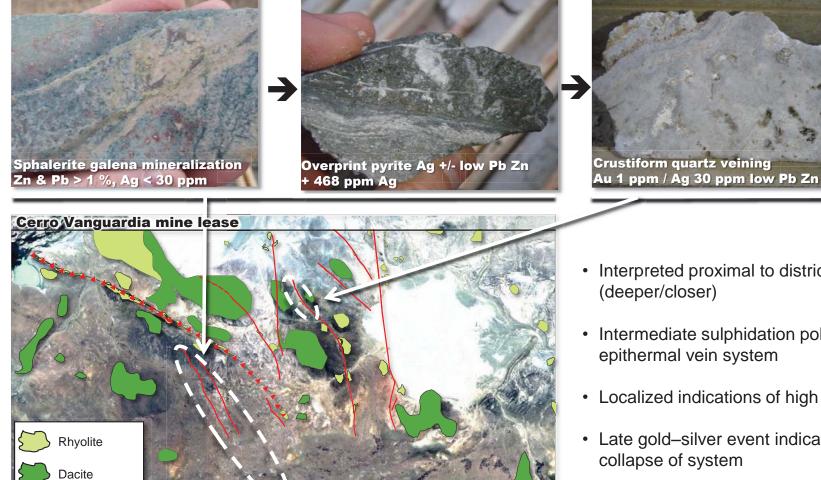




#### Claudia Project: Laguna Blanca - Early Base Metal with Overprinting Intermediate and Low Sulphidation gold-silver Epithermal System

Mineralized Structures





- Interpreted proximal to district up-flow
- Intermediate sulphidation polymetallic epithermal vein system
- Localized indications of high grade silver event
- Late gold-silver event indicating retrograde collapse of system

# Claudia Project: Rio Seco - High Level Quartz-Ginguro Low Sulphidation Epithermal, gold-silver Vein Zone





**Rio Seco Main\_**- Acanthite clots up to 3.7 g/t Au & 85.1 g/t Ag



**Loma Larga** - Jasperiodal banding in vein, up to 1.7 g/t Au & 19.4 g/t Ag



Throat Breccia – up to 20 ppb Au & 2,513 ppb Ag



Silica Sinter – up to 170 ppb Au & 3,517 ppb Ag





Jurassic - Chon Aike



La Matilde Tuff



Water Table silica Mapped Mineralized Structures

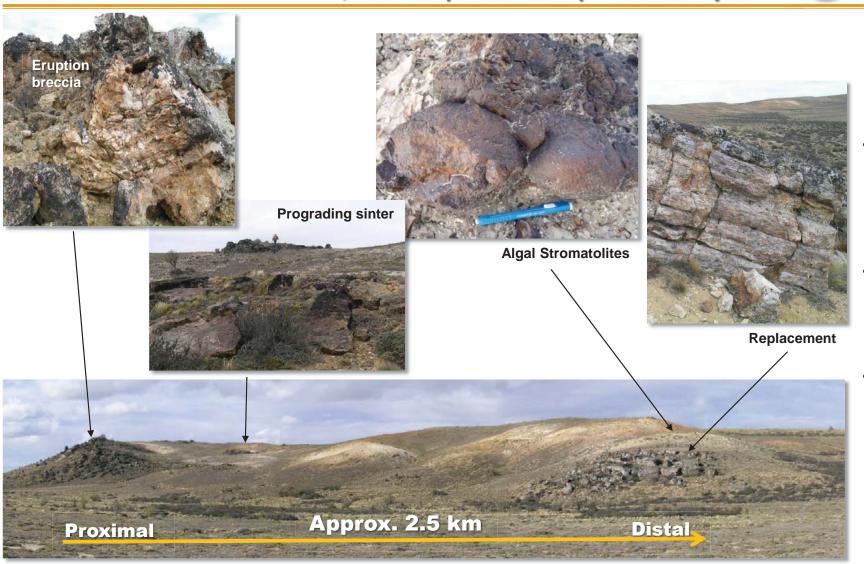


J Zone - Au / Ag Ginguro Banding up to 31.6 g/t Au & 1,175.5 g/t Ag

- Low Sulphidation Epithermal
- · Ginguro style gold-silver system
- Near paleosurface surface, silica textures and hydrothermal features
- High level geochemical signature
- Vein formation interpreted at or just below paleo water table
- Local preservation of subaerial sinter – Jurassic age paleosurface

# Claudia Project: Claudia Sinter Field – Preservation of Paleosurface, Low Sulphidation Epithermal System





- Claudia Sinter field represents Jurassic age paleosurface expression of the low sulphidation epithermal system
- Texture and hydrothermal features indicate vector from proximal fluid source to distal outflow
- Preservation of paleosurface features suggest potential for mineralization at depth

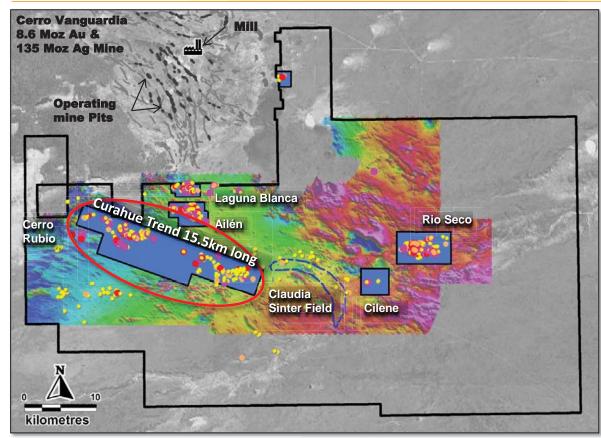
## **Claudia Project: Principal Prospects – Exploration Summaries**





#### **Claudia Project: Curahue Prospect - Overview**





Rock Chip Assays
Gold Equivalant
Au+(Ag/60)

1 to 68.3
0.5 to 1
0.25 to 0.5
0.05 to 0.25

Vanguardia Vein Field

Vanguardia Vein Field

- +15.5 km long largely gravel covered epithermal vein trend identified in gradient array resistivity, rock chip sampling and trenching
- Prospect located 28 km south of Cerro Vanguardia Mill
- Structural interpretation indicates similar setting to Vanguardia to the north
- Multiple vein trends at Io, Europa, Sinope, Callisto, Ganymede and Themisto with trench results from outcropping veins –
  - 2.3 m @ 2.0 g/t Au & 110.9 g/t Ag
  - 1.6 m @ 3.0 g/t Au & 15.0 g/t Ag
  - 2.2 m @ 2.59 g/t Au & 7.6 g/t Ag
  - 2.9 m @ 2.31 g/t Au & 5.9 g/t Ag
- Multiple targets defined No Drilling of these targets to date

### **Claudia Project: Curahue Trend Structural Setting**

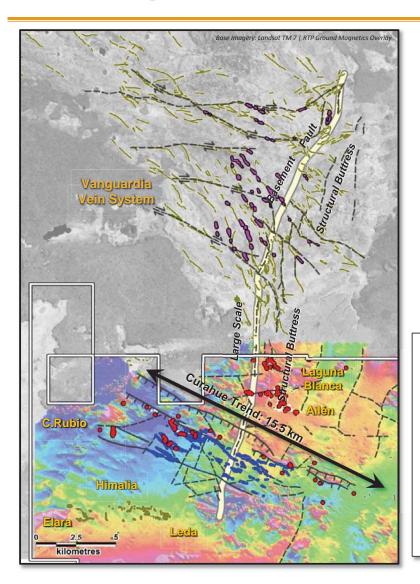
Legend

Low

structure

structure



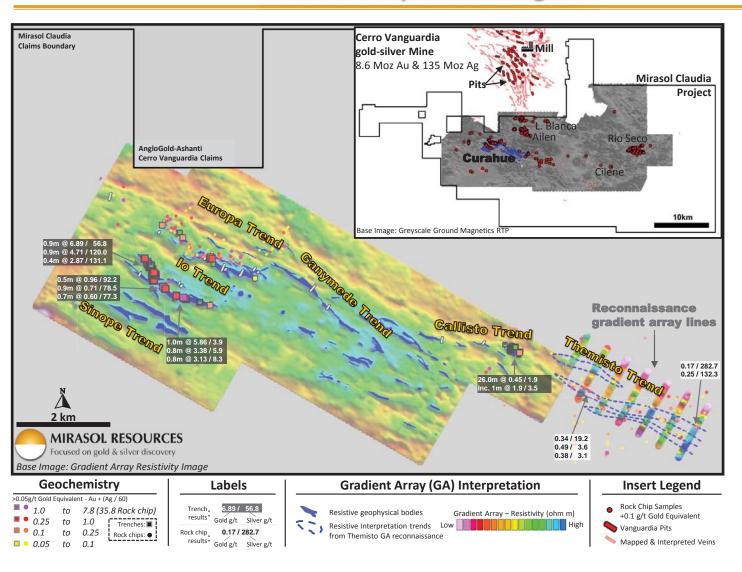


- Curahue system outcropping veins and geophysical vein responses define a 15.5 km by 5.7 km NW orientated vein corridor → Big system / Multiple targets
- Curahue veining preferentially developed adjacent to NS orientated basement structure which controls Vanguardia veins → similar controls to Cerro Vanguardia Ore Shoots
- Claudia cateo Interp major Geophysical resistive Rockchip assay > 0.5g/t Au Equiv (Au + Ag/60) **RTP Ground Mag**

 Interpreted block faulting between Curahue and Laguna Blanca/Ailén indicates south block down → preservation of high level large epithermal system

# Claudia Project: Curahue Trend – 15.5 km Long Vein Zone with Multiple Drill Targets

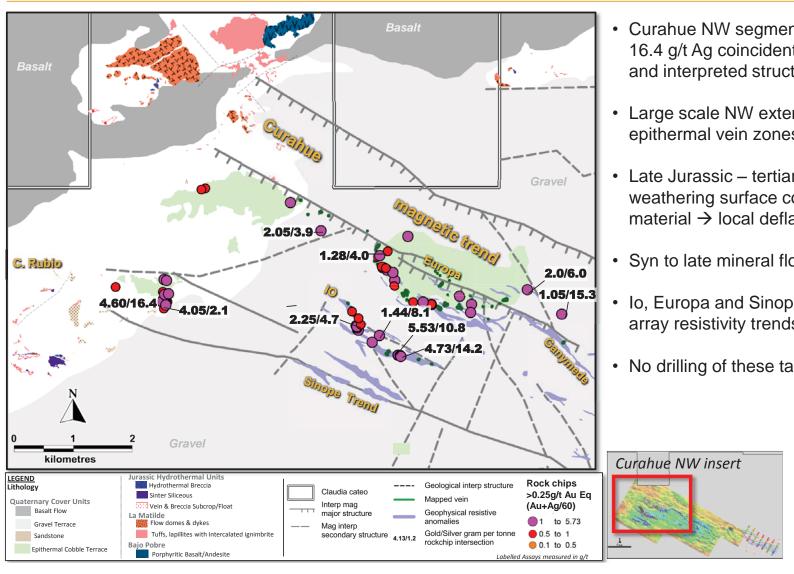




- 6 main vein trends defined in geophysics, rock chip and trenching within the 15.5 km zone identified to date
- Zone potentially open to the west, south and southeast
- Thin post mineral cover conceals large parts of the interpreted vein system
- Trenching confirms that gradient array resistivity anomalies are large concealed gold-silver epithermal veins and vein zones

### **Claudia Project: Curahue Trend NW Segment – Geological Setting**

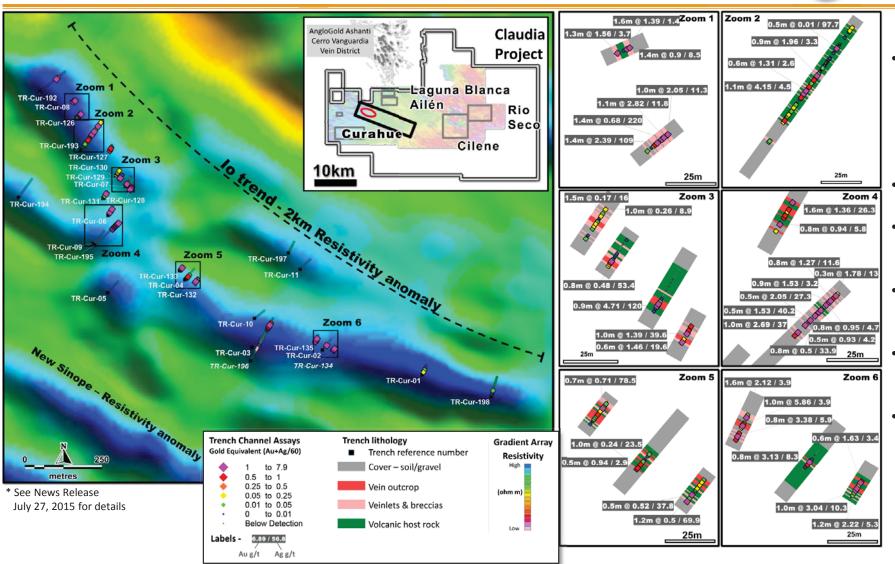




- Curahue NW segment has rock chips up to 5.53 g/t Au & 16.4 g/t Ag coincident with gradient array resistive trends and interpreted structure from ground magnetics
- Large scale NW extension faults host a number of large epithermal vein zones
- Late Jurassic tertiary age? cobble terrace and ferricrete weathering surface contain abundant epithermal vein material → local deflation material from underlying veins
- Syn to late mineral flows / domes on NW extension faults
- Io, Europa and Sinope trends: >10 km of covered gradient array resistivity trends map a large epithermal vein field
- No drilling of these targets

#### **Claudia Project: Curahue - Io Trend Trench Channel Results**

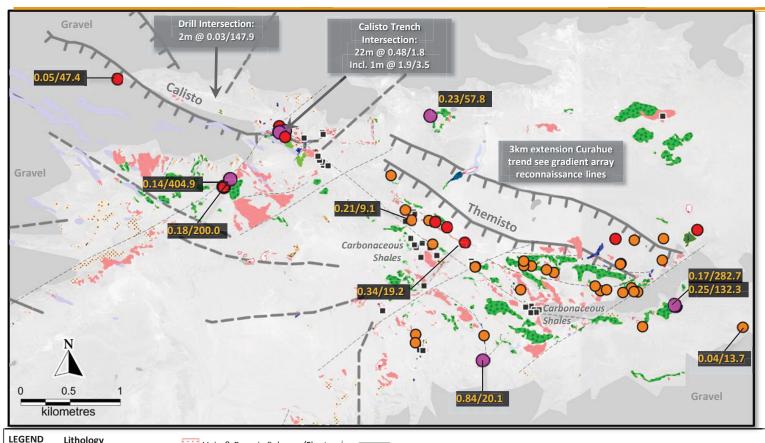




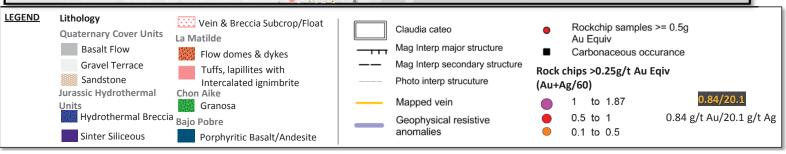
- Io is one of six large resistivity trends (Io, Europa, Ganymede, Sinope, Callisto, Themisto)
- >2 km long vein zone
- Individual veins to 2.9 m wide
- Veins/veinlet zones exceed 25-30 m wide
- Assays to 5.86g/t Au & 220 g/t Ag
- · No drilling to date

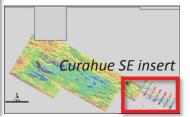
#### **Claudia Project: Curahue Trend South East Segment- Geology**





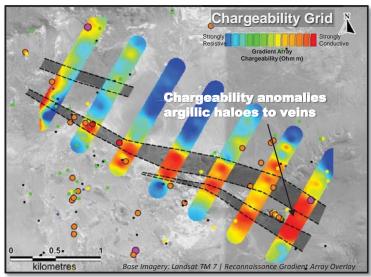
- Geological mapping of carbonaceous shale in sequence indicates preservation of Jurassic age paleosurface subaqueous setting – top of system preserved
- Rock chip sampling high level chalcedonic veining returned results up to 0.84 g/t Au & 282.7 g/t Ag
- Trenches returned results up to 22.0 m @ 0.48 g/t Au & 1.8 g/t Ag inc. 1 m @ 1.9 g/t Au & 3.5 g/t Ag
- Off trend historic JV partner drill hole returned 2 m @ 0.03 g/t Au & 147.9 g/t Ag
- Reconnaissance gradient array at Themisto identifies large covered resistive trends





# Claudia Project: Curahue – Themisto Trend, Reconnaissance Gradient Array Geophysics



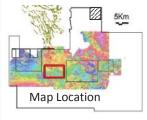


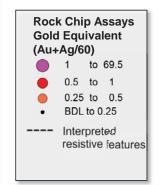
Resistivity Grid
Strongly
Resistivity (Ohm m)

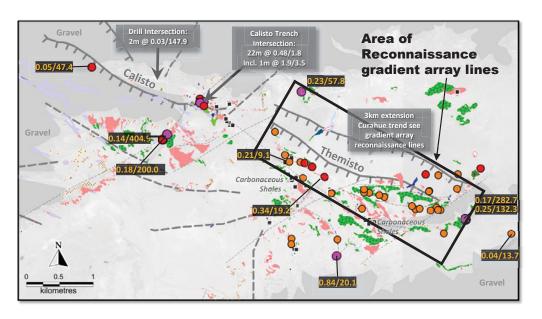
Chargeability anomalies argillic haloes to veins

Base Imagery: Landsat TM 7 | Reconnaissance Gradient Array Over

- 3 km extension of Curahue Trend to the south east in reconnaissance gradient array geophysics
- Sub-cropping chalcedonic to saccharoidal veins typically sub-metre widths coincident with resistive anomalies suggest wider veins at depth / top of vein system.
- Rock chip sampling Au to 0.84 g/t & Ag to 282.7 g/t strongly anomalous high level epithermal system indicators As Sb Hg
- Strong resistivity anomalies suggest large covered vein target
- · No Drilling to date







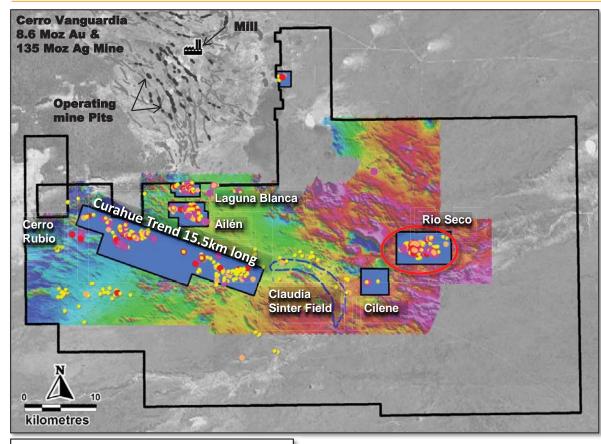
## **Claudia Project: Rio Seco Prospect – Exploration Summary**





#### **Claudia Project: Rio Seco Prospect - Exploration Summary**





Rock Chip Assays
Gold Equivalant
Au+(Ag/60)

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0.5 to 1
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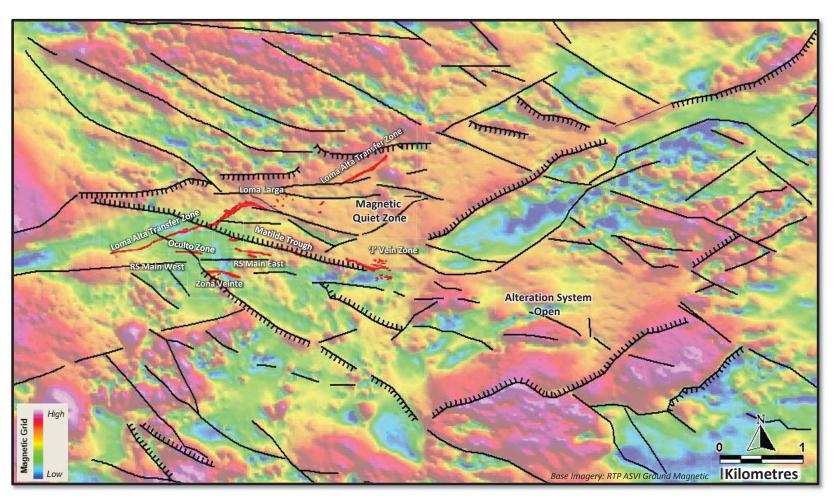
Vanguardia Pits

Vanguardia Vein Field

- Epithermal quartz-ginguro gold-silver veining intermittently outcropping over 3.2 x 2.3 km with rock chip samples up to 23.2 g/t Au & 1,175 g/t Ag
- Geophysical surveys indicate veining continues under post mineral cover to west and east
- 25 DD holes 2,560 m
- 2 RC holes 185 m
- Better drilling results:
- CRS-DH-006 (5.53 m @ 1.01 g/t Au & 37.87 g/t Ag)
- CRS-DH-019 (15.55 m @ 0.29 g/t Au & 50.87 g/t Ag and 10.6 m @ 0.1 g/t Au & 37.86 g/t Ag) on Loma Alta Transfer
- Drilling indicates increasing grades and width at depth:
- Post-drilling trenching on Loma Alta intersected up to 6.92 g/t Au, 448 g/t Ag; in new target areas
- Post drilling pole dipole geophysics identifies large resistive anomalies – covered drill targets
  - → Multiple new drill targets identified

#### **Claudia Project: Rio Seco – Structural Setting**

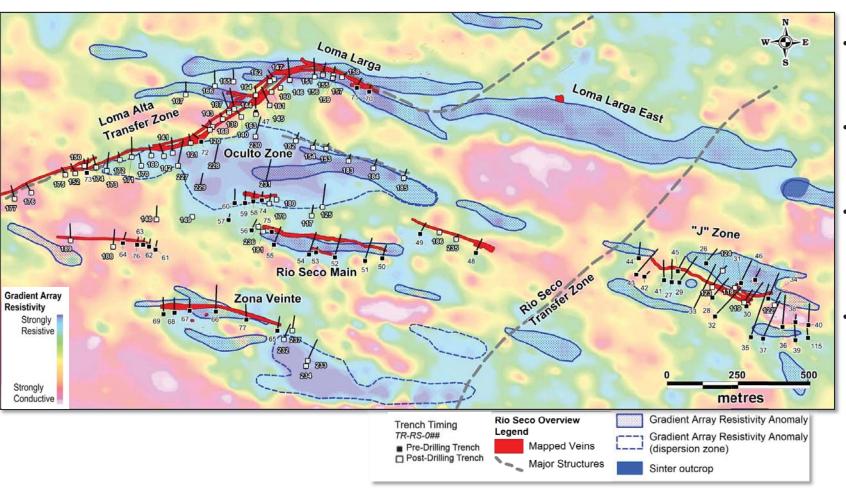




- Magnetic lows correlate with mapped alteration
- Structural interpretation defined Extensional basin developed (pull-apart) where east northeast trend intersects northwest structural zone
- Magnetic Lows extend from outcropping veining under cover, indicating potential extensions to the system
- Alteration and veining focussed in syn-mineral extensional faults

### Claudia Project: Rio Seco - Gradient Array Geophysics and Trenching



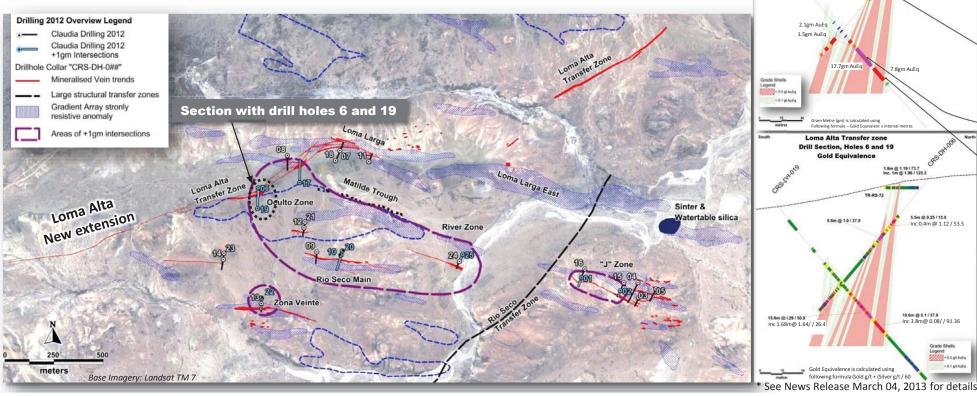


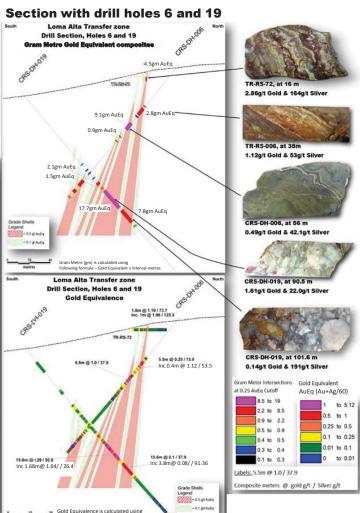
- Good correlation of resistivity anomalies in gradient array with known veins
- Resistivity anomalies extend under cover, indicating vein extensions
- Multiple untested resistivity features identified in permissive structural setting in areas of cover
- New drill targets defined

#### Claudia Project: Rio Seco - Mirasol 2012 Drilling Overview



- 25 shallow core holes drilled, totalling 2,599 m
- Broad zone of anomalous gold-silver and localized intersections of ore-grade style gold-silver mineralization
- Holes 6 and 19 vector to depth suggesting top of mineralized shoot has been intersected further drilling required





following formula Gold g/t + (Silver g/t / 60

## Claudia Project: Rio Seco - Mirasol 2012 Drilling Results



Hole ID	Easting Metres	Northing Metres	From Metres	To Metres	Interval metres downhole	Gold g/t	Silver g/t	AuEq g/t	AuEq Gram Metre
CRS-DH-001	2,575,750	4,621,321	19.37	21.51	2.14	3.06	72.9	4.28	9.15
inc	2,575,750	4,621,321	20.00	20.83	0.83	6.59	139.3	8.91	7.40
CRS-DH-002	2,575,948	4,621,256	16.70	17.45	0.75	0.1	68	1.23	0.9
CRS-DH-006	2,574,103	4,621,777	38.22	43.66	5.44	0.25	15.9	0.51	2.8
inc	2,574,103	4,621,777	38.22	38.65	0.43	1.12	53.5	2.01	0.8
CRS-DH-006	2,574,103	4,621,777	50.98	56.51	5.53	1.01	37.9	1.64	9.0
CRS-DH-006	2,574,103	4,621,777	101.50	104.54	3.04	0.16	18.8	0.47	1.4
CRS-DH-006	2,574,103	4,621,777	109.64	112.05	2.41	0.21	50	1.04	2.5
CRS-DH-006	2,574,103	4,621,777	115.19	117.10	1.91	0.02	29	0.50	0.9
CRS-DH-010	2,574,526	4,621,435	20.65	22.25	1.60	0.61	21.9	0.98	1.5
CRS-DH-019	2,574,102	4,621,669	79.75	81.85	2.10	0.58	26.4	1.02	2.1
CRS-DH-019	2,574,102	4,621,669	83.86	86.00	2.14	0.04	39.2	0.69	1.4
CRS-DH-019	2,574,102	4,621,669	87.05	102.60	15.55	0.29	50.9	1.14	17.6
inc	2,574,102	4,621,669	89.62	91.30	1.68	1.64	26.4	2.08	3.4
CRS-DH-019	2,574,102	4,621,669	104.80	115.40	10.60	0.1	37.9	0.73	7.7
inc	2,574,102	4,621,669	97.85	101.60	3.75	0.08	91.4	1.60	6.0
CRS-DH-020	2,574,533	4,621,456	52.70	54.79	2.09	1.16	25.3	1.58	3.3
inc	2,574,533	4,621,456	52.70	53.45	0.75	1.79	52	2.66	1.9
CRS-DH-022	2,574,121	4,621,219	80.00	82.00	2.00	0.64	52.5	1.52	3.0
CRS-DH-024	2,575,130	4,621,403	20.78	22.82	2.04	0.48	9.7	0.64	1.3
CRS-DH-025	2,575,146	4,621,439	63.90	65.20	1.30	1.6	7.3	1.72	2.2
inc	2,575,146	4,621,439	64.40	64.90	0.50	2.49	14	2.72	1.3

#### **Best Results include:**

#### CRS-DH-019:

- 15.55 m @ 0.29 g/t Au & 50.87 g/t Ag
- 10.6 m @ 0.1 g/t Au & 37.86 g/t Ag

#### CRS-DH-006:

• 5.53 m @ 1.01 g/t Au & 37.87 g/t Ag

#### CRS-DH-001:

 2.14 m @ 3.06 g/t Au & 72.91 g/t Ag including 0.83 m @ 6.59 g/t Au & 139.3 g/t Ag

#### Results base on the following criteria

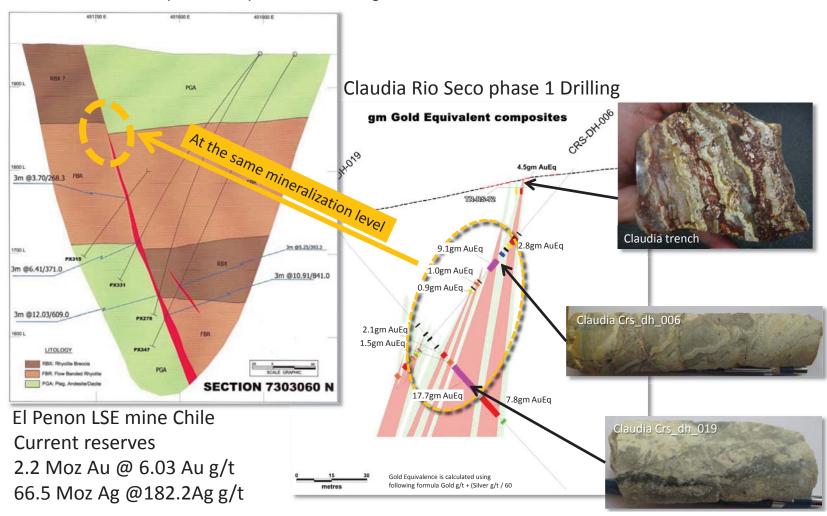
- Coordinates presented above is the collar location of the drill hole with
- Campo Inchauspe / Gauss-Kruger zone 2 coordinate system for Easting and Northing
- Gold Equivalent (AuEq) is calculated using the following formula Au + (Ag/60)
- Weighted Average Intervals have been calculated at 0.25 g/t AuEq Cutoff allowing up to 1 m of Internal Dilution at 0.1 g/t
- Assay Intervals presented are limited to those with a gram x metre product greater than 1 gram metres

<sup>\*</sup> See News Release March 04, 2013 for details

# Claudia Project: Rio Seco – Mirasol 2012 Drilling Loma Alta → Interpreted "Top Of Shoot" Increasing Grade / Widths with Depth



- · Vein textures and mineralization style indicate Loma Alta drilling at top of vein
- Grades and widths increase with depth → deeper untested target



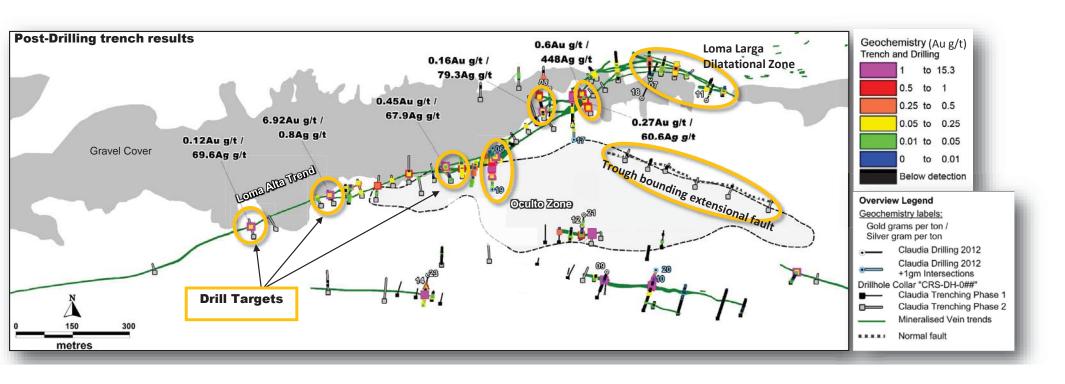
### Claudia Project: Rio Seco - Post Mirasol 2012 Drilling - New Targets



Post drill hole trenching, returned assay results to:
 6.92 g/t Au & 0.8 g/t Ag
 0.6 g/t Au & 448 g/t Ag

0.45 g/t Au & 67.9 g/t Ag

• 8 new high priority targets identified for drill testing including drilling under the large dilation zone at Loma Larga and the trough bounding extensional fault to the south



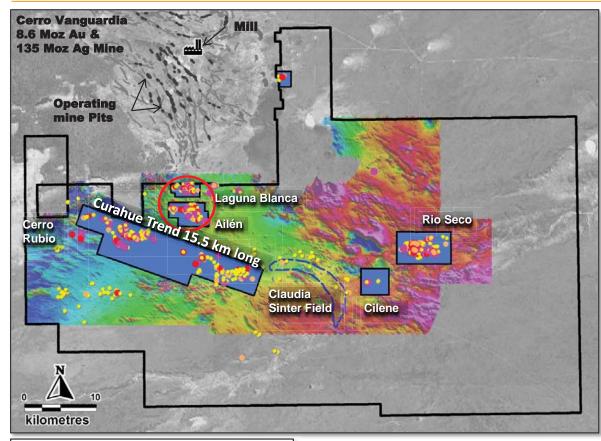
## Claudia Project: Laguna Blanca Prospect – Exploration Summary





#### Claudia Project: Laguna Blanca/Ailén Silver-gold Base Metal Epithermal Veining - Overview





Rock Chip Assays
Gold Equivalant
Au+(Ag/60)

1 to 68.3
0.5 to 1
0.25 to 0.5
0.05 to 0.25

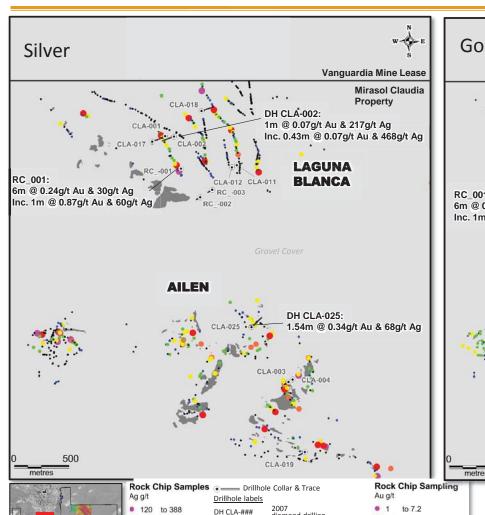
Vanguardia Pits

Vanguardia Vein Field

- Over 8 km cumulative strike continuation of the Cerro Vanguardia epithermal veining
- The mineralized trends continue under shallow gravel cover potentially joining the Laguna Blanca – Ailén system
- 9 holes drilled by previous JV partner MHA in Laguna Blanca and 4 in Ailén
- Drilling shows early pulses of Pb-Zn > Ag → high grade silver
   → gold-silver veining
- Geology and geochemistry suggest Ailén zoning to more gold-silver rich epithermal veining
- Post JV drilling, Mirasol mapping and trenching in 2013 identifies new veining
- Best result of 4 m @ 2.06 g/t Au & 31.48 g/t Ag including 0.5 m @ 8.04 g/t Au & 34.4 g/t Ag
- Integrated interpretation of geophysics, geology and geochemistry better define vein strikes and potential drill targets

#### Claudia Project: Laguna Blanca – Ailén, Rock Chips and Drillholes



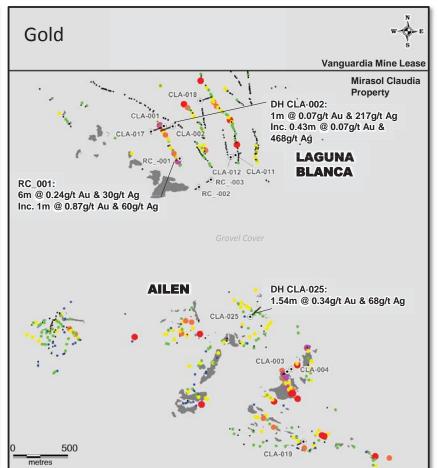


Mapped Volcanics

0 to 0.01

BD to 0

to 10

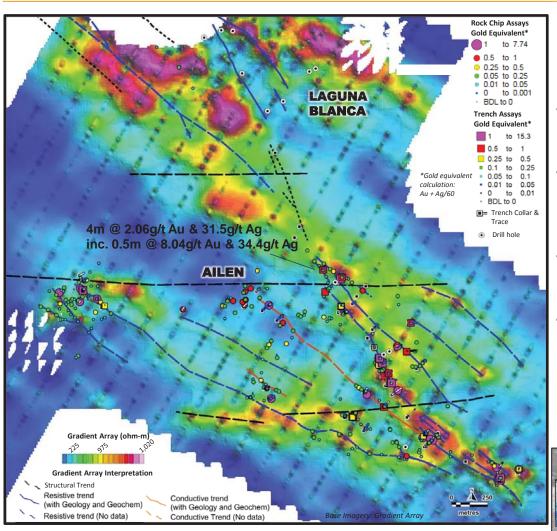


\* Historical Joint Venture Drill Results, See News Release June 01, 2009 and January 08, 2009 for details

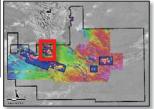
- Over 8 km cumulative strike extent of outcrop / subcrop epithermal veining
- Previous JV partner drilling with anomalous gold-silver and basemetal results
- Drill results 6 m @ 0.24 g/t Au & 30 g/t Ag Inc. 1 m @ 0.87 g/t Au & 60 g/t Ag
- Post drilling rock chip up to 7.17 g/t Au & 258 g/t Ag
- Post Drilling trench
  0.5 m @ 8.04 g/t Au
  & 34.4 g/t Ag

### Claudia Project: Laguna Blanca – Ailén post drilling, Trench and Gradient Array Geophysics results





- Gradient array geophysics maps resistivity trends, suggesting covered extensions of veining
- Post previous JV partner drilling trenching in areas of outcrop and thin gravel cover extend the known mineralization to the north-west and south-east
- Better trench channel results include 4 m @ 2.06 g/t Au & 31.5 g/t Ag including 0.5 m @ 8.04 g/t Au & 34.4 g/t Ag
- Further trenching of resistivity trends required to define extent of vein zone and drill targets



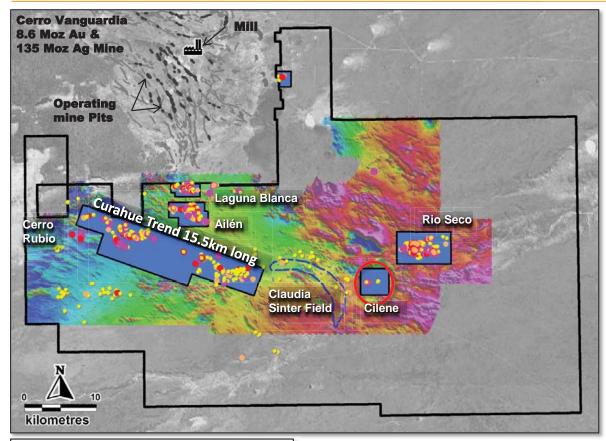
## **Claudia Project: Cilene Prospect – Exploration Summary**



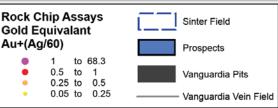


#### **Claudia Project: Cilene Prospect - Overview**





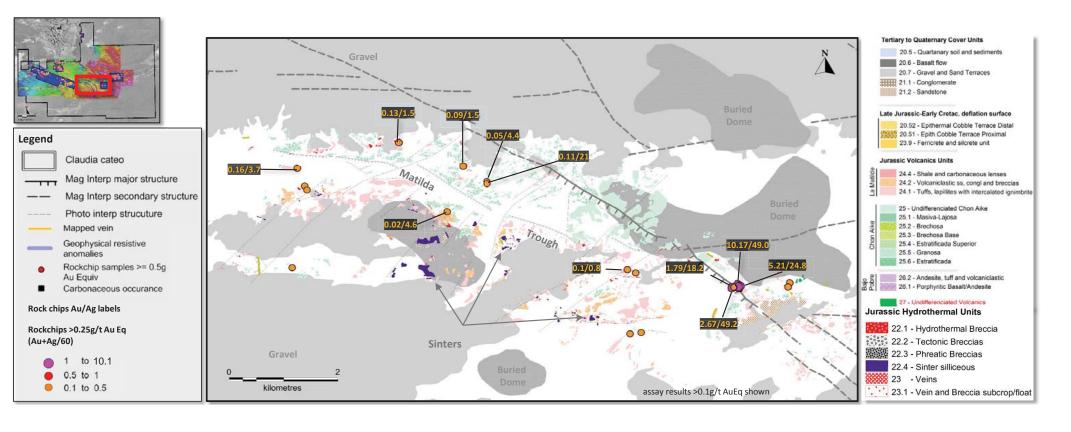
- Areas of high level epithermal veining spatially associated with an extensive sinter system
- Cilene prospect with rock chips to 10.17 g/t Au & 49 g/t Ag hosted in high level sub-metre wide veins
- Alteration cap and post mineral gravel conceal potential extensions to the vein zone in permissive structural settings
- Further systematic exploration required



#### **Claudia Project: Cilene Prospect - Geology**

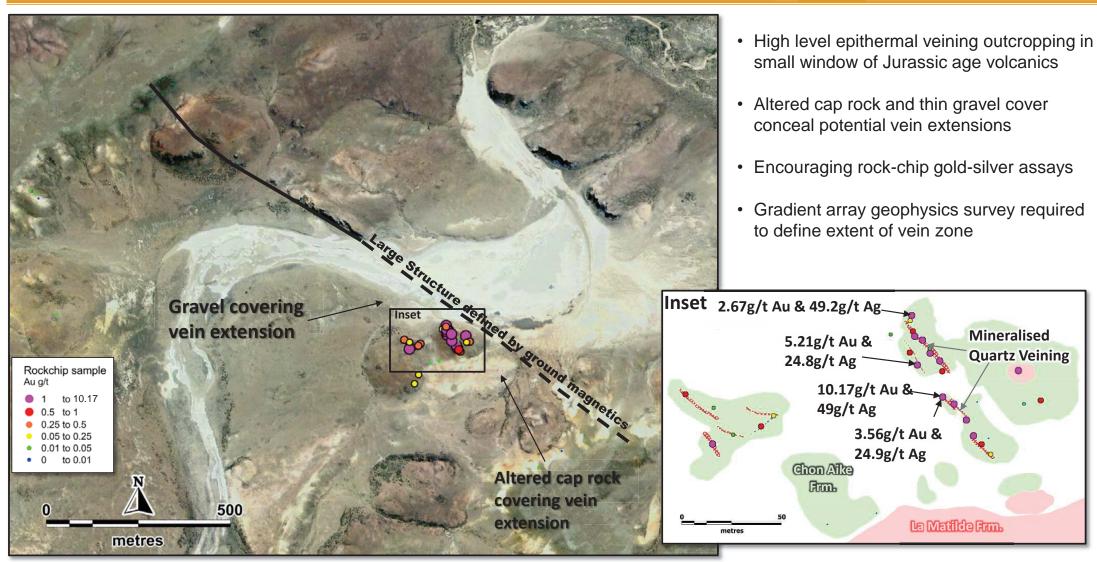


- Geological mapping and rock chip sampling; identifying gold-silver epithermal veins and preserved Jurassic age Sinter, in permissive structural setting
- Assay results up to 10.1 g/t Au & 49 g/t Ag from sub-metre banded epithermal veins
- Veining may extend concealed by altered syn-mineral cap rocks and post-mineral thin gravel cover
- Further mapping, sampling and electrical geophysics is required to define drill targets



#### Claudia Project: Cilene High Level Epithermal gold-silver System





#### **Claudia Project Summary**







- → Large scale prospect Multiple projects with drill targets
- → New JV with adjacent multi-million ounce Cerro Vanguardia mine
- → US \$ 2 M 6,000 m drilling commitment in Year 1
- → 2 year earn-in to 51% US \$ 5 M, 12,000 m drilling, US \$ 1 M cash payments to Mirasol
- → Additional 2 years to earn 65% for PEA with +350,000 oz gold resource
- → Additional 2 years to earn 75% for pre-feasibility with +350,000 oz gold resource, decision to mine, CVSA to provide funding for Mirasol's 25% equity position
- → Deal structured to facilitate rapid development if exploration is successful as satellite deposit to Cerro Vanguardia mine

5 principal prospects, excellent infrastructure, year round exploration

**Curahue**: Extensive >15.5 km gravel covered gold-silver vein system with trenching up to 2.3 m @ 2.0 g/t Au & 110.9 g/t Ag and 1.6 m @ 3.0 g/t Au & 15.0 g/t Ag. Multiple drill targets identified

**Rio Seco**: High level gold-silver epithermal veining developed over 3.2 x 2.3 km with rock chip samples up to 23.2 g/t Au & 1,175 g/t Ag. Encouraging first round of drill results suggests top of mineralized shoot intersected. Multiple new drill targets identified.

**Laguna Blanca and Ailén**: Over 8 km long gold-silver-base metal trend continuation of Cerro Vanguardia vein field, intermittently outcropping shallow gravels with trench results up to 4 m @ 2.06 g/t Au & 31.5 g/t Ag including 0.5 m @ 8.04 g/t Au & 34.4 g/t Ag

**Cilene**: Vein system with rock chips to 10.1 g/t Au & 49 g/t Ag; potential vein extensions covered by thin post-mineral gravel and altered syn-mineral cap rocks. Associated with large sinter field, suggesting top of mineralized interval is preserved.

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