AURYN RESOURCES

TSX : **AUG** | NYSE American : **AUG**

A Leading Gold Exploration Company

June 2018

Cautionary Notes

Introductory Cautionary Notes

This document has been prepared by Auryn Resources Inc. (the "Company") to introduce the Company's mineral exploration projects. Because it is a high level summary presentation, the information contained herein cannot contain all the information that should be reviewed before making an investment decision. As noted below, the information herein is qualified by the more detailed information contained in the Company's continuous disclosure record found at www.sedar.com and at www.sec.gov. No securities regulatory authority has in any way passed on the merits of this presentation nor any securities referred herein.

The presentation contains "forward-looking statements". Forward-looking statements provide guidance about our plans and aspirations in particular relating to the exploration and potential for development of our mineral properties. These statements, including graphics, involve known and unknown risks, uncertainties and other factors which may cause actual results, performance or achievements of the Company to be materially different from the expectations expressed or implied by such forward-looking statements.

The Company cannot assume a responsibility to keep this presentation updated. Therefore readers should refer to the risk factors and other current information discussed in the Company's Annual Information Form and MD&A for the year ended December 31, 2016 and subsequent continuous disclosure filings with the Canadian Securities Administrators available at www.sedar.com and the Company's registration statement on Form 40-F filed with the United States Securities and Exchange Commission and available at www.sec.gov.

These risks include project title risks. Auryn holds its interests in Peru through Corisur Peru SAC, which controls (among other) certain licenses (including the Huilacollo and Baños del Indio projects) that are located within a special legal zone which runs 50km back from the Peruvian border. As a non-Peruvian company, Auryn's right to ultimately acquire title over the shares issued by Corisur Peru SAC and to own and/or exploit these licenses requires approval from the Peruvian government. While Auryn is in the process of submitting its applications with respect to the approval and does not currently foresee any legal reason why it would be denied the approval, some risk of denial or delay should be assumed to exist.

Michael Henrichsen (Chief Operating Officer), P. Geo is the QP who assumes responsibility for the technical contents of this Presentation.

Cautionary note to United States investors concerning estimates of measured, indicated and inferred resources estimates

This disclosure has been prepared in accordance with the requirements of Canadian securities laws which differ from the requirements of U.S. securities laws. Unless otherwise indicated, all mineral resource estimates included in this disclosure have been prepared in accordance with Canadian National Instrument 43-101 ("Standards of Disclosure for Mineral Projects") and the Canadian Institute of Mining, Metallurgy and Petroleum classification systems. NI 43-101 is a rule developed by the Canadian Securities Administrators that establishes standards for all public disclosure an issuer makes of scientific and technical information concerning mineral projects. These standards differ significantly from the requirements of the United States Securities and Exchange Commission (the "SEC"), and resource estimates disclosed herein may not be comparable to similar information disclosed by U.S. companies.

In addition, this disclosure uses the terms "measured and indicated resources" and "inferred resources" to comply with the reporting standards in Canada. The Company advises United States investors that while those terms are recognized and required by Canadian regulations, the SEC does not recognize them. United States investors are cautioned not to assume that any part or all of the mineral deposits in these categories will ever be converted into mineral reserves. Further, "inferred resources" have a great amount of uncertainty as to their existence and as to whether they can be mined legally or economically. Therefore, United States investors are also cautioned not to assume that all or any part of the "inferred resources" exist. In accordance with Canadian securities laws, estimates of "inferred resources" cannot form the basis of feasibility or other economic studies. It cannot be assumed that all or any part of "measured and indicated resources" or "inferred resources" will ever be upgraded to a higher category or are economically or legally mineable. In addition, disclosure of "contained ounces" is permitted disclosure under Canadian securities laws; however, the SEC only permits issuers to report mineralization as in place tonnage and grade without reference to unit measures.

A Leading Gold Exploration Company

Auryn	▪ Multi asset gold portfolio – 7 projects ▪ **World class technical team** ▪ Management has a record of success
Market Cap $130 mm CDN $100 mm USD	▪ Management team and directors ownership – 16% ▪ **Goldcorp ownership – 12.5%** *(Jan 2017 invested CAD $35mm)* ▪ Insider buying of 1 million shares in the past 18 months ($2.7M)
Optionality	▪ 2 advanced projects with near term potential value ▪ Risk mitigation as a result of number of projects and stages of exploration
Substantial Growth Upside	**2018 Catalysts** ▪ Continuous surface results from Sombrero ▪ Committee Bay drilling – planned July 15 ▪ Possible asset sales

The Discovery Curve = Maximum Value Creation

Previous discoveries of Auryn management

Keegan Resources
(Asanko Gold - Producing)
2008 – 2010

Cayden Resources – Takeover
May 2013 – Sep 2014

Experienced, Balanced Management Team

Management

Ivan Bebek, Co-founder Executive Chairman, Director

Shawn Wallace, Co-founder President, CEO & Director

Michael Henrichsen, MSc Chief Geologist

Peter Rees, CPA, CA CFO and Corporate Secretary

Russell Starr SVP Corporate Finance

Directors

Ivan Bebek

Shawn Wallace

Michael Kosowan, M.A.Sc, P.Eng

Dan McCoy, PhD

Antonio Arribas, PhD, MSc

Steve Cook, LLB

Gordon J. Fretwell, LLB

Record of Success

Our team has raised over $500 million and monetized successes in two previous companies

ASANKO GOLD — ***Producing***

(Formerly Keegan Resources)

Cayden RESOURCES — ***SOLD***

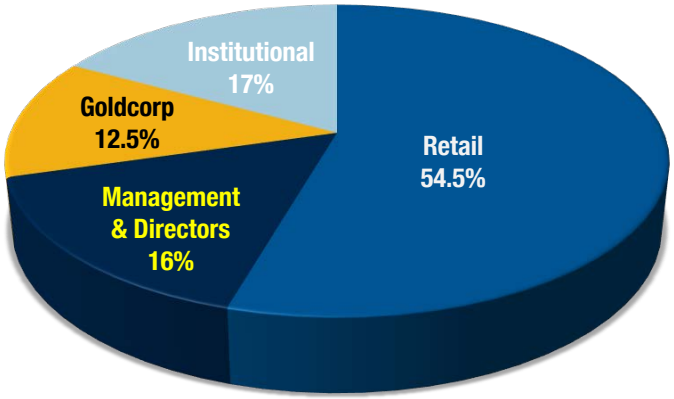
Sold for $205 million to Agnico Eagle in 2014

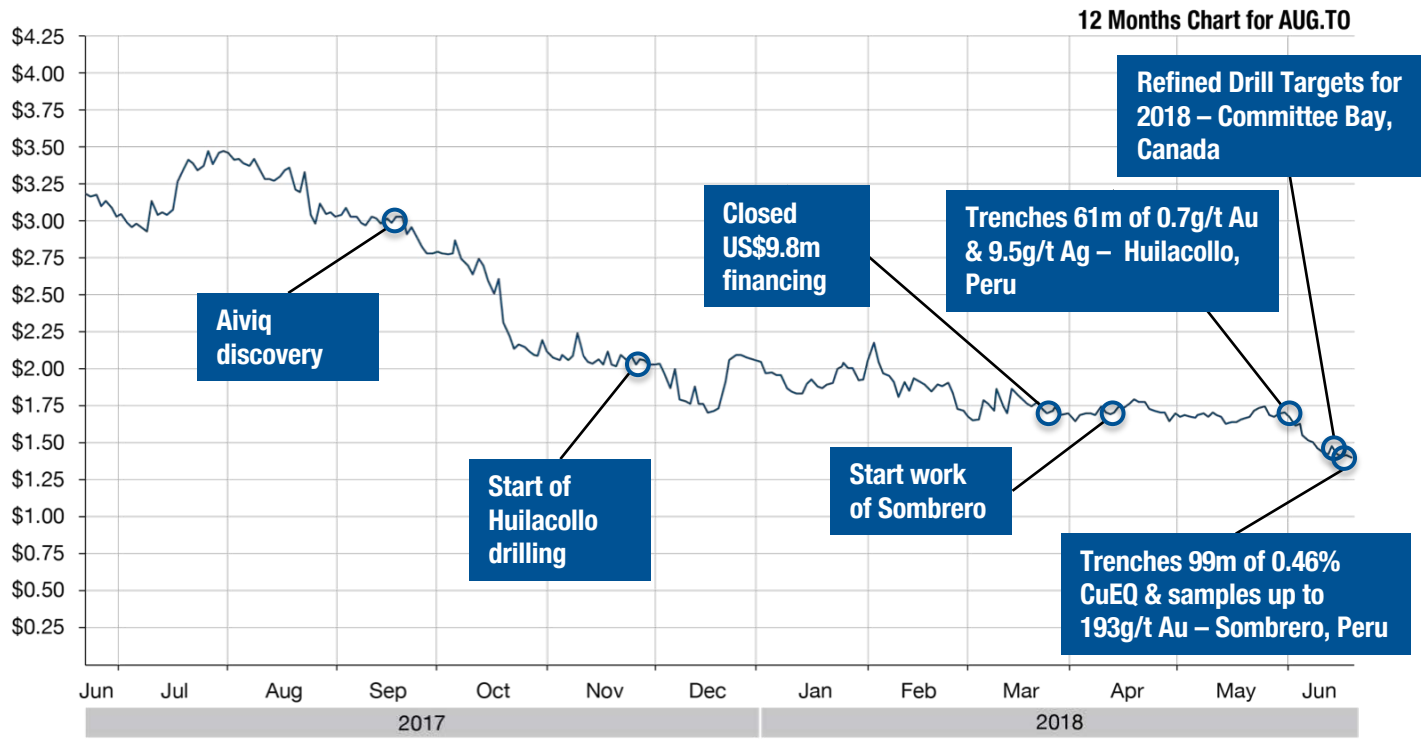
AURYN RESOURCES — ***Exploring***

Capital Structure, Ownership, Balanced Budget

Capitalization

Shares Outstanding	85,923,441
Options outstanding (avg. price $1.89)	5,575,000
Fully Diluted Shares Outstanding	91,498,441
Treasury (As of March 31, 2018)	$11.1 million





World Class Technical Team – "Multiple Disciplines"

Michael Henrichsen
Chief Operating Officer/ Chief Geologist
Former Global Structural Geologist Newmont

David Smithson
VP Exploration
Former Global Mapper/ Geologist Newmont; Technical Lead at Cayden Resources

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Antonio Arribas, PhD, MSc
Director
Former Chief Geologist Newmont, Former VP Geological Sciences BHP Billiton

Dan McCoy, PhD
Director
Former Chief Geologist at Cayden Resources and Keegan Resources

Rael Lipson, PhD
Technical Advisor
Former Chief Exploration Geologist Gold Fields

Miles McAlister
Technical Advisor
Former Exploration & Business Development Manager for Newmont (Africa/Europe)

Miguel Cardozo
Technical Advisor
Prominent Peruvian Exploration Specialist

Kim Cook
Geophysicist
Former Global Geophysicist Newmont & Anglo

Mike McMillan
Research Inversions Geophysicist (CGI – UBC)
Former Global Geophysicist Newmont

Nigel Radford
Geochemist
Former Chief Geochemist Newmont

Ralph Stea
Quaternary Geologist
Former Surficial Geologist & Geochemist with Nova Scotia Department of Natural Resources

Jason Quigley
Aboriginal and Regulatory Affairs
Formerly ran the Canadian Environmental Assessment Agency for Western Canada

Companies the technical team formerly worked with

World Class Gold Exploration Portfolio

2 Current flagship projects

- Committee Bay, Canada
- Sombrero, Peru

Homestake Ridge, Canada
High Grade Gold

- High grade gold deposit
  - ***Indicated resource*:***
    125,000 oz @ 6.25 g/t Au
    1M oz @ 47.9 g/t Ag
  - ***Inferred resource*:***
    932,000 oz @ 4 g/t Au
    21.2M oz @ 90.9 g/t Ag
- Room for significant expansion

Gibson MacQuoid, Canada
High Grade Gold

- 120 km unexplored greenstone belt
- Multiple targets identified to date

Huilacollo, Baños del Indio & Curibaya, Peru
Oxide Gold

- Scalable oxide gold, skarn and porphyry targets

Committee Bay, Canada
High Grade Gold

- 300 km High-grade gold belt
- High grade gold deposit
  - ***Indicated resource**:***
    524,000 oz @ 7.85 g/t Au
  - ***Inferred resource**:***
    720,000 oz @ 7.64 g/t Au
- **3 emerging discoveries**

Scope of exploration upside - unparalleled in the industry

Sombrero, Peru
Cu-Au Skarn/Porphyry

- Scalable oxide gold, skarn and porphyry targets
- 2018 Trench highlights***:
  - 99m of 0.46% CuEQ
  - 105m of 0.30% CuEQ

* Refer to 43-101 report dated September 29, 2017 as filed under Auryn Resource's Sedar profile at www.sedar.com
** Refer to NI43-101 report dated May 31, 2017 filed under Auryn Resources profile at www.sedar.com
*** Refer to Sombrero news release dated June 19, 2018 at www.aurynresources.com

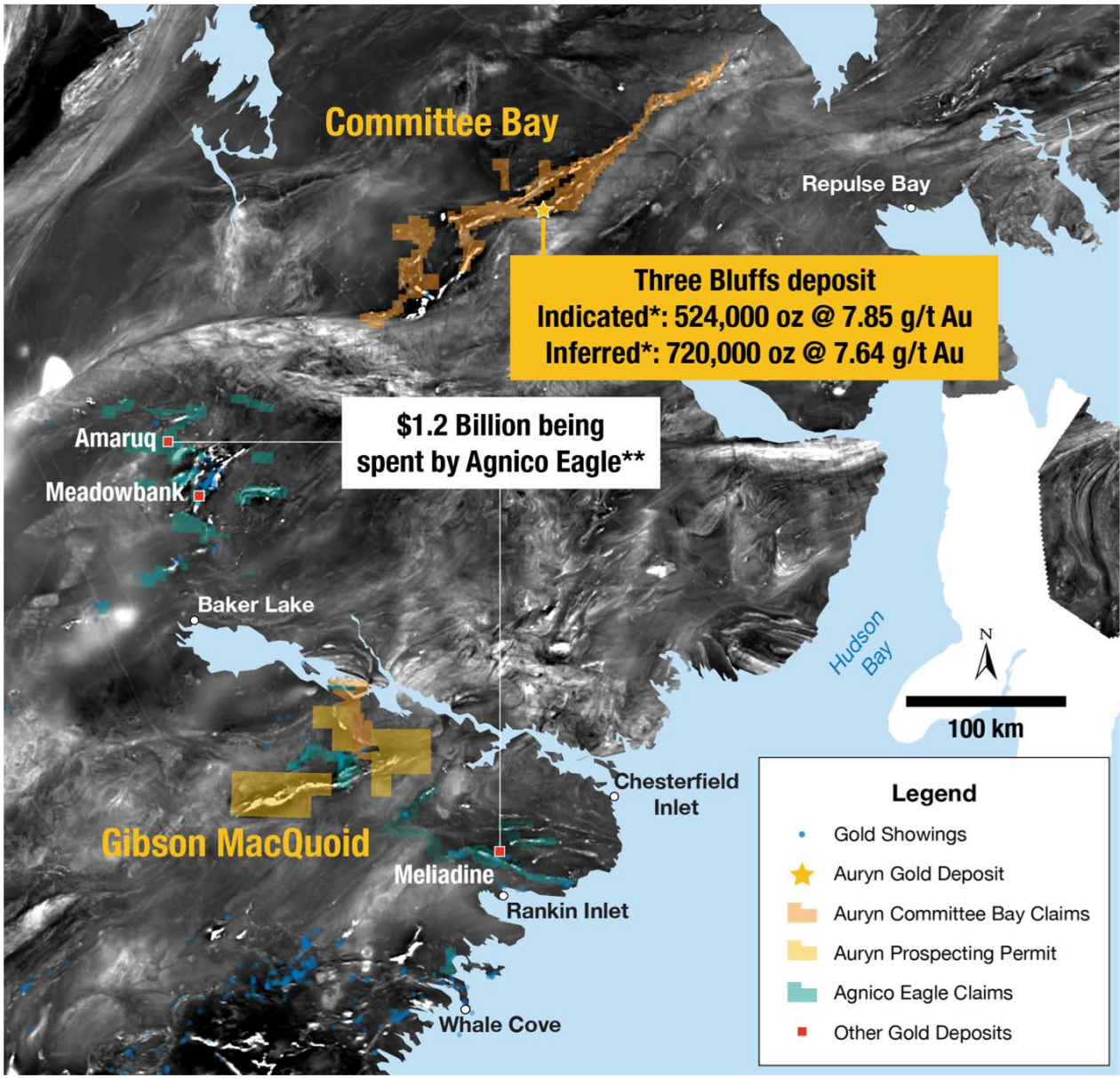
Nunavut, Canada –
The New Frontier for Major High Grade Gold Discoveries

Committee Bay

- 300 km strike length
- **Follow up drilling on Aiviq discovery 2018**
- Three Bluffs deposit currently being targeted

Gibson MacQuoid

- 120 km long strike length
- **Well situated between major deposits**
- 2018 summer surface program to delineate drill targets

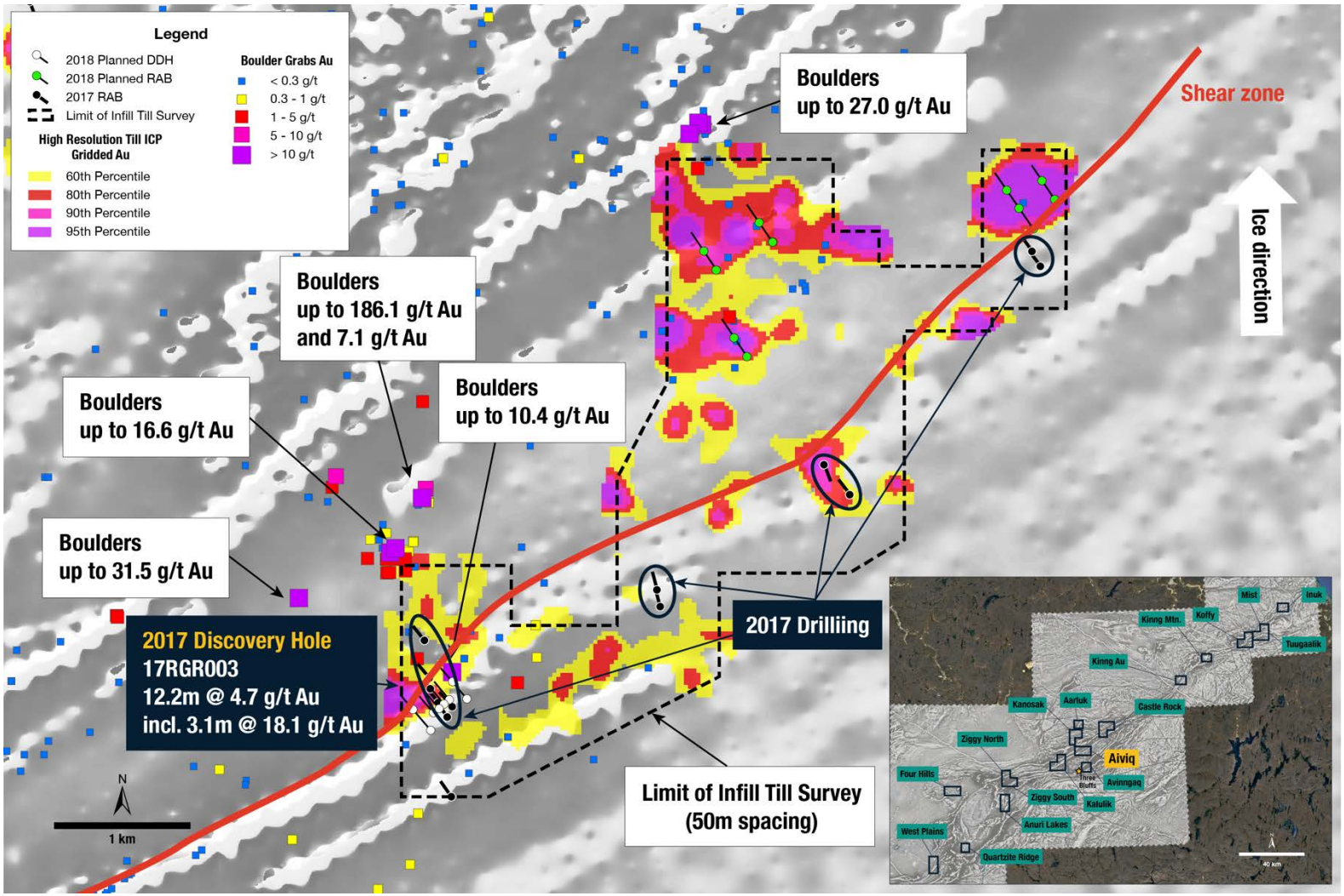


* Refer to NI43-101 report dated May 31, 2017 filed under Auryn Resources profile at www.sedar.com
** Source: Agnico Eagle video, Feb 16, 2017

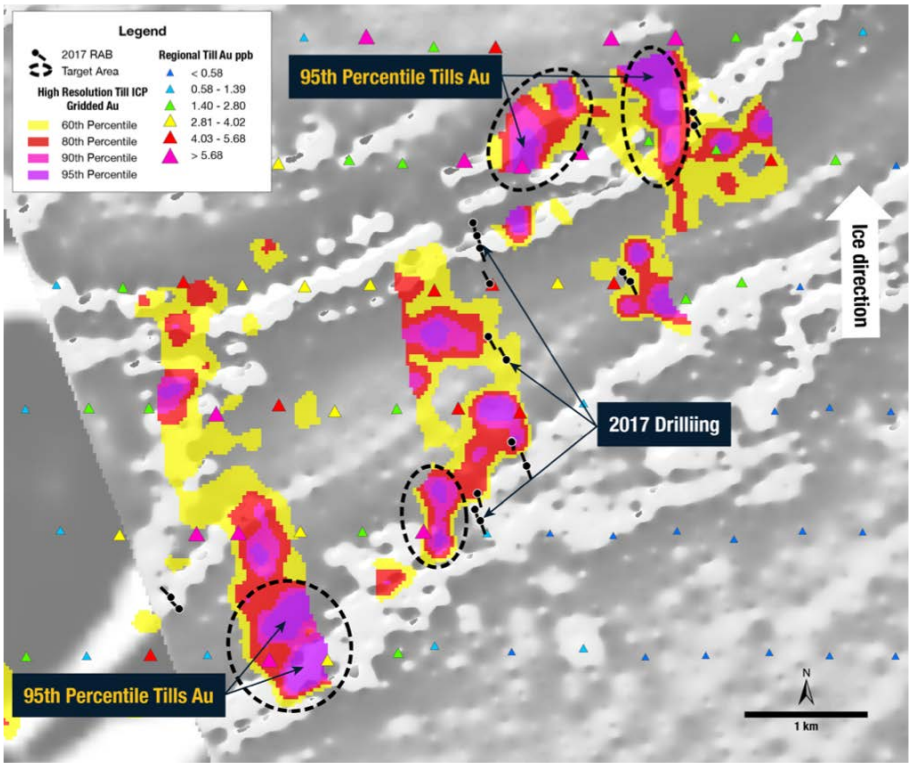
Refined Targets for Committee Bay 2018 – Aiviq

Aiviq discovery follow–up and exploration drilling plans

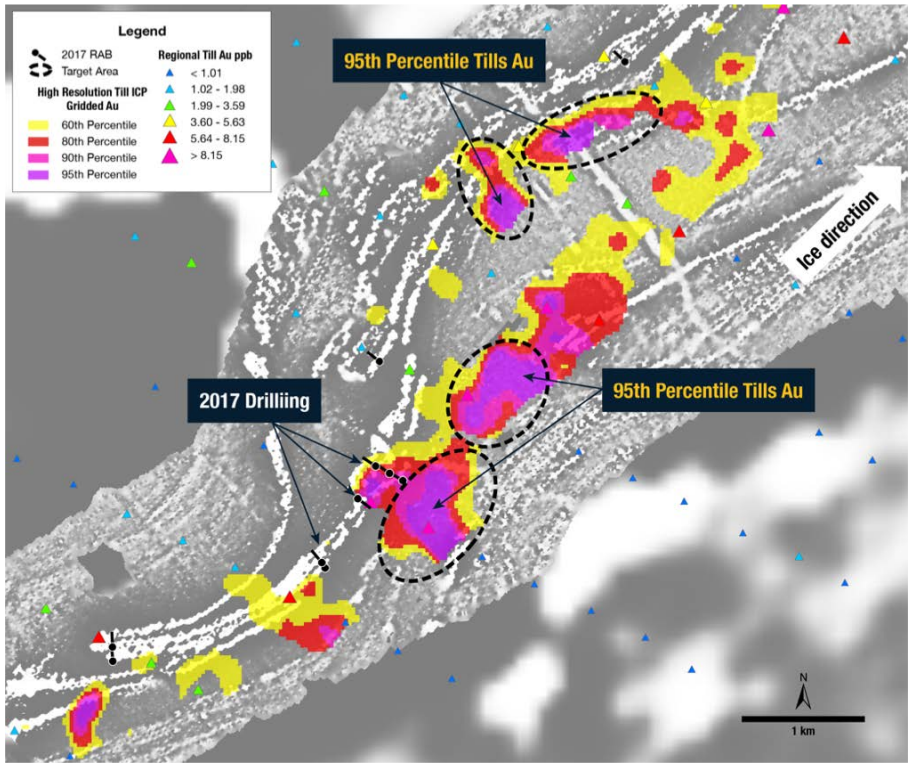
- **13 holes totalling 3250m (RC)**
- Discovery drill hole 17RGR003 **12.2m @ 4.7g/t Au**
- Progressive 25m, 50m, 100m step-outs along prospective stratigraphy, covering 350m potential deposit scale footprint
- **11 holes totalling 2750m (RAB) – on three targets**
- Strongly anomalous 100x100m spaced Au in infill tills
- Coincident with high grade (>10g/t Au) boulders down-ice
- Covers 2.5km of strike along 2 prospective NE trends



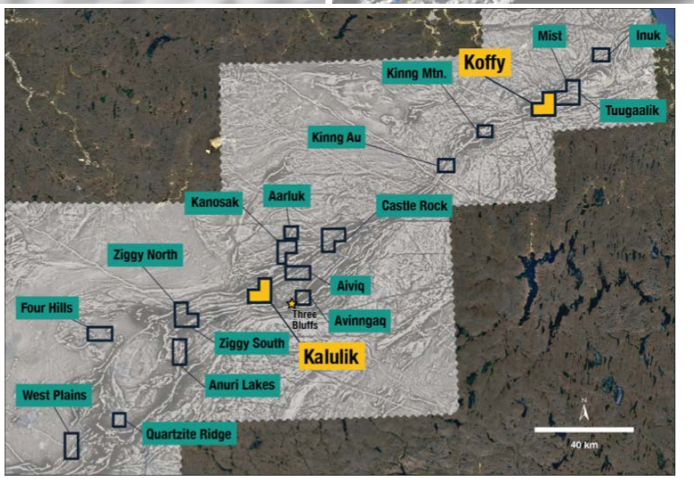
High Resolution Tills and Refining Targets – Kalulik & Koffy



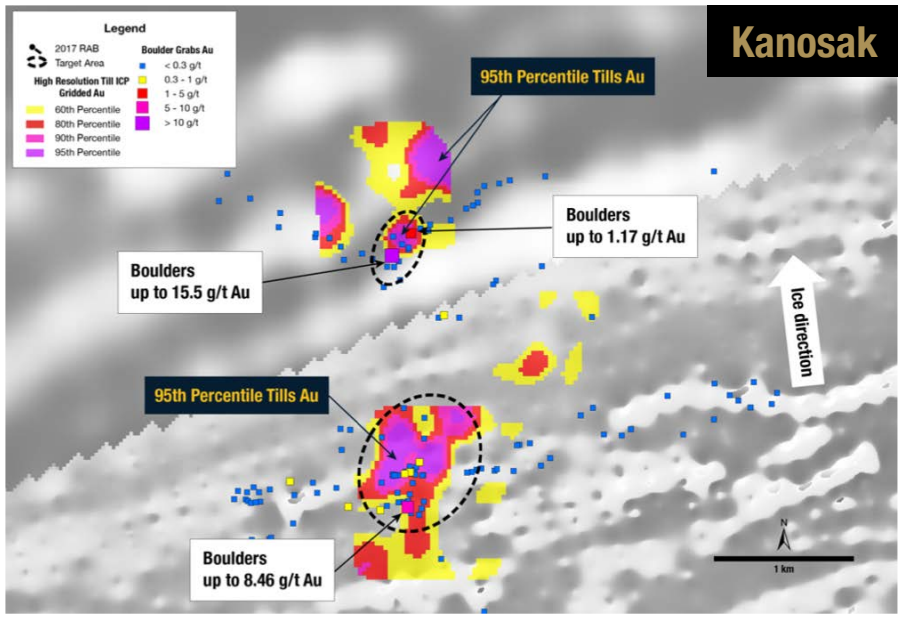
Kalulik

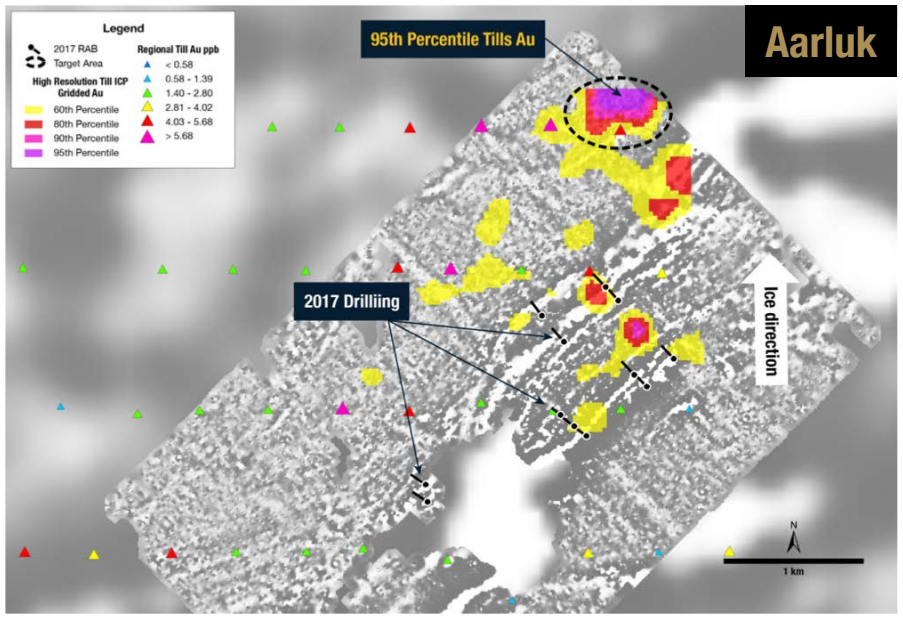


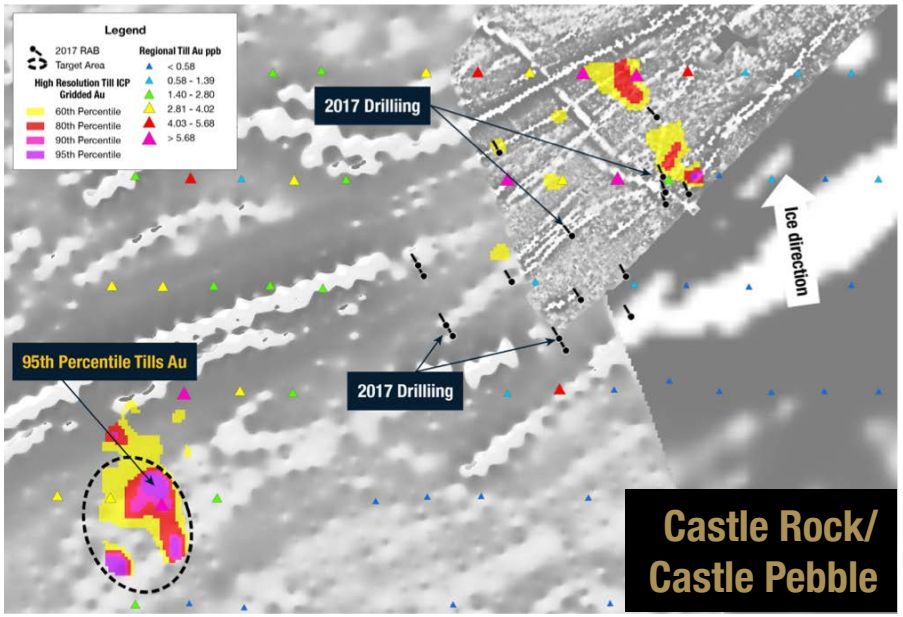
Koffy

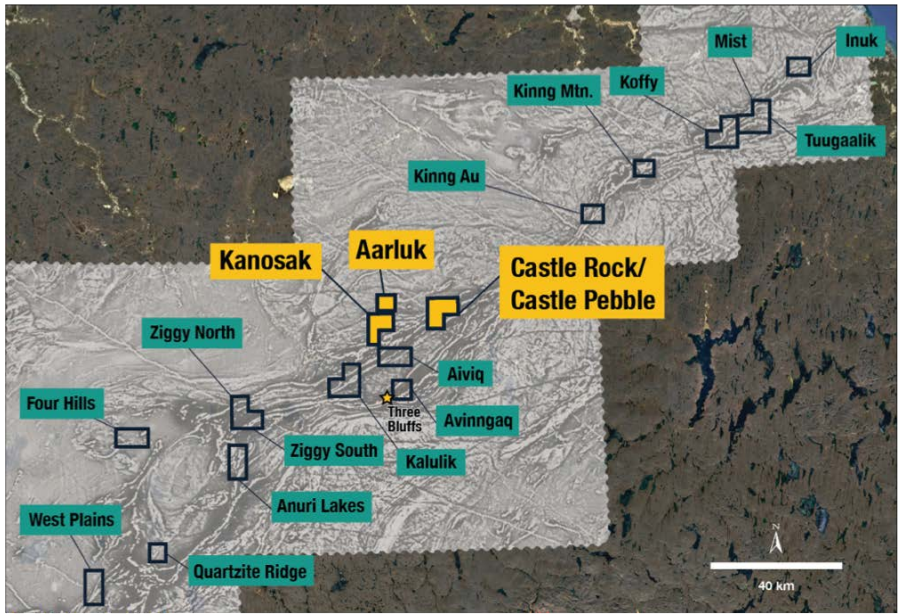


High Resolution Tills and Refining Targets – Kanosak, Aarluk & Castle Rock/Castle Pebble



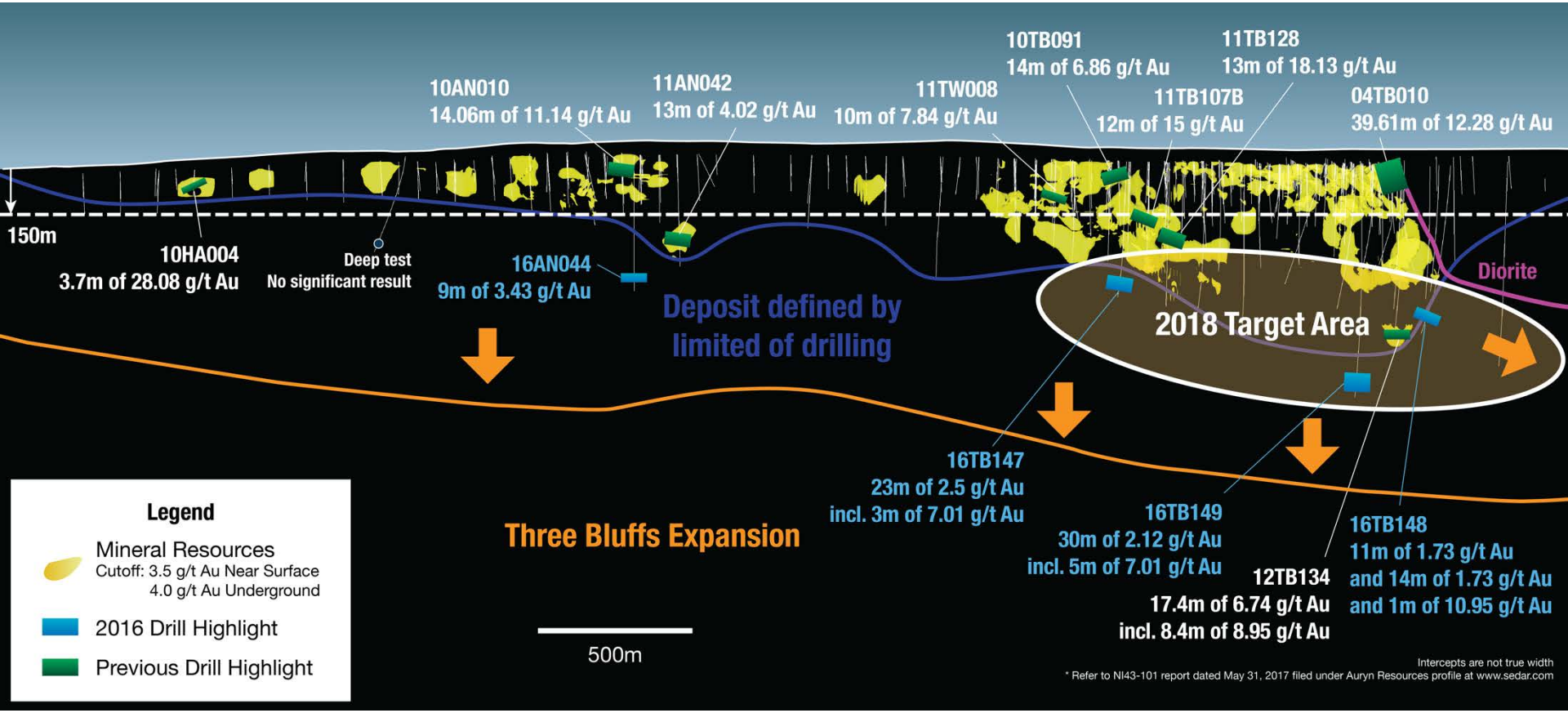




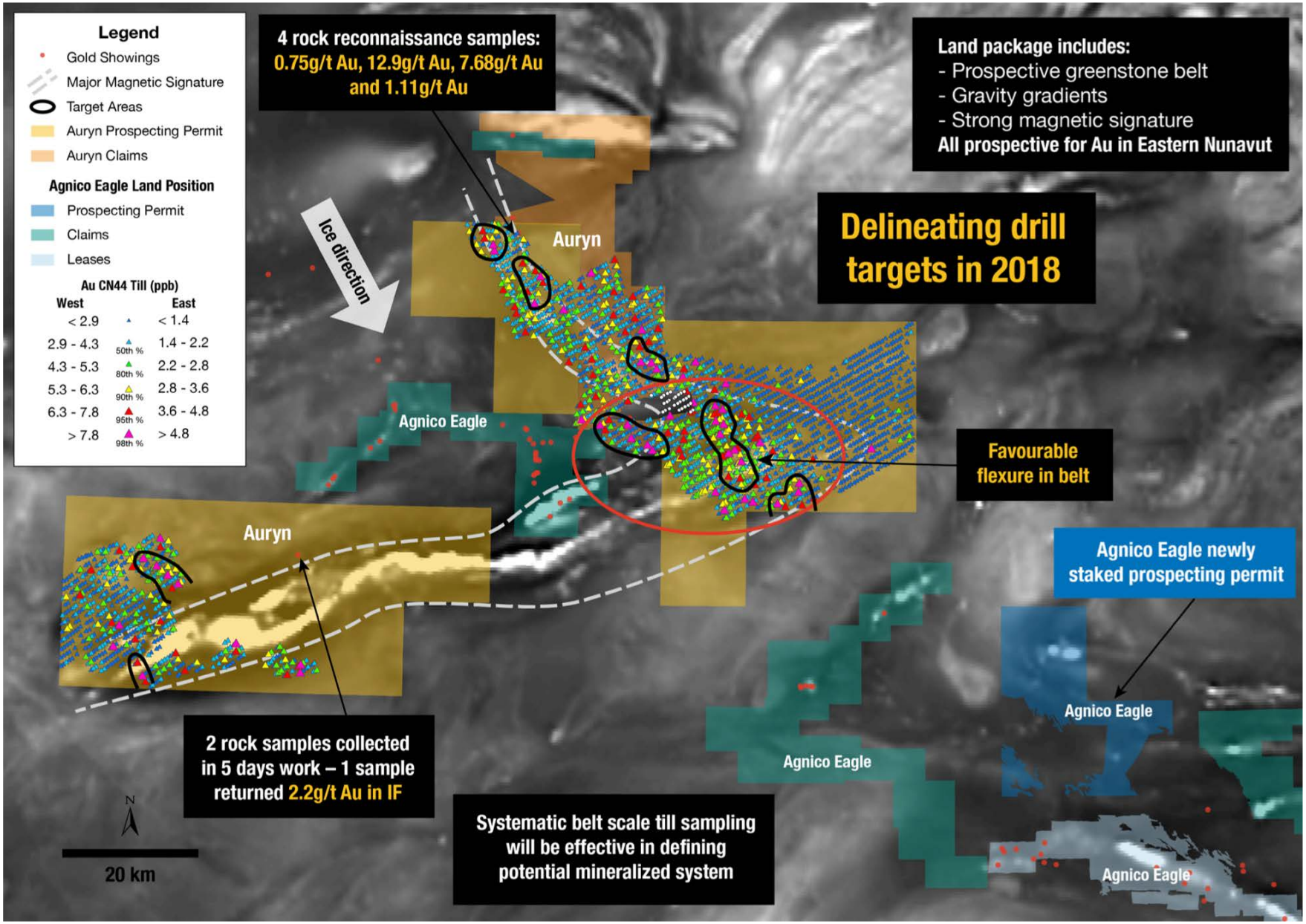


Three Bluffs 2018 Drill Target Area – 4000m Planned

Resource expansion to depth and along strike

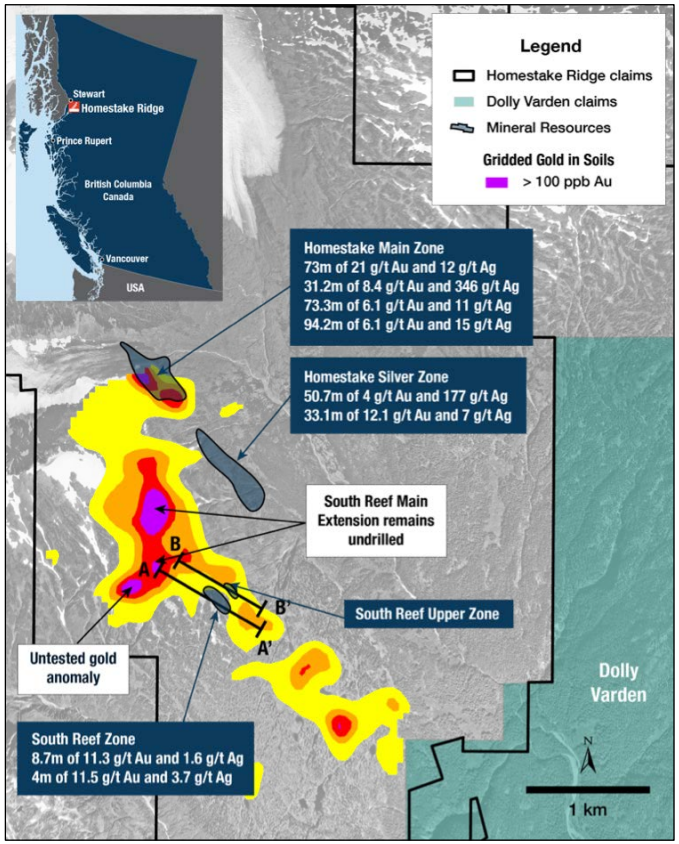


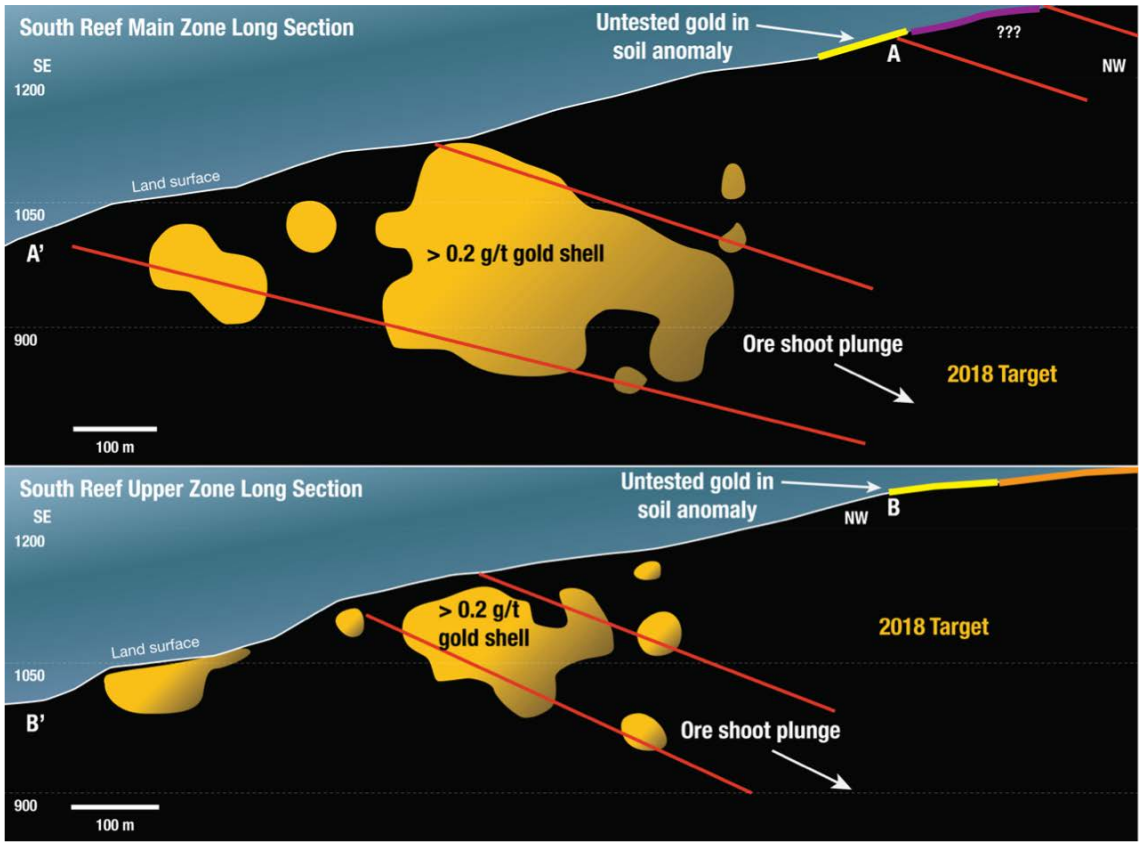
Gibson MacQuoid – Second Major Greenstone Belt



Homestake Ridge – Value with Growth

South Reef – High Grade Plunging North Ore Shoot

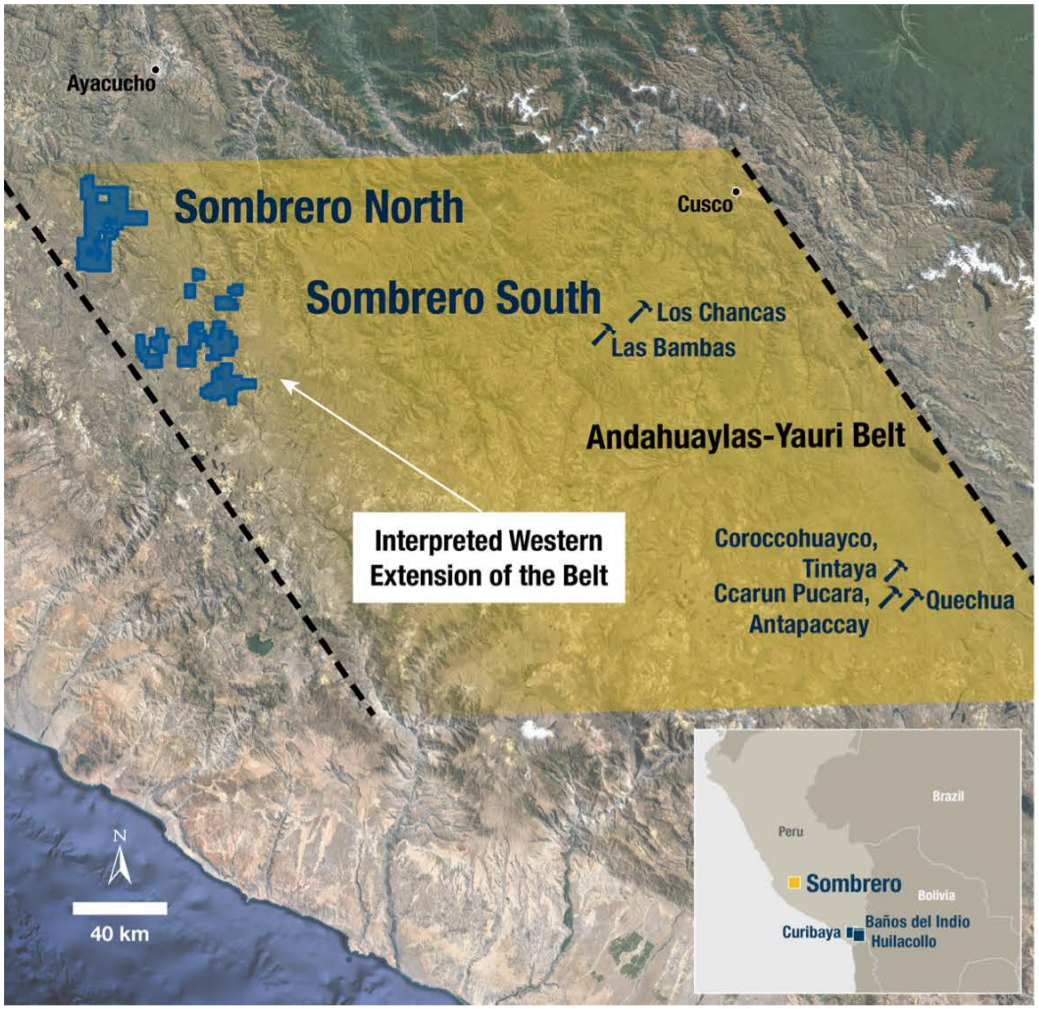


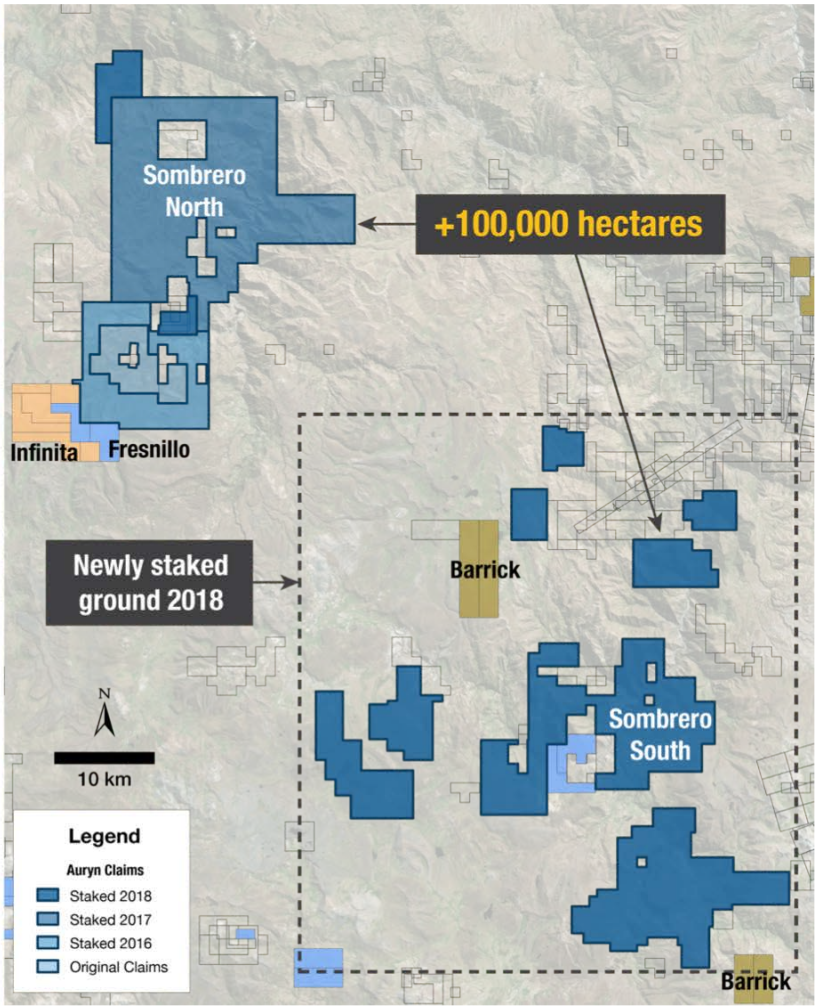


Southern Peru Portfolio = Endowment Potential

- Improved regulations for drill permitting
- Major oxide targets from surface
- Excellent access to infrastructure

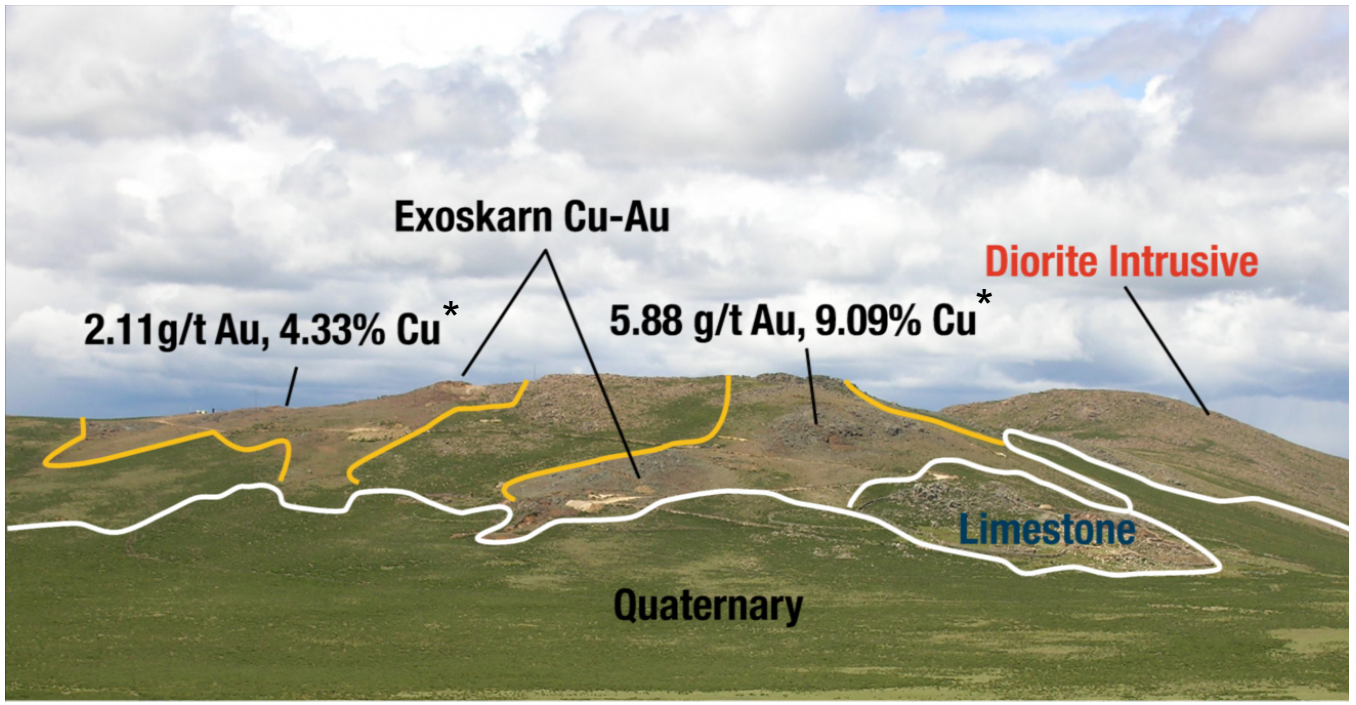
Sombrero District:
Cu-Au Porphyry Skarn & Precious Metal Epithermal Targets





Sombrero North = Major Discovery Opportunity

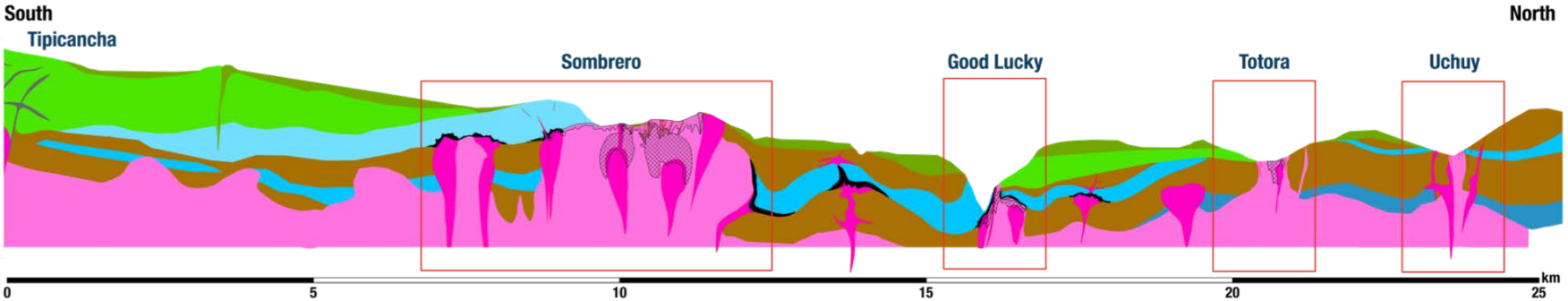
Hi-tensile power lines

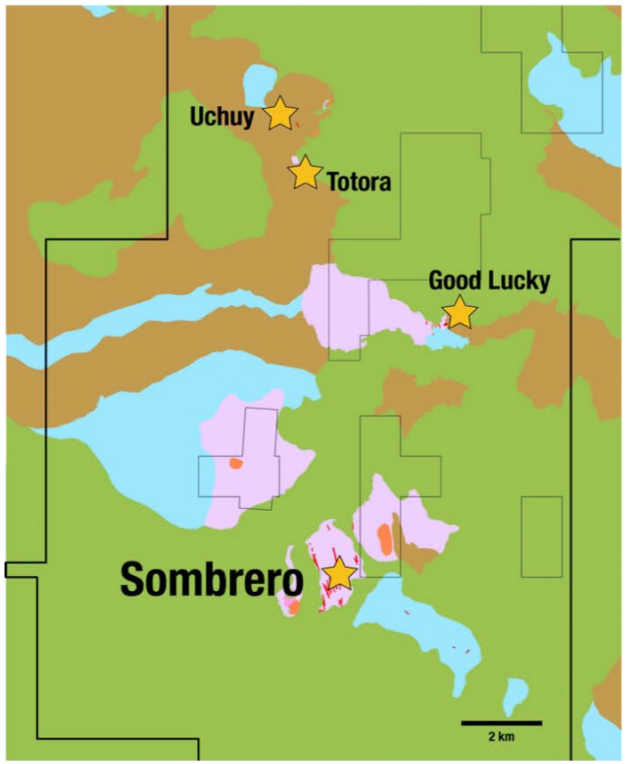


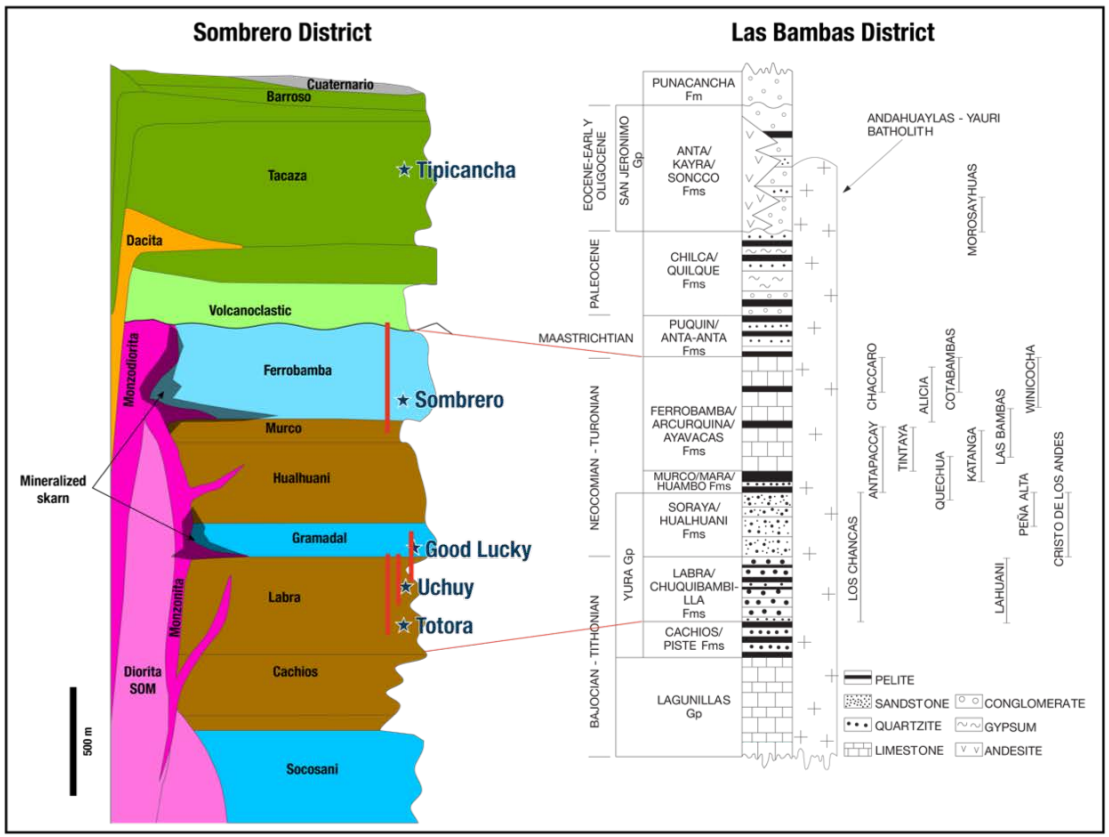
- Sombrero North project 47,320 hectares covering multiple skarn and epithermal bodies
- Excellent access to infrastructure
- Impressive skarns surface geochemistry
- Extensive copper-gold skarn system hosted by limestones cut by intrusive stocks
- Ground magnetics and IP completed – **Surface exploration underway**

* Grab samples collected by Alturas Minerals, refer to 43-101 report dated June 2010 as filed under Alturas Minerals' Sedar profile at www.sedar.com

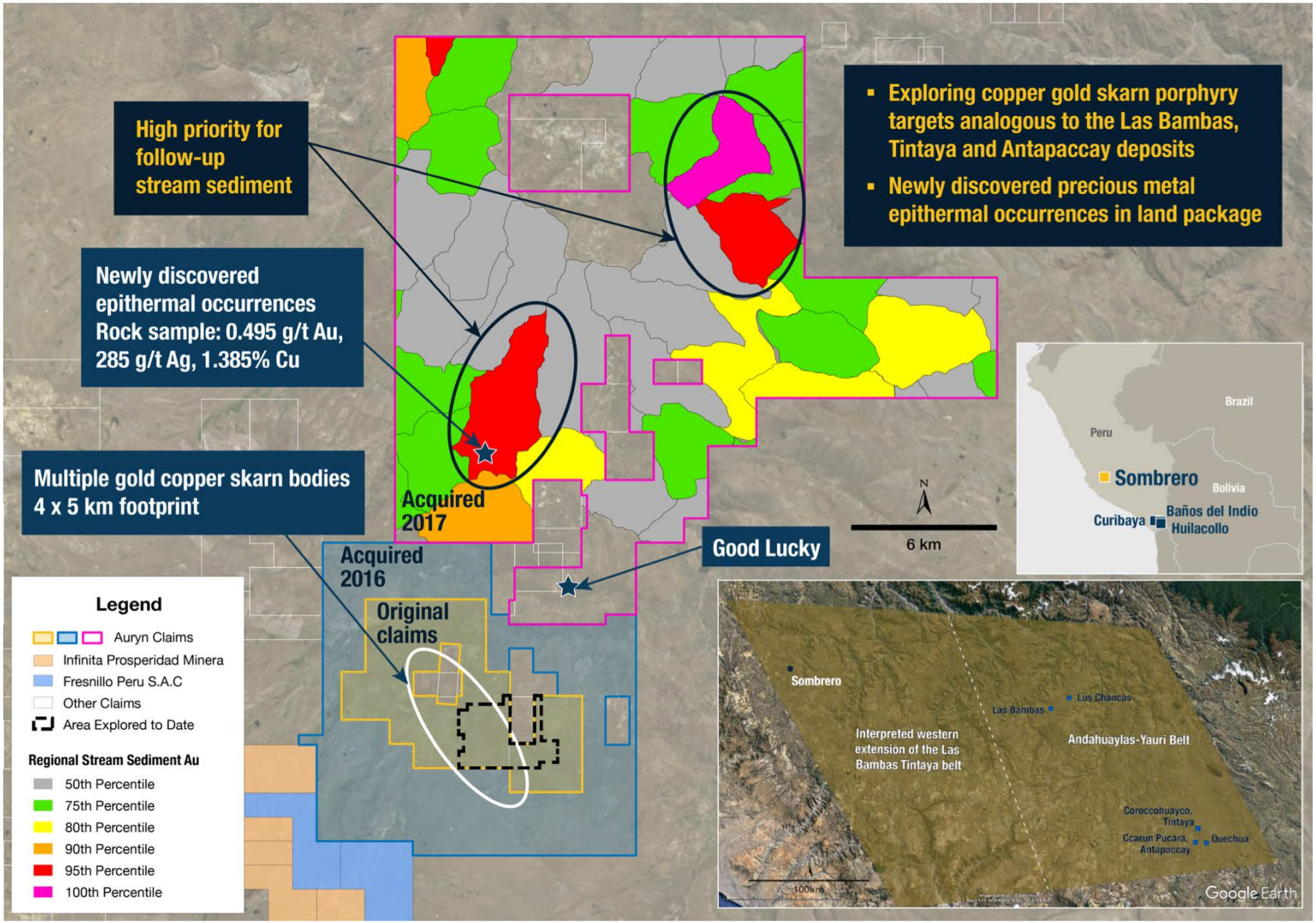
Sombrero District Comparison to Las Bambas District Equivalent Geology and Mineralization



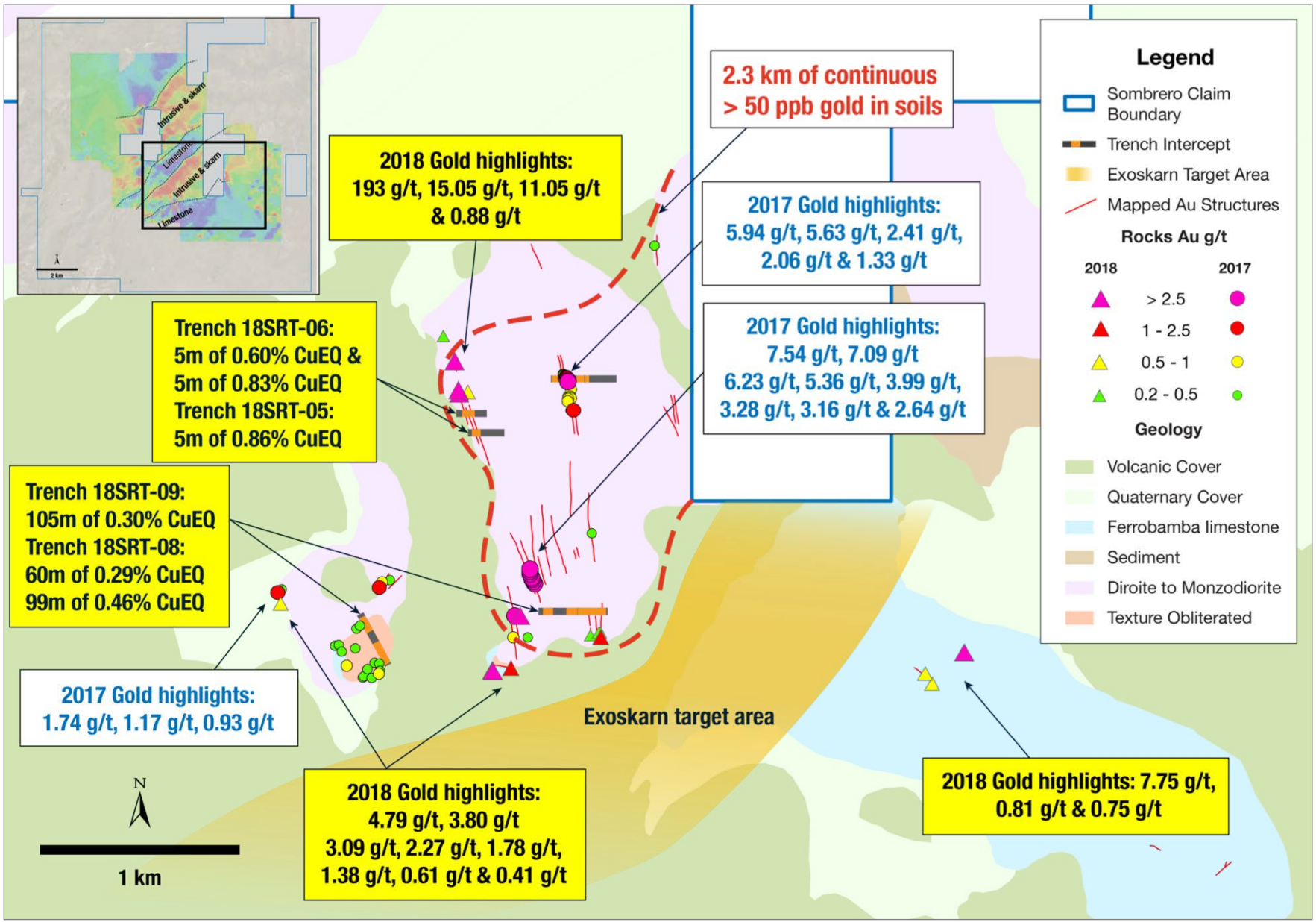




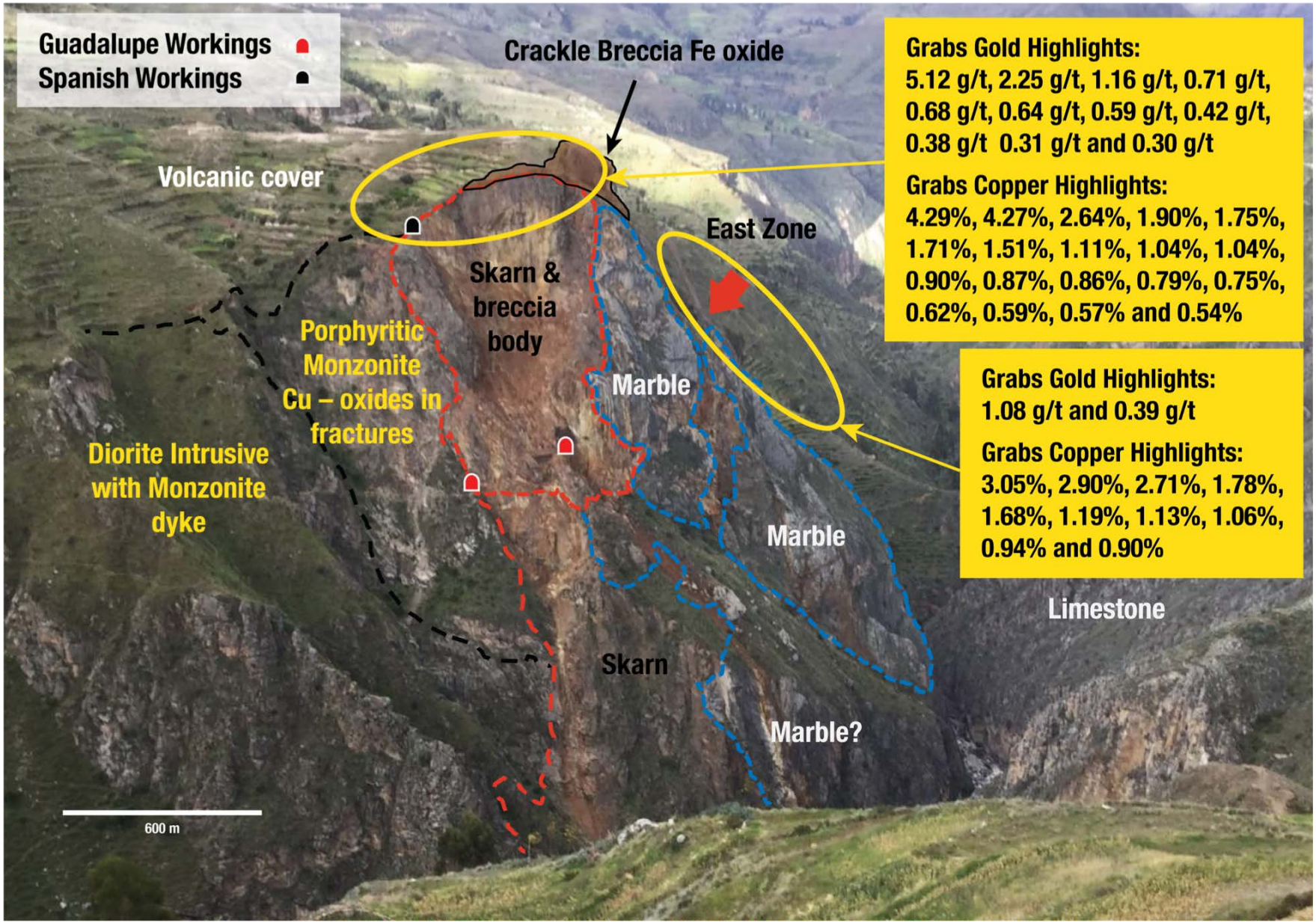
Sombrero North District 47,320 HA
Multiple Skarn, Porphyry and Epithermal Targets/Occurrences



Sombrero North – Structure, Grade and Scale



Good Lucky – Rock Sample Highlights



Totora – Rock Sample Highlights

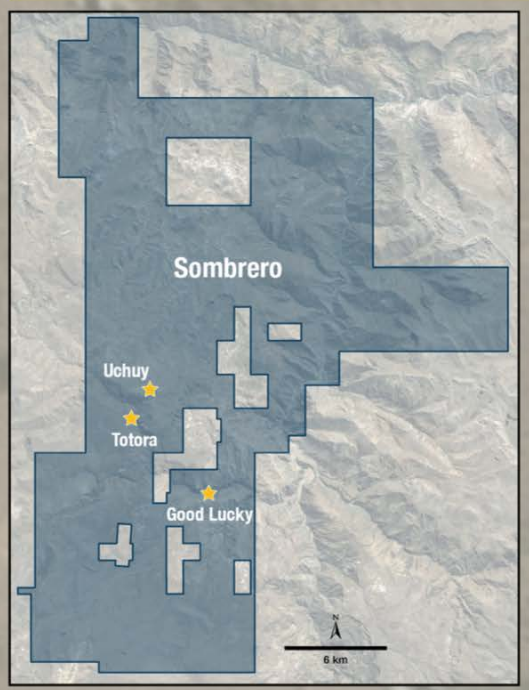
Totora 2018 Highlights

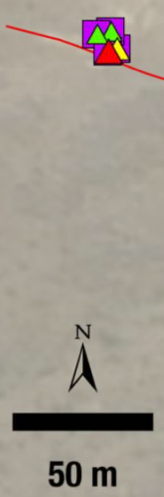
Gold

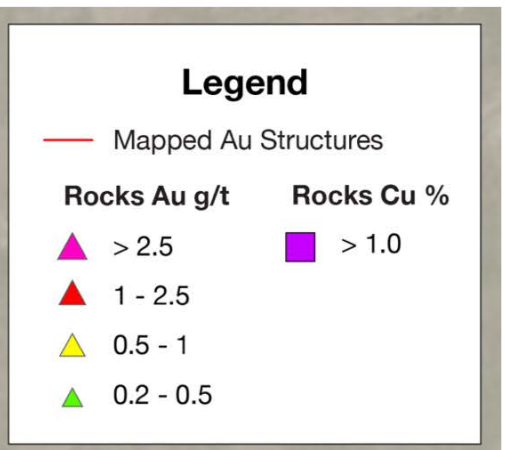
5.07 g/t, 1.08 g/t, 0.89 g/t, 0.76 g/t, 0.55 g/t, 0.40 g/t, 0.37 g/t, 0.33 g/t, 0.33 g/t, 0.23 g/t and 0.21 g/t

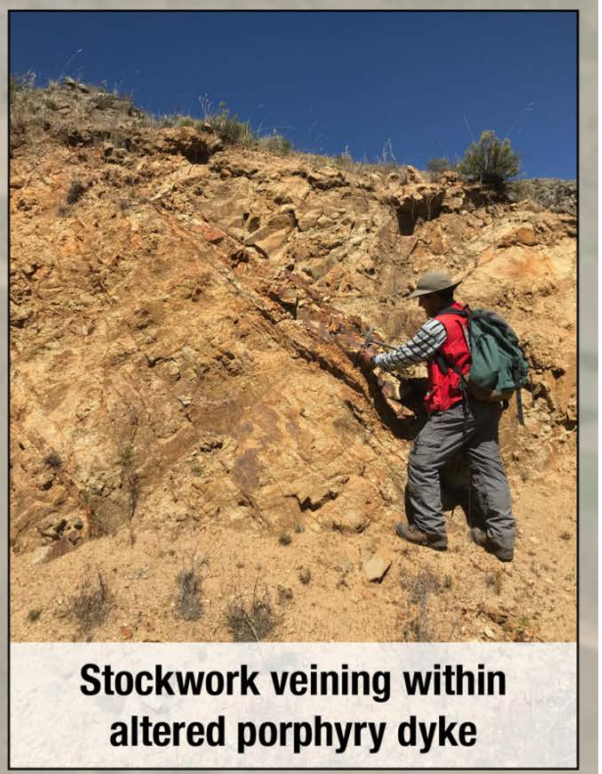
Copper

3.14%, 1.28%, 1.17%, 1.16%, 1.12% and 1.03%



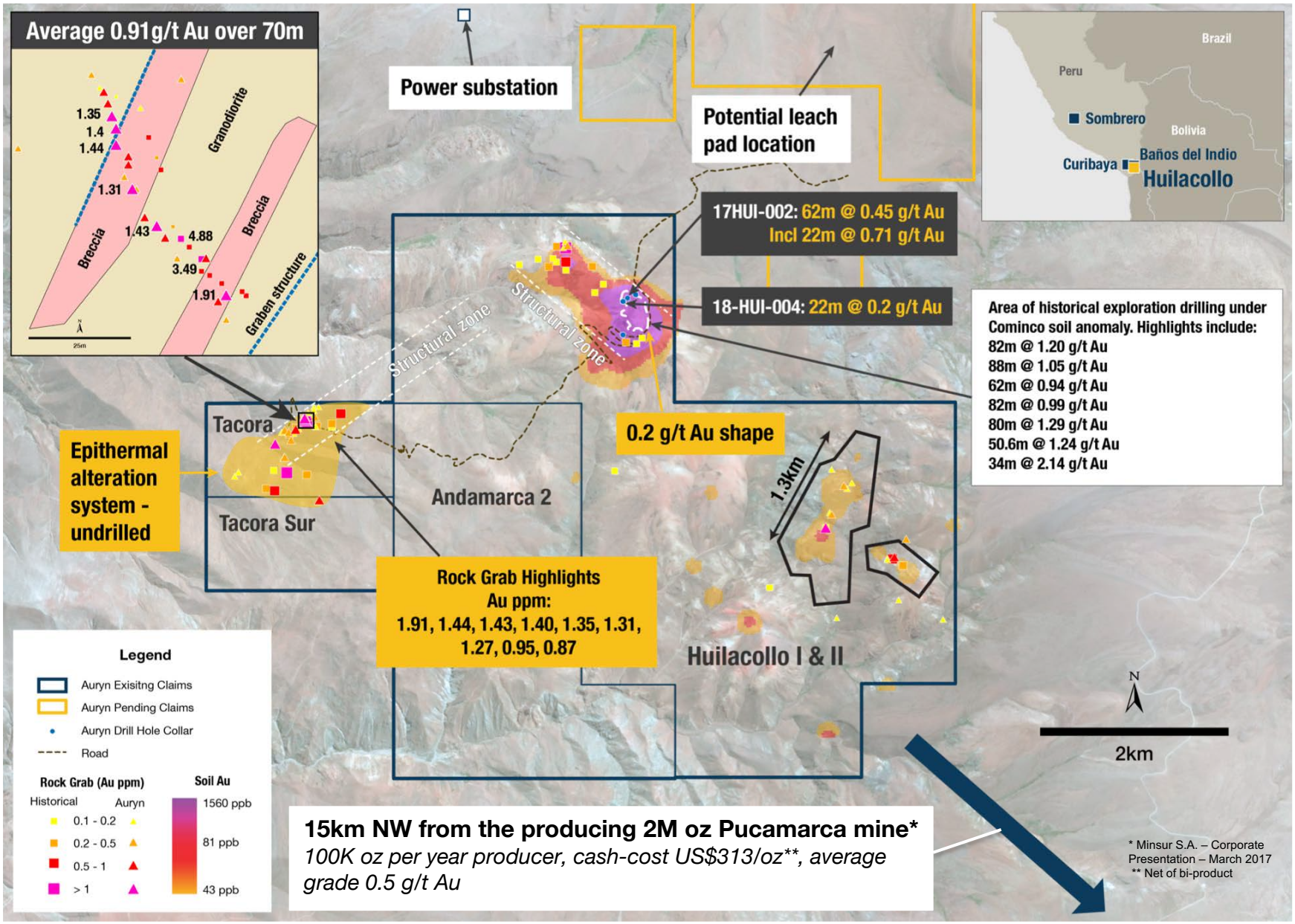






Stockwork veining within altered porphyry dyke

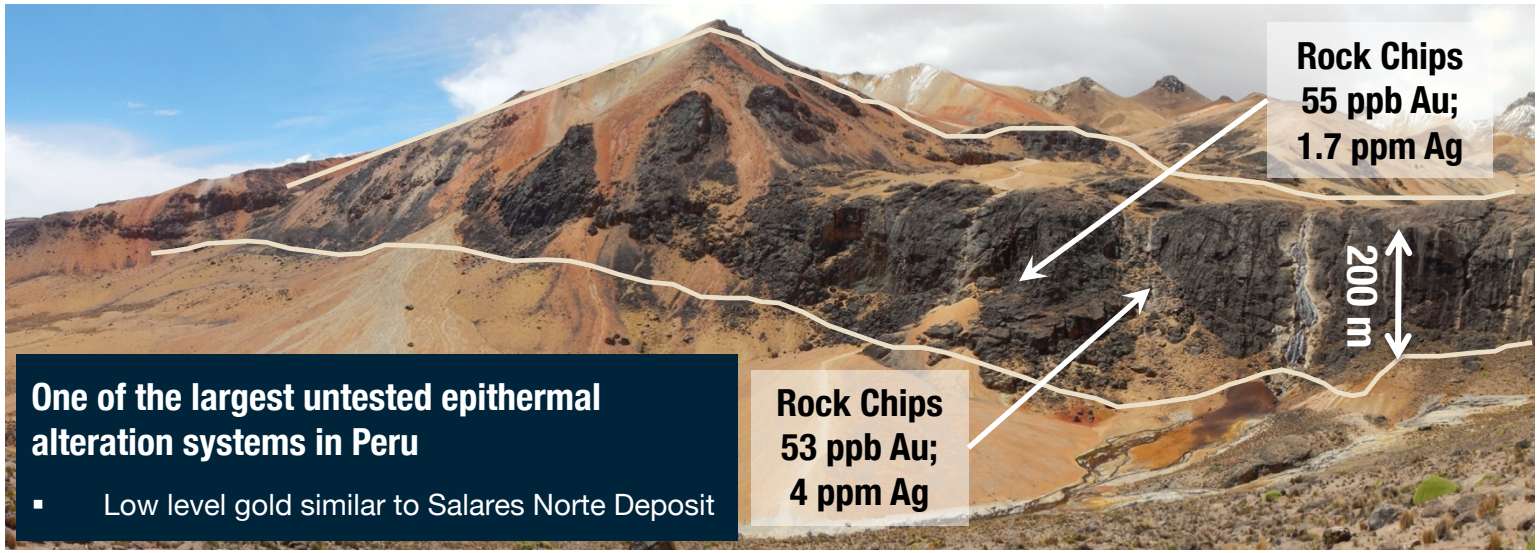
Huilacollo – Finding Ounces Next to a Producing Mine



15km NW from the producing 2M oz Pucamarca mine*
*100K oz per year producer, cash-cost US$313/oz**, average grade 0.5 g/t Au*

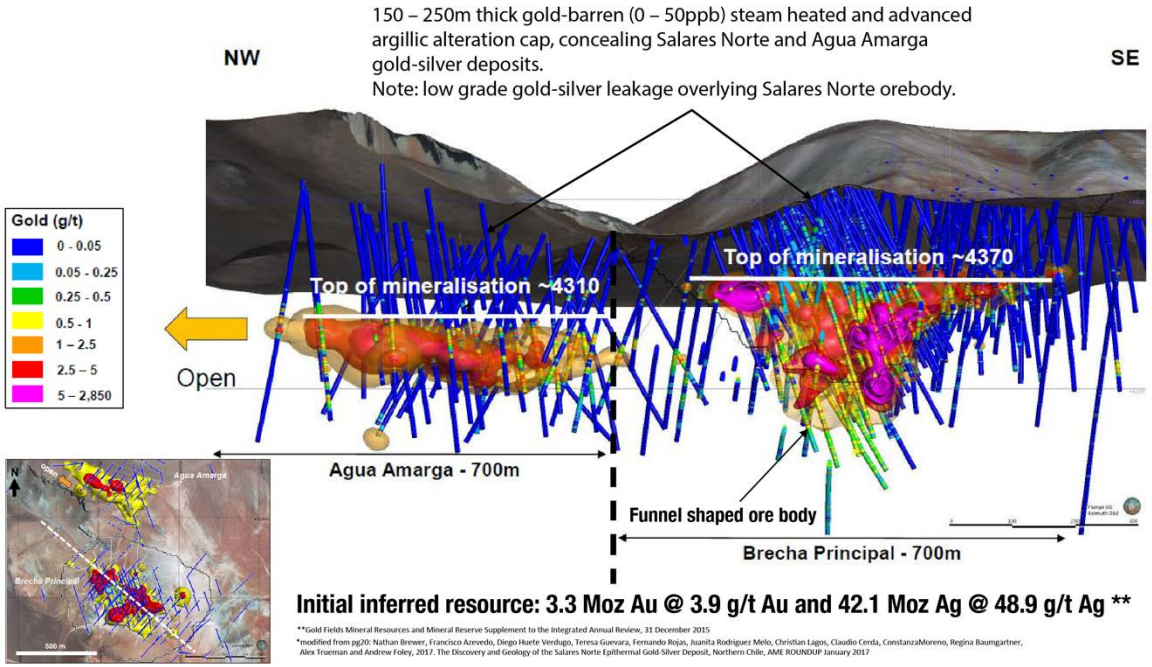
* Minsur S.A. – Corporate Presentation – March 2017
** Net of bi-product

Baños del Indio



Goldfields Salares Norte deposit: Analouge for Baños del Indio Project

Discovery beneath 150 – 250 meters of steam heated alteration with 0 – 50ppb Au



Analyst Coverage

“We see several properties that have potential for multi-million ounce deposits”
Michael Curran

“We look forward to a steady flow of potentially positive share price catalysts”
Ryan Walker

“Auryn’s attractive project portfolio distinguishes themselves from its peers”
Philip Ker

“…further drill results have the potential to provide a significant positive catalyst”
Joe Reagor

“We see Committee Bay as a district play with significant potential for additional discoveries”
Mick Carew

A Leading Exploration Company

- Major exploration projects
- Extensive technical team
- High degree of optionality
- Multiple 2018 catalysts underway
  - Continuous surface results from Sombrero
  - Committee Bay drilling July
  - Sombrero drilling Q4/Q1 2019

Committee Bay drilling

Appendix

1. Three Bluffs: Resources
2. Combined Main Homestake, Homestake Silver and South Reef Resources

Three Bluffs: Resources

May 2017 Resource

Class		Cut Off (g/t Au)	Tonnes (000 t)	Gold Grade (g/t Au)	Contained Gold (oz)
Indicated	Open Pit	3.0	1,760	7.72	437,000
	Underground	4.0	310	8.57	86,000
	Total		**2,070**	**7.85**	**524,000**
Inferred	Open Pit	3.0	590	7.57	144,000
	Underground	4.0	2,340	7.65	576,000
	Total		**2,930**	**7.64**	**720,000**

The Mineral Resource estimate prepared by RPA for the Three Bluffs deposit as of May 31, 2017. The Mineral Resource is based on work by RPA in 2013 and new cut-off grades based on updated metal price, exchange rate, and operating costs. Refer to NI43-101 report dated May 31, 2017 filed at www.sedar.com

Notes:
1. CIM definitions were followed for Mineral Resources.
2. Mineral Resources are estimated at cut-off grades of 3.0 g/t Au for open pit and 4.0 g/t Au for underground.
3. Mineral Resources are estimated using a long-term gold price of US$1,200 per ounce, and a US$/C$ exchange rate of 1:25.
4. Nominal minimum mining widths of five metres (open pit) and two metres (underground) were used.
5. Numbers may not add due to rounding.
6. Cautionary note to United States investors concerning estimates of measured, indicated and inferred resources estimates, please see Disclaimer in this presentation

Combined Main Homestake, Homestake Silver and South Reef Resources

September 2017 Resource

Cut-off (g/t AuEq)	Tonnage (Mt)	Gold (g/t)	Gold (oz)	Silver (g/t)	Silver (M oz)	Copper (%)	Copper (M lb)
Total Indicated							
5.0	0.274	10.44	92,000	86.7	0.8	0.25	1.5
4.0	0.357	8.95	103,000	70.4	0.8	0.23	1.8
3.0	0.482	7.44	115,000	57.1	0.9	0.21	2.2
2.0	**0.624**	**6.25**	**125,000**	**47.9**	**1.0**	**0.18**	**2.4**
1.0	0.666	5.93	127,000	46.3	1.0	0.17	2.5
Total Inferred							
5.0	2.283	7.91	581,000	164.5	12.1	0.15	7.7
4.0	3.170	6.64	676,000	138.3	14.1	0.13	9.2
3.0	4.522	5.38	783,000	117.1	17.0	0.11	11.3
2.0	**7.245**	**4.00**	**932,000**	**90.9**	**21.2**	**0.11**	**16.9**
1.0	8.169	3.67	964,000	85.7	22.5	0.10	18.2

The Mineral Resource estimate prepared by RPA for the Homestake deposit as of September 29, 2017. Refer to NI43-101 report dated September 29, 2017 filed at www.sedar.com

Notes:

- CIM definitions were followed for Mineral Resources
- Mineral Resources are estimated at a cut-off grade of 2.0 g/t AuEq
- Assumptions to calculate AuEq values are described below in the text of this report
- Mineral Resources are estimated using a long-term gold price of US$1,300 per ounce, and a US$/C$ exchange rate of 1.2
- A minimum horizontal width of two metres was used
- Bulk density ranges from 2.66 t/m^3 to 2.85 t/m^3 depending on the domain
- The Homestake Ridge project is subject to a 2% NSR of which, on a portion of the property, this NSR is buyable for $1,000,000 at anytime
- Cautionary note to United States investors concerning estimates of measured, indicated and inferred resources estimates, please see Disclaimer in this presentation

Huilacollo, Peru

AURYN RESOURCES

TSX : **AUG**
NYSE American : **AUG**

600 -1199 West Hastings Street
Vancouver, BC, Canada V6E 3T5

Phone: 778.729.0600
Fax: 778.729.0650
Toll Free: 1.800.863.8655

Email: info@aurynresources.com
Web: www.aurynresources.com