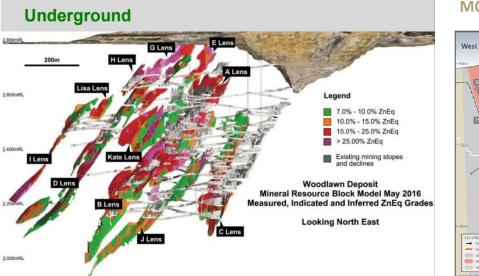


Wisemans Creek Gold + Base Metals Mines and Wines 2019

Glen Diemar, Denis Ryskal

September 2019



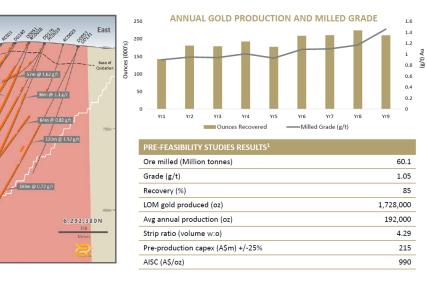
MCPHILLAMYS GOLD PROJECT

36m @ 1.1 g/t

0m @ 0.41 g/

- Gold Intercept

Gold Intercepts



The giant Woodlawn deposit 48km south of Goulburn is hosted by volcaniclastic rocks of similar age and character to the Oberon trend and both have similar surface expressions. Heron Resources Ltd (ASX:HRR) PDAC Presentation7th March 2017

McPhillamys 9km north of Blayney is hosted by volcaniclastic rocks of similar age and character to the Oberon trend and both have similar surface expressions. Mineral Resources 2.31Moz Au Ore Reserve 2.03Moz Au

What is the difference between Woodlawn/McPhillamys and Wisemans Creek? No ore since 1911





Gold-Rich Siluro-Devonian Volcanic Belt NSW Australia

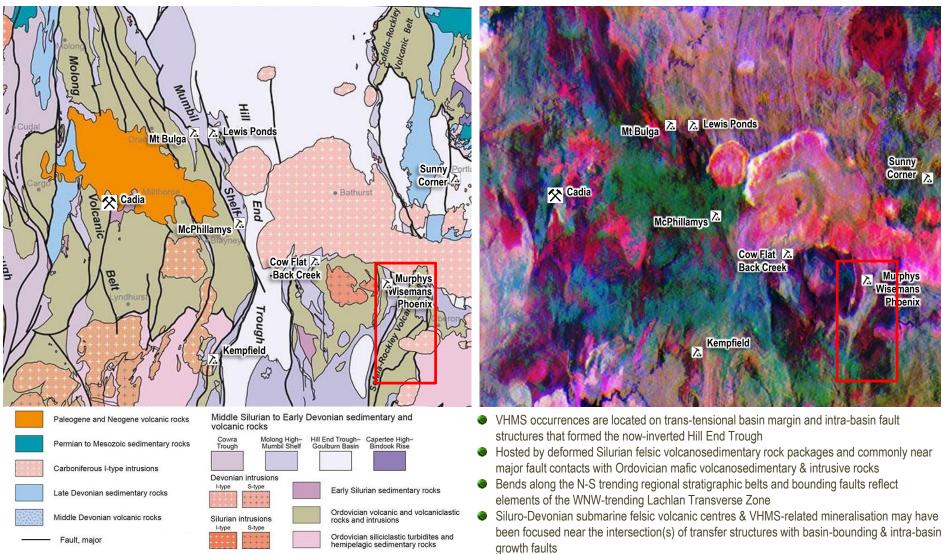
140km from the Workforce of Western Sydney 20km from Bathurst and Oberon



BATHURST REGION General Geology & VHMS Occurrences (Downes & Blevin, 2013)

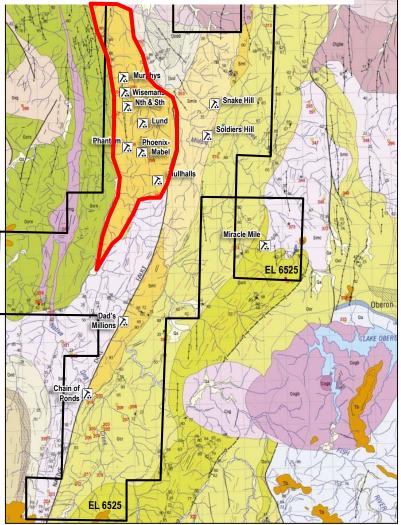
Simplified Geology Map (2014) GSNSW

Radiometric Spectral Image_Total_KThU GSNSW

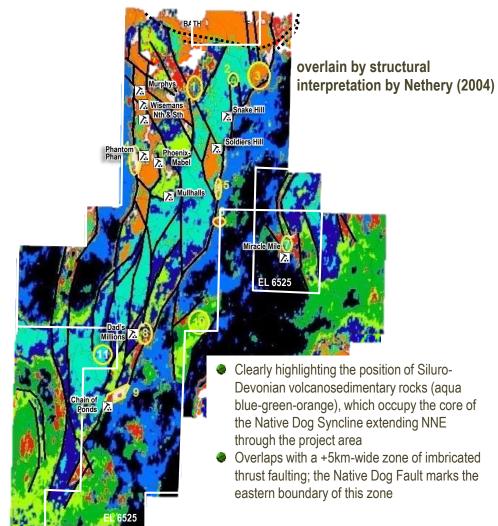


OBERON GOLD-PYRITE PROJECT Geology, Radiometric Image & VHMS Prospects

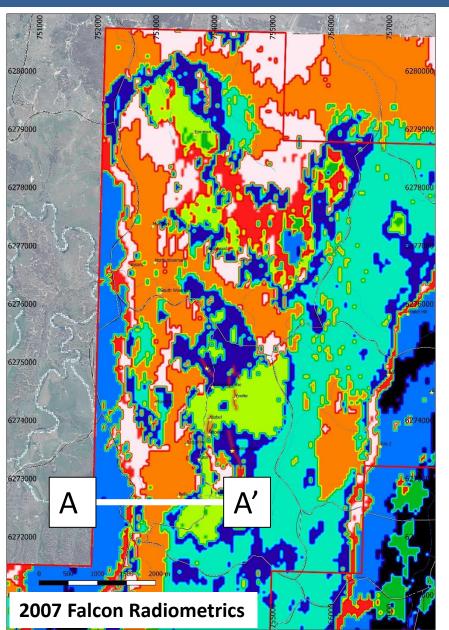
VHMS Target Belt- Bells Creek Volcanics (Red outline) on Regional Geology 100k Sheet (GSNSW)

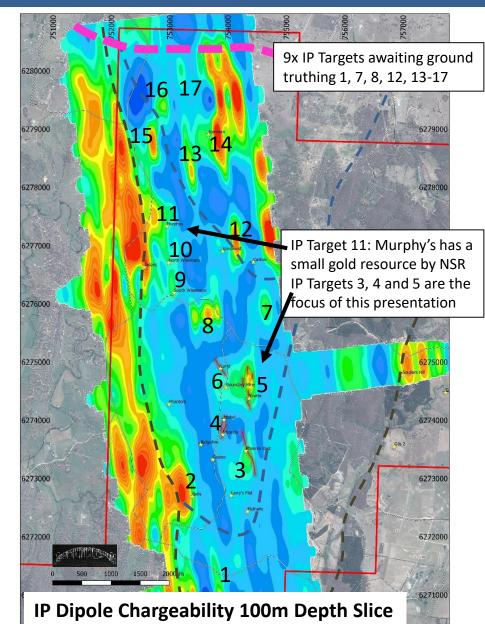


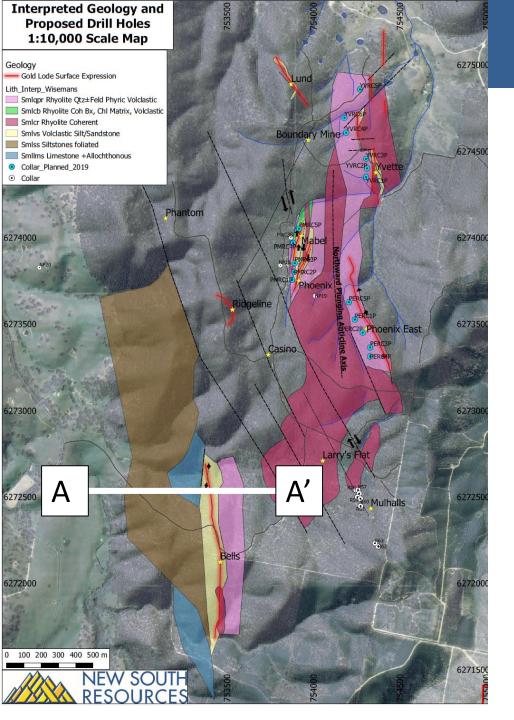
2D Radiometric SolidEarth[™] Image – Ternary K/Th/U



61 Line IP by EZ in 1964 – Reprocessed by Steve Collins ARCTAN Pty Ltd 9km Fertile Silurian Belt, Seventeen Chargeability Targets, Abundant Historic Mines







From West To Centre





Ordovician - Silurian boundary Drill Hole NP20at 552ft depth. Carbonates, marls and siltstones.









Competent bedded silicified siltstone breccia within matrix of chlorite altered fiamè breccia, highly sheared, strong silica + chlorite alteration.







Quartz ± feldspar phyric volcaniclastic



Coherent rhyolite is intensely quartzpyrite altered and often fractured



Coherent rhyolite breccias, intense silica-pyrite altered. Top right image is on margin of coherent body in contact with foliated volcaniclastics



Felsic sandstone and siltstone. Host to base-metal mineralisation



Date & Time: Wed Mar 20 13 16 16 AEDT 2019 Position: 55 S 753924 6274057 Altitude: 899m Datum: WGS 84 Azimuth/Bearing: 028° N78E 1387mils (Mson Zoom: 1X Mabel Southerne Open Pit North Watt Ofe Horizon Abundant FeOx Bx and Veins

Ecte & Time Wed Mar 2013:18:28 AEDT 2019 Position: 55 5759933 629/40/9 Attitude: 679m Datum: W@S-84 Azimuth/Bearing: C27° N27E 0480mils (Magnetic) Zoom: 1X Mabel Southern Open-Pit North Wall Ore Horizon Abundant FeOx Bx and Veins

im at 6.8g/t Au, 90 g/t Ag, 1.3%

1m at 3.7g/t Au, 91g/t Ag in Volc Clastic BX with 30m footwall of Strong Qtz Seri Py Altn

SIE AU

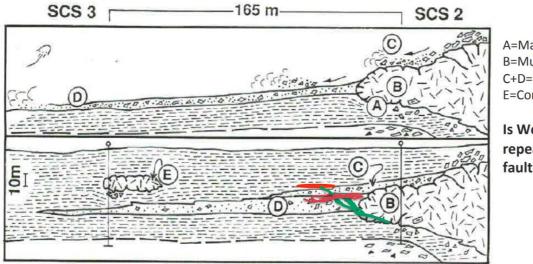
Phoenix Mine dump, banded sulphides 13% Zn 3% Pb, 3% Cu, 580g/t Ag, 1g/t Au

Similarities to Woodlawn

Proximal to Felsic Coherent Rocks Base-Metals



Proximity to Felsic Volcanic Centres: Woodlawn Model, Jones et al., (2015)



J McPhee, M Doyle, R Allen (1993) Volcanic Textures p67



Woodlawn, Jones et al., 2015

Phoenix NP19 315ft rhyolite lavas/domes.

A=Malone Mudstone B=Mullock Dump Rhyolite C+D=Debris Flows E=Core Yard Rhyolite

Is Woodlawn this diagram, repeated a few times and

faulted a bit?

Carlos Rosa PhD 2007;

immediately above the

At Neves Corvo mine, the

massive Sulphide ore deposits

are close to one of the felsic

volcanic centre(s), occurring

Facies Architecture of the Volcanic Sedimentary Complex of the Iberian Pyrite Belt, Portugal and Spain

Ьу

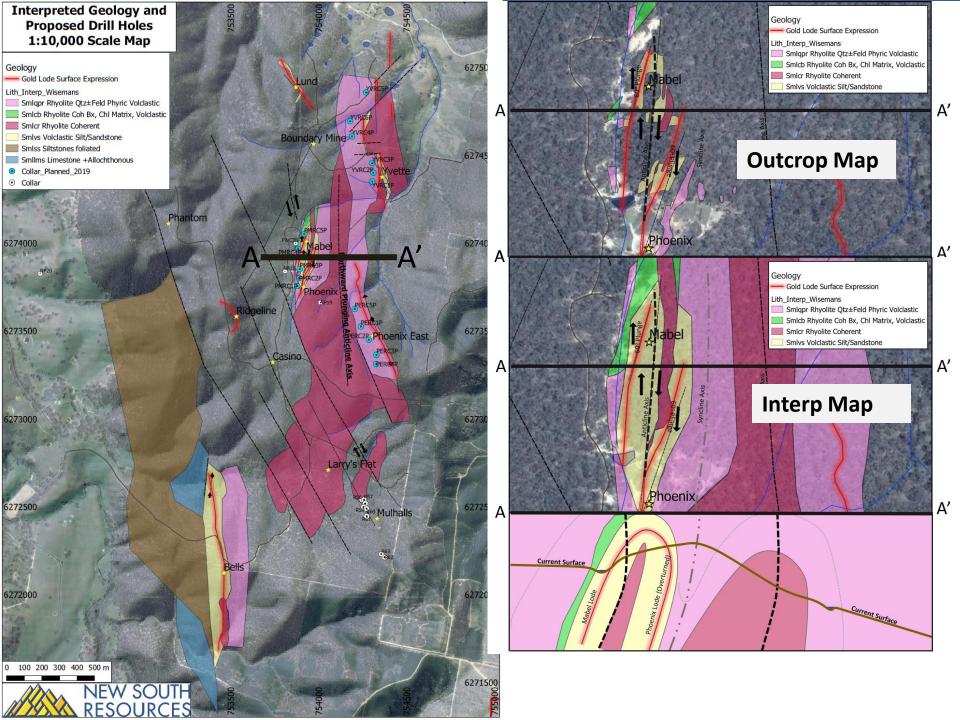
Carlos J.P. Rosa B.Sc. (Hons) University of Lisbon



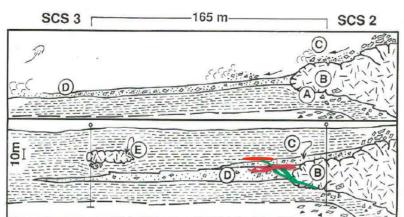
CODES

Submitted in fulfilment of the requirements for the degree of Doctor of Philosophy

> University of Tasmania Australia January, 2007



Coherent rhyolite margins shedding into Volcaniclastics

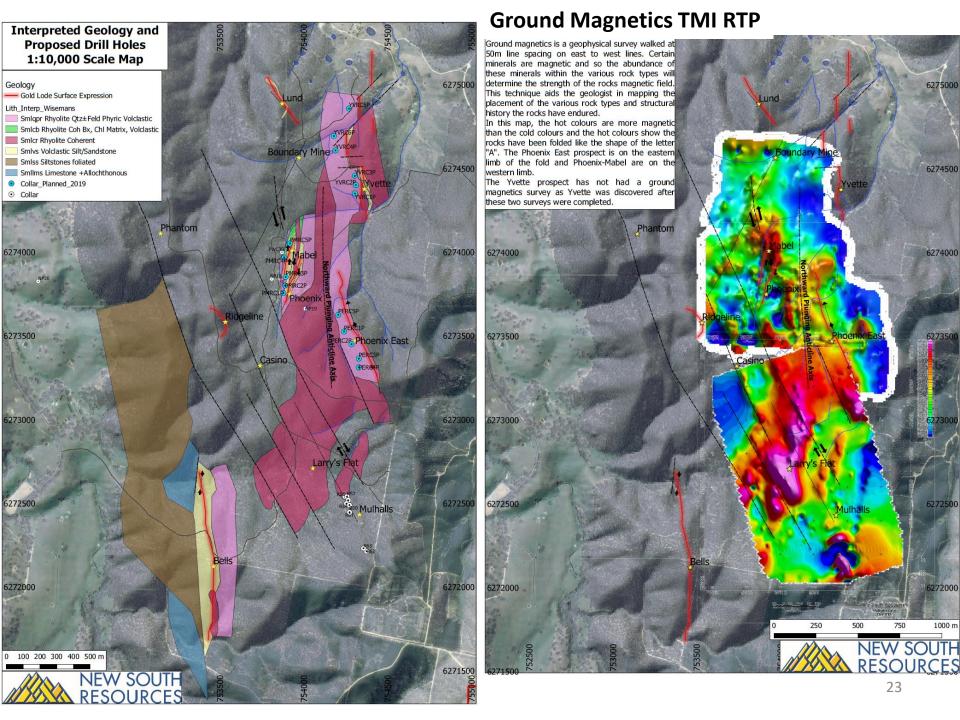


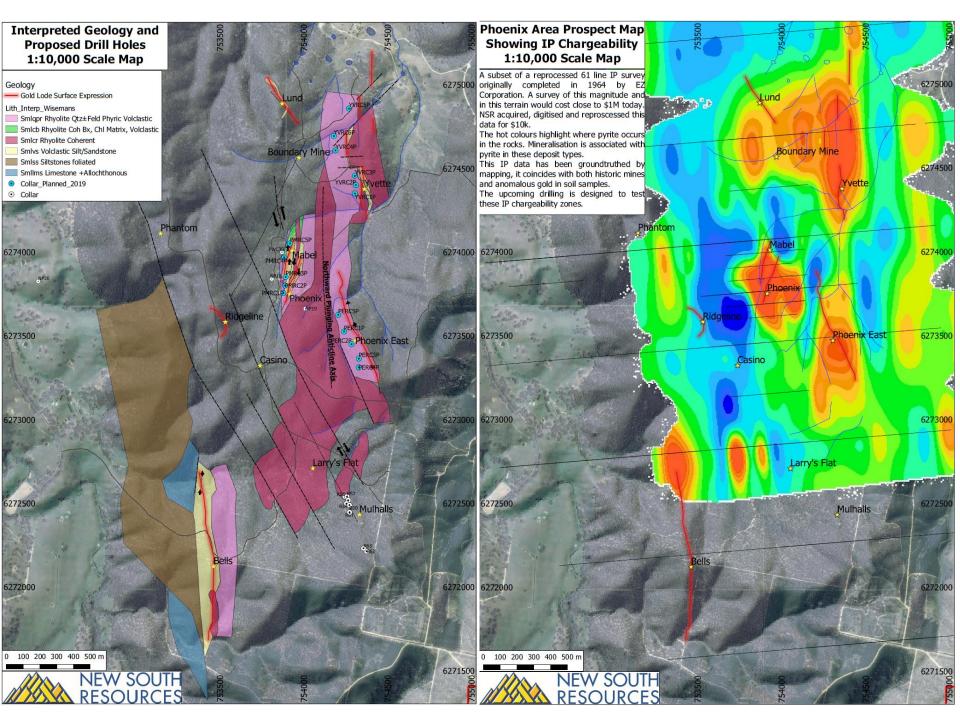
J McPhee, M Doyle, R Allen (1993) Volcanic Textures p67

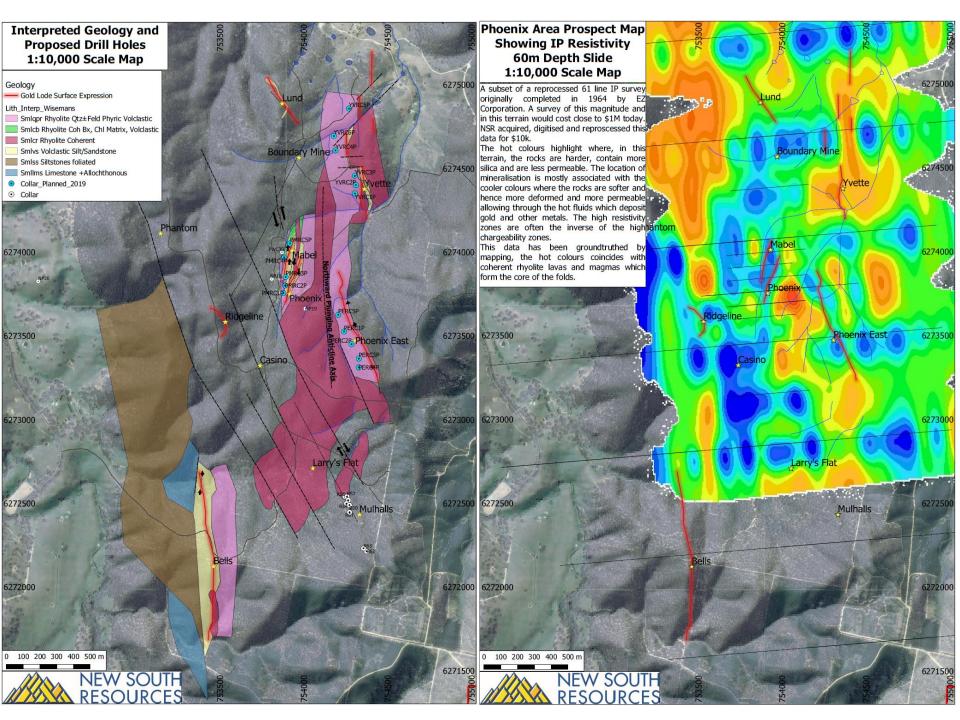
A=Malone Mudstone B=Mullock Dump Rhyolite C+D=Debris Flows E=Core Yard Rhyolite

Is Woodlawn this diagram, repeated a few times and faulted a bit?

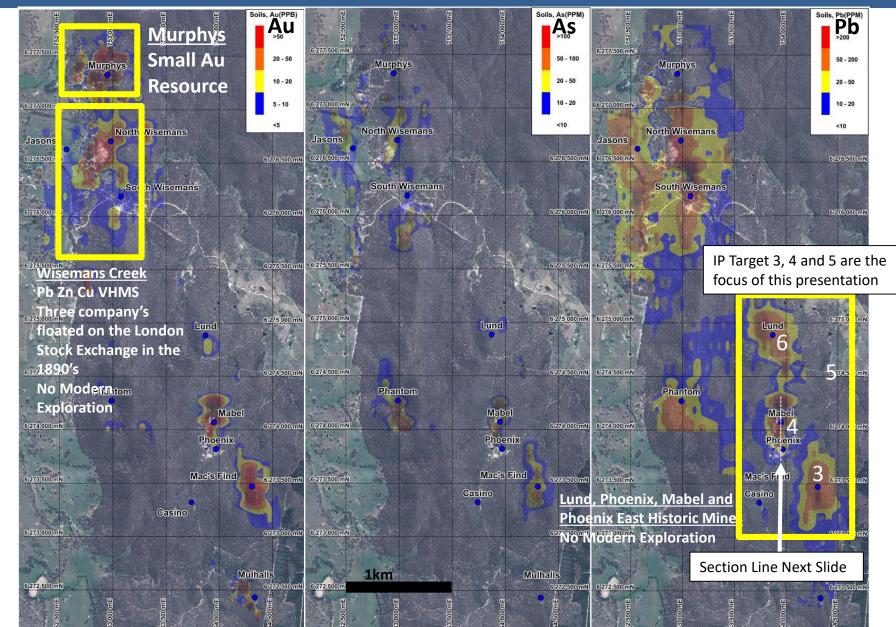




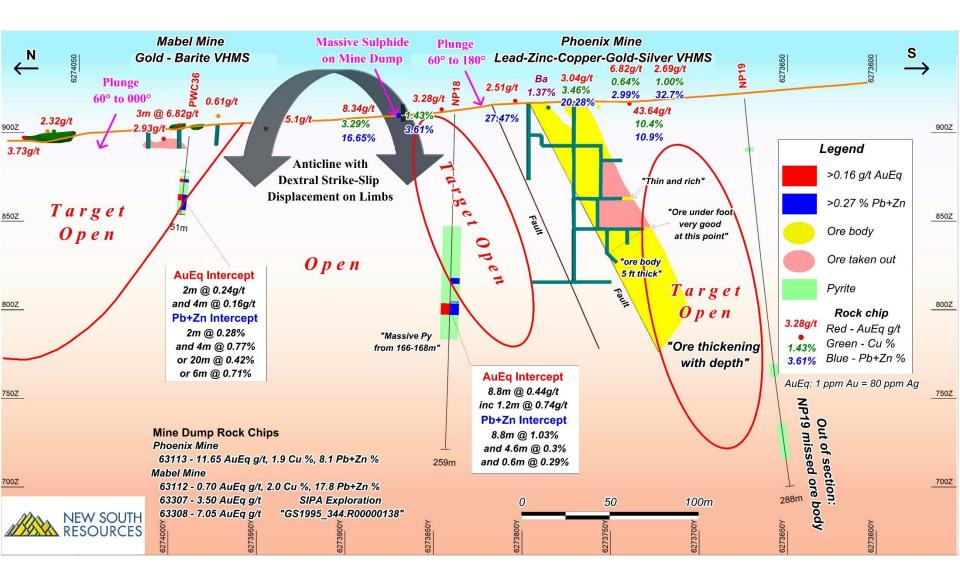




1995 Soil Survey Au As & Pb 6km Long Anomalies in Historic Mining Field Historic Mines, a JORC2012 Gold Resource and Quality Exploration Targets



Long Section: Phoenix – Mabel Historic Mines



Similarities to McPhillamys

High Strain Deformation Gold





2.3M oz McPhillamys – Regis Resources



Similarities include:

- 1. Foliated fine grained volcaniclastics
- 2. Intermitted medium-grained
- volcanic breccia clasts, also foliated
- 3. Green chlorite alteration
- 4. Cream sericite alteration



Target 4 Phoenix – New South Resources



2.3M oz McPhillamys – Regis Resources



Target 4 Phoenix – New South Resources



Similarities include:

- 1. Medium-grained Qtz-Plag phyric volcanic, also foliated
- 2. Green pervasive chlorite alteration
- 3. Cream patchy sericite alteration
- 4. Attenuated purple chert clasts



2.3M oz McPhillamys – Regis Resources



McPhillamys – KPD001 Rare base-metal intersection 31m at 1.64% Zn, 12g/t Ag, 0.19 g/t Au from 64m

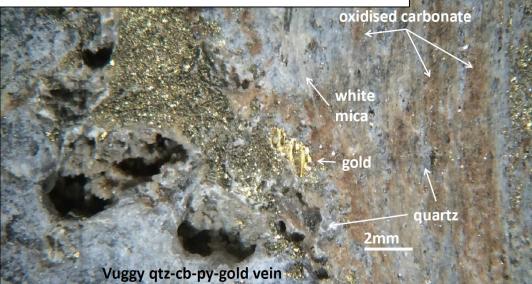


Target 4 Phoenix – New South Resources

Ore Zone, McPhillamys, French et al., (2015)



2.3M oz McPhillamys – Regis Resources



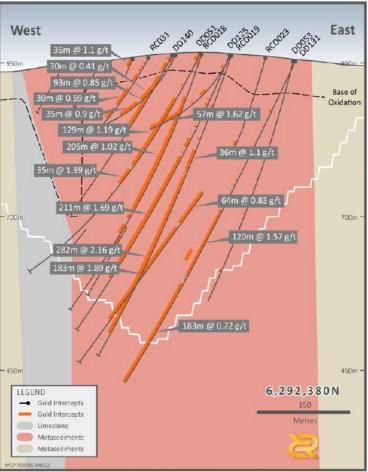
McPhillamys Hypogene Ore Zones

- 1. High strain
- 2. Steeply dipping foliation
- 3. Qtz Cb Py Au

BUT WHAT WE WANT IS A MCPHILLAMYS

Ounces (000's)

MCPHILLAMYS GOLD PROJECT





Mineral Resource 2.31Moz of gold

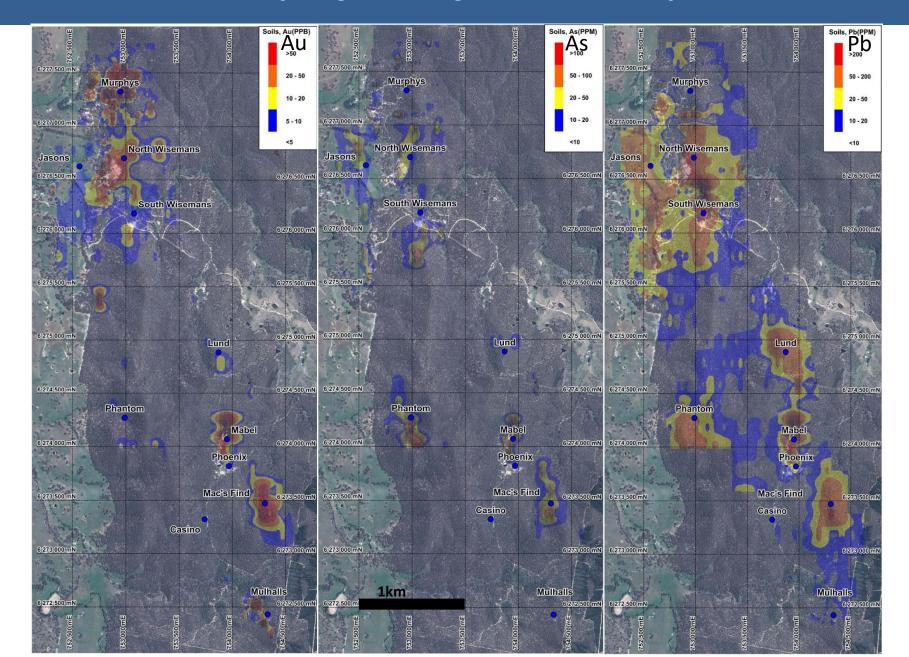
Ore Reserve 2.03 Moz of gold



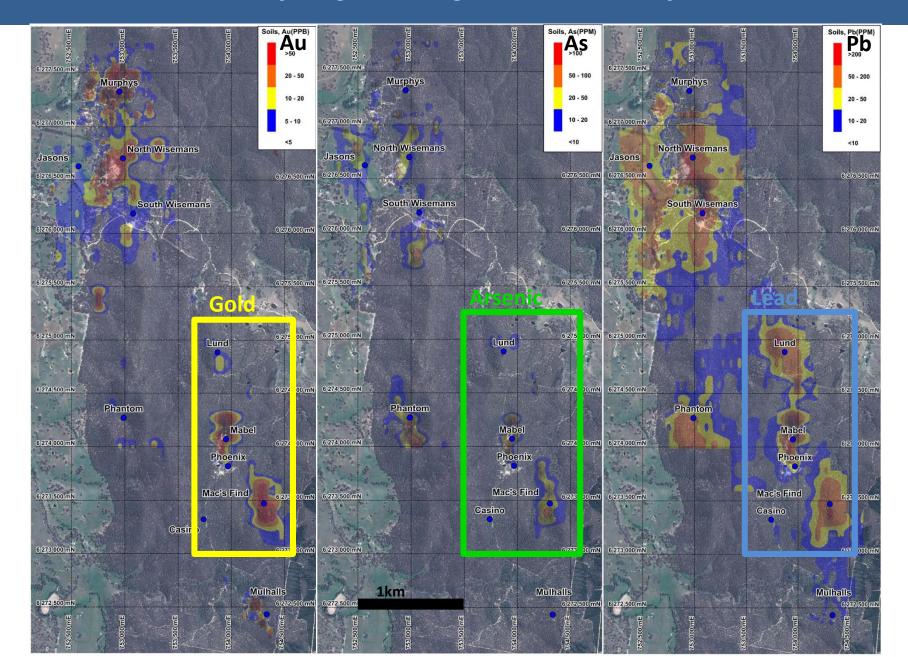
	EACIDII	ITV STU	NEC DEC	
PRFF		LITY STU	JIES RES	

Ore milled (Million tonnes)	60.1
Grade (g/t)	1.05
Recovery (%)	85
LOM gold produced (oz)	1,728,000
Avg annual production (oz)	192,000
Strip ratio (volume w:o)	4.29
Pre-production capex (A\$m) +/-25%	215
AISC (A\$/oz)	990

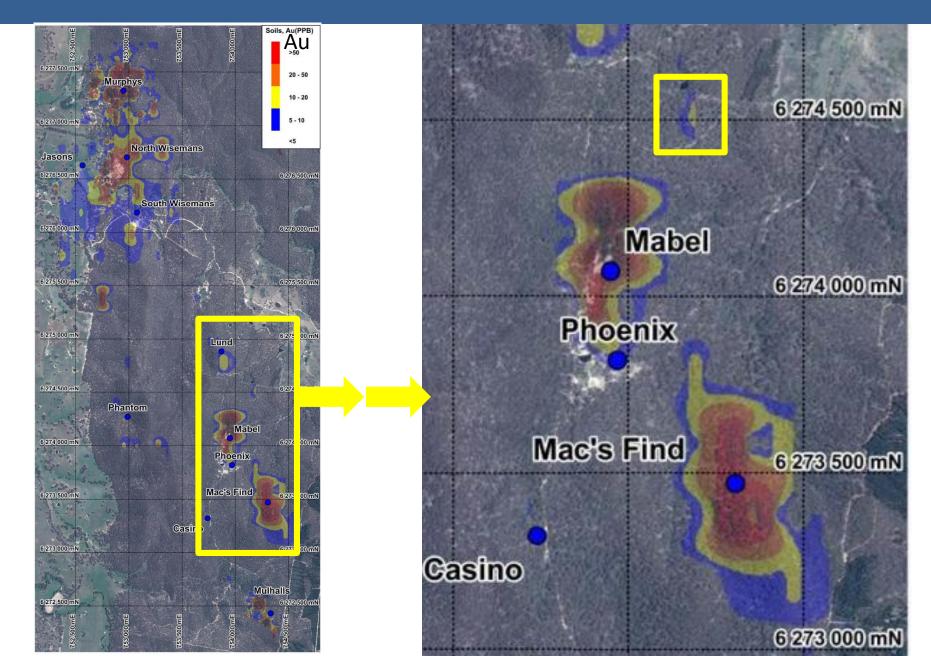
So where in the belt do you go looking for a McPhillamys?



So where in the belt do you go looking for a McPhillamys?

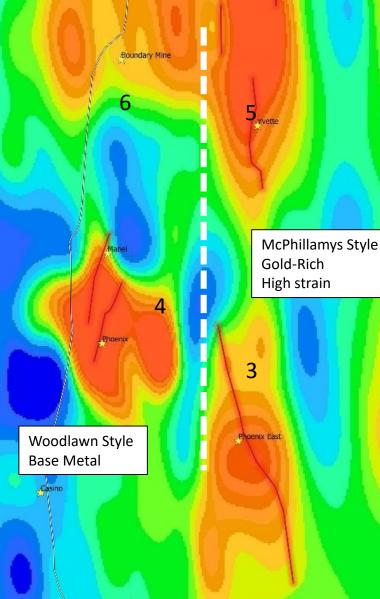


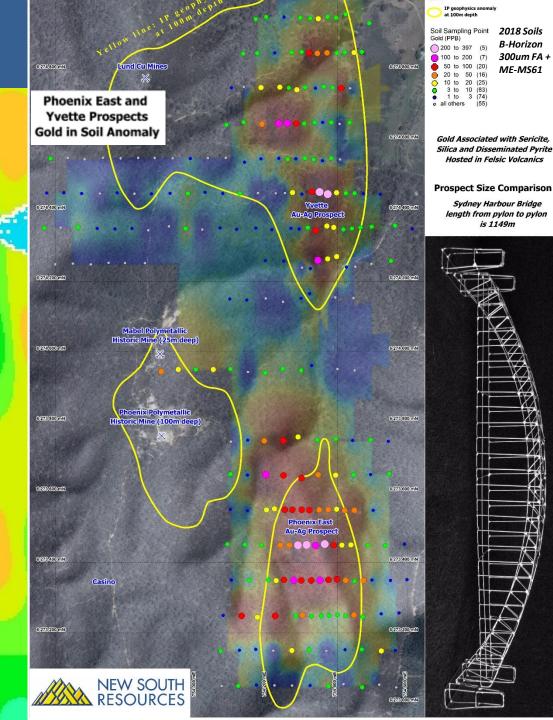
So where in the belt do you go looking for a McPhillamys?



Targets 3 to 6: EZ Ltd 1964 IP & Gold in Soil Anomaly's 2018

IP Chargeability 60m depth slice





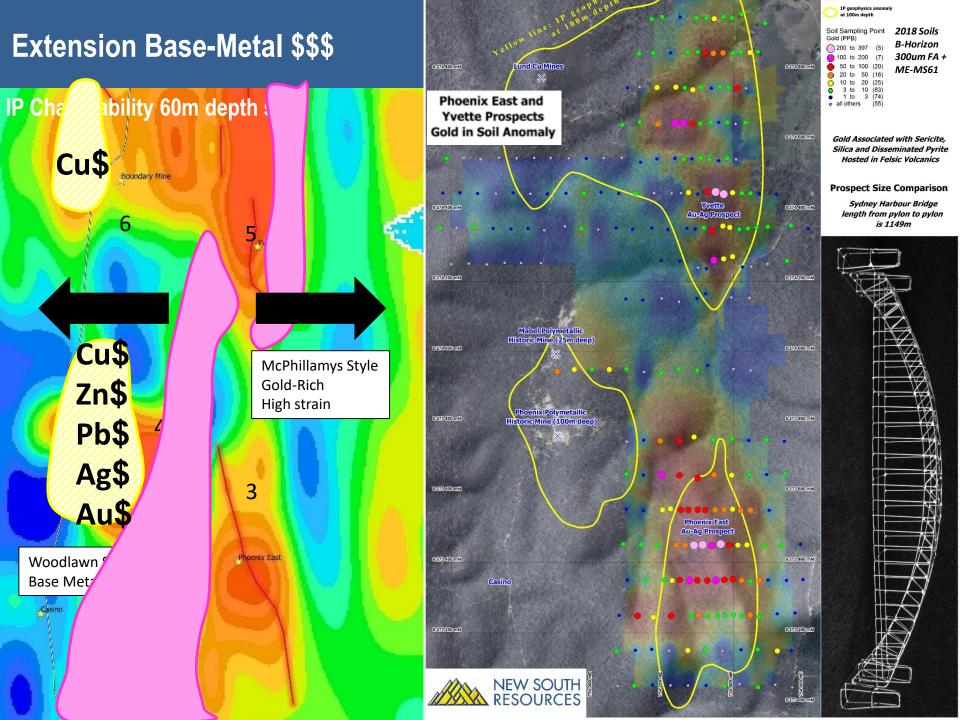
Yvette Prospect

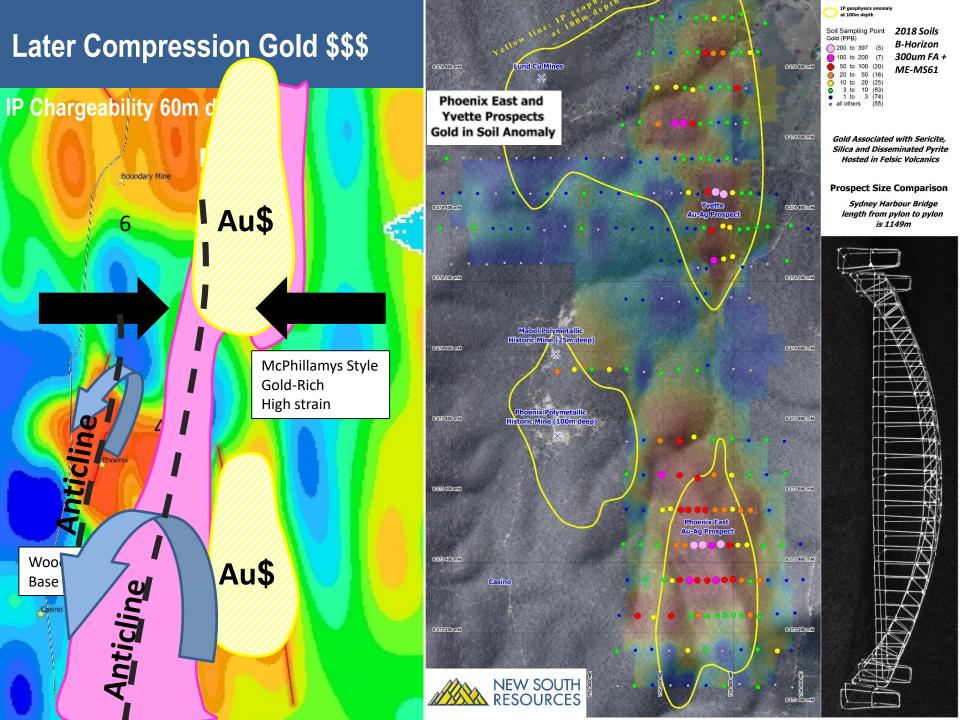
Yvette: Highly sheared Qtz Seri Py alt volcaniclastics 20m at 0.25g/t Au (2m composite trench sampling) 45m at ~0.4g/t (from 9x 5m outcrop composites)

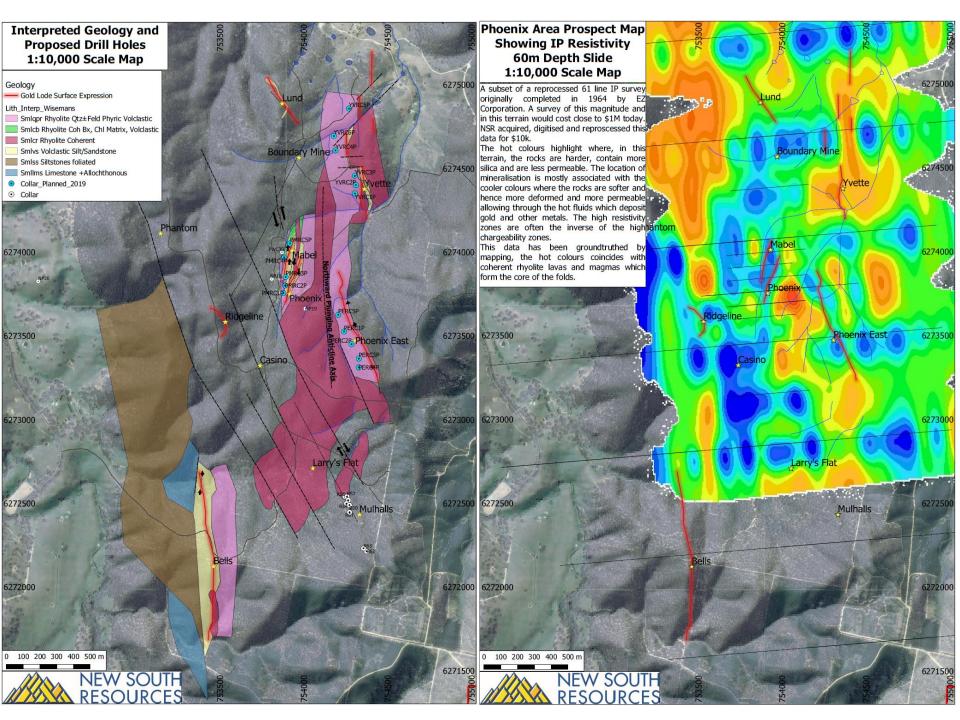
Yvette Prospect



Yvette: Highly sheared Qtz Seri Py alt volcaniclastics 20m at 0.25g/t Au (2m composite trench sampling) 45m at ~0.4g/t (from 9x 5m outcrop composites)







Sulphide at Surface

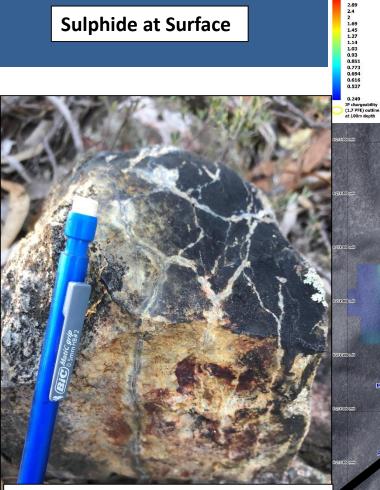
Soils, TI(PPM) 6.93

Thallium

Mabel Polymetallic Historic Mine

metallic Historic Mine (100m deep)

st Au-Ag Prospe

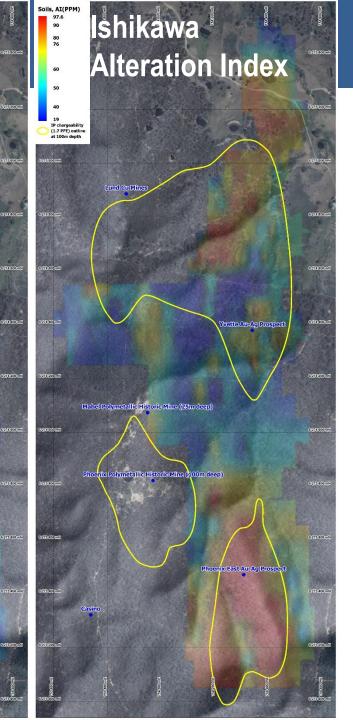


18R1080 Outcrop, fresh pyrite 5%, Au 1.04g/t, Tl 18ppm, Sb 27ppm, As 854ppm, Bi 0.26ppm, very low Cu 31.4ppm

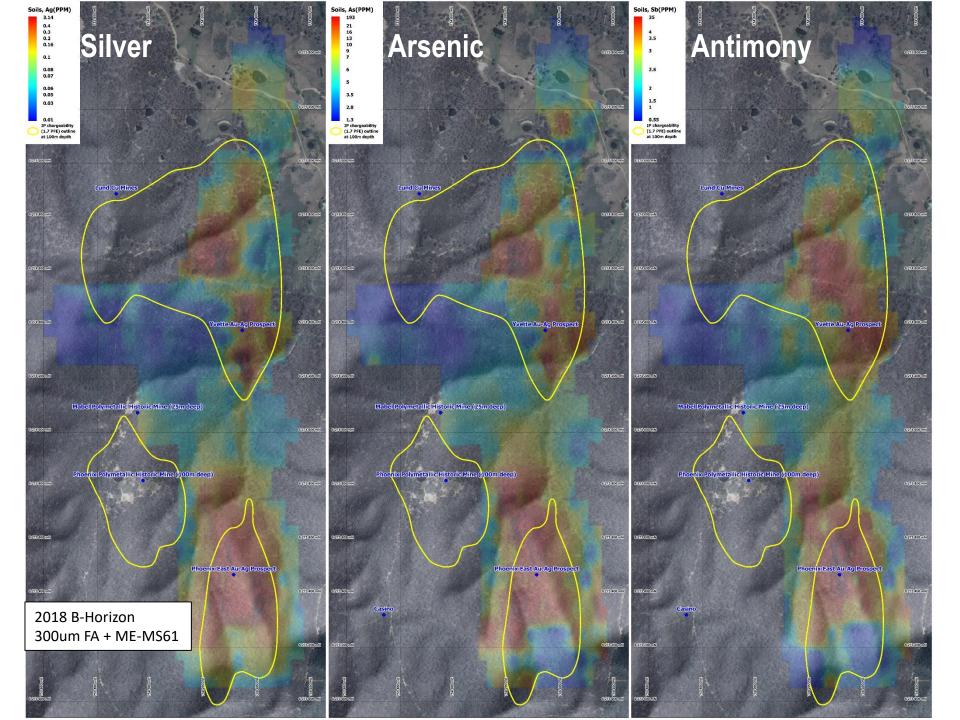
Massive sulfide

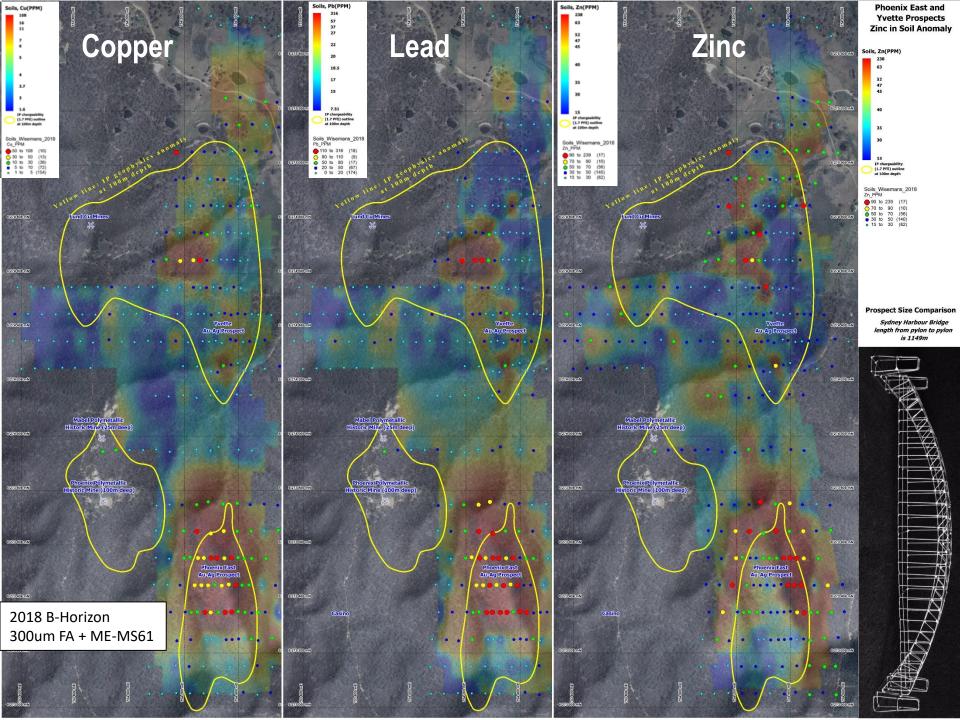
Antimony >5ppm Arsenic >50ppm

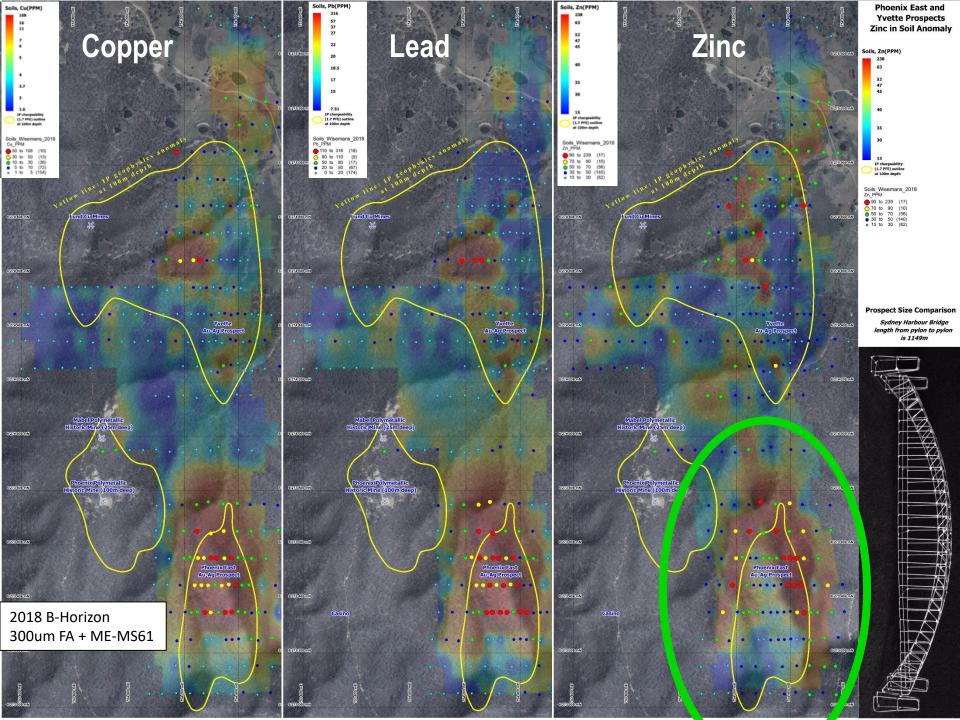
Bismuth >1ppm

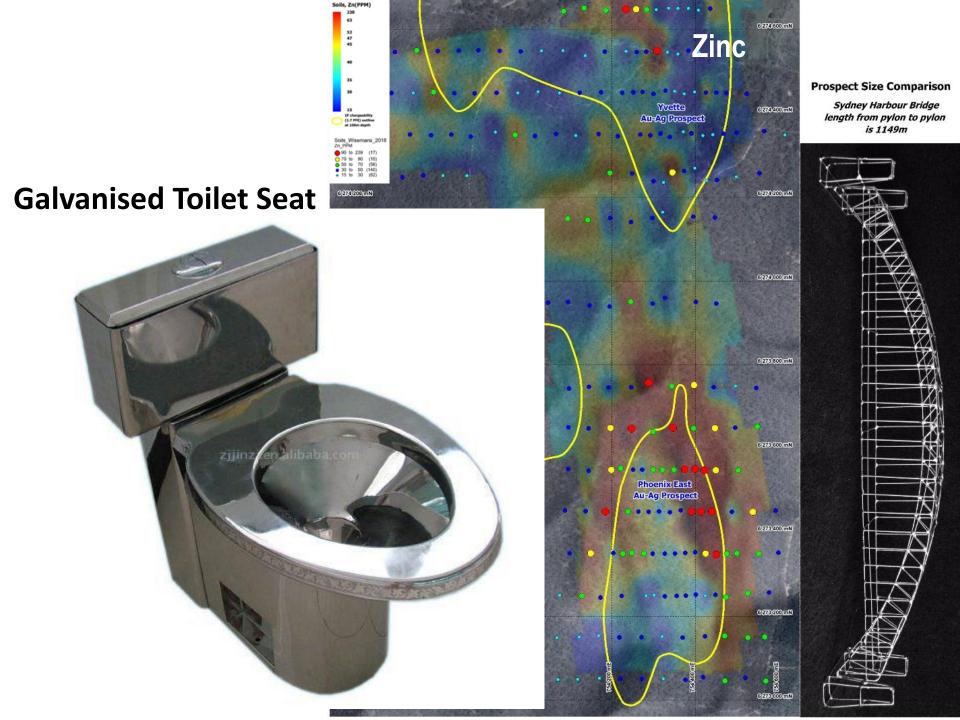


Scott Halley









So where in the belt do you go looking for a McPhillamys?

Soil Sampling Points Gold (PPB) 200 to 397 (5) 100 to 200 (7) 50 to 100 (20) 20 to 50 (16) 10 to 20 (25) 3 to 10 (83) 1 to 3 (74) e all others (55)

500m long >50ppb Gold in Soil anomaly 300m >150ppb

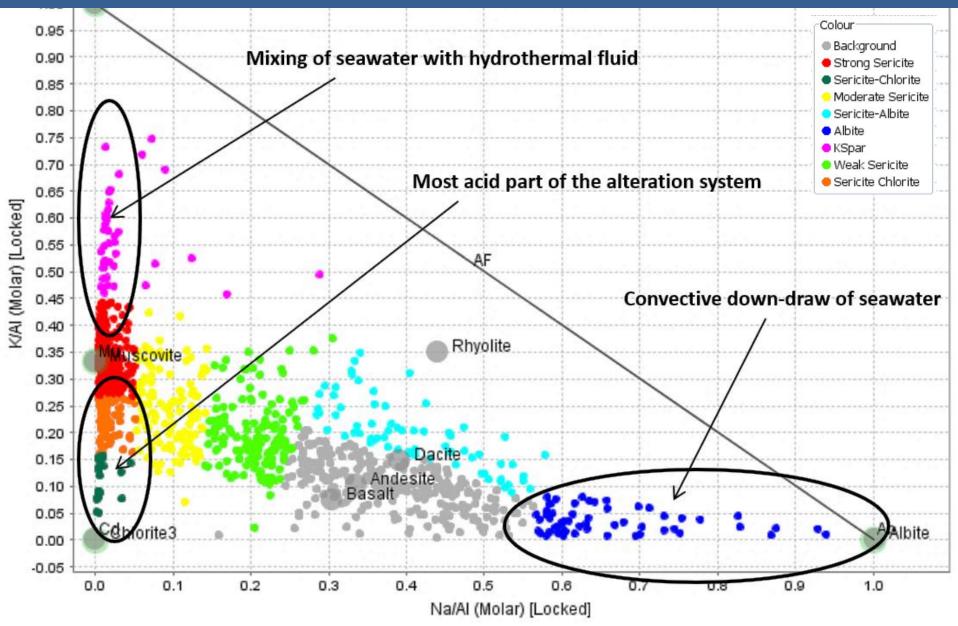
1,100m asl

To 2.8g/t Au Rock Chips

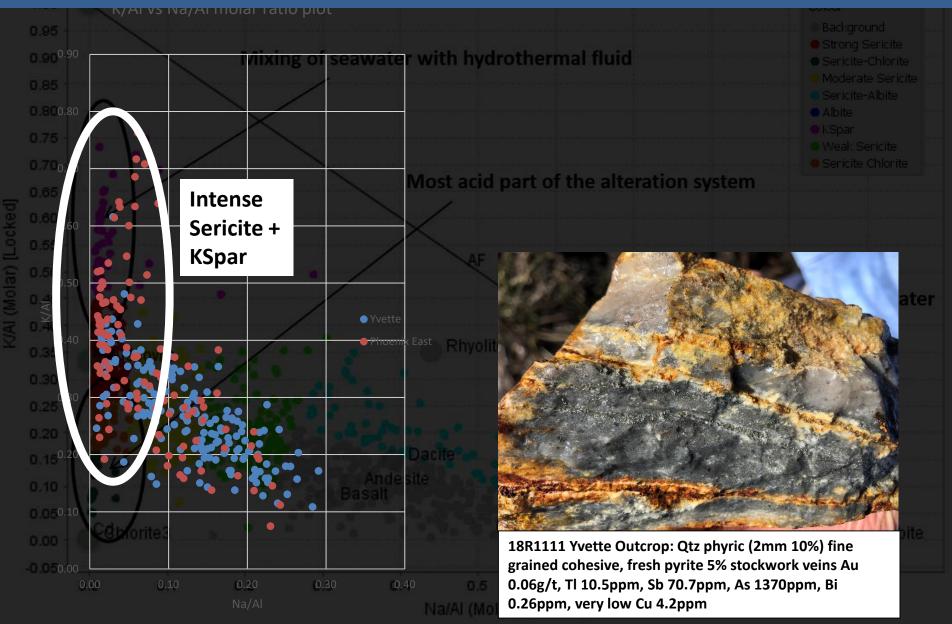
Slag Dump

Phoenix East Au-Ag Prospect

Typical VHMS Alteration Zones Halley S. 2014 Geochemical Tools for VHMS Exploration



PE & Yv Soil Alteration Draped over Typical VHMS Alteration Zones Halley S. 2014 Geochemical Tools for VHMS Exploration



Target 4: Phoenix Mine Dump **Pyrite (+Galena) Laser Ablation**

Na23 ppm

K39 ppm

Se77 ppm

Sn118 ppm

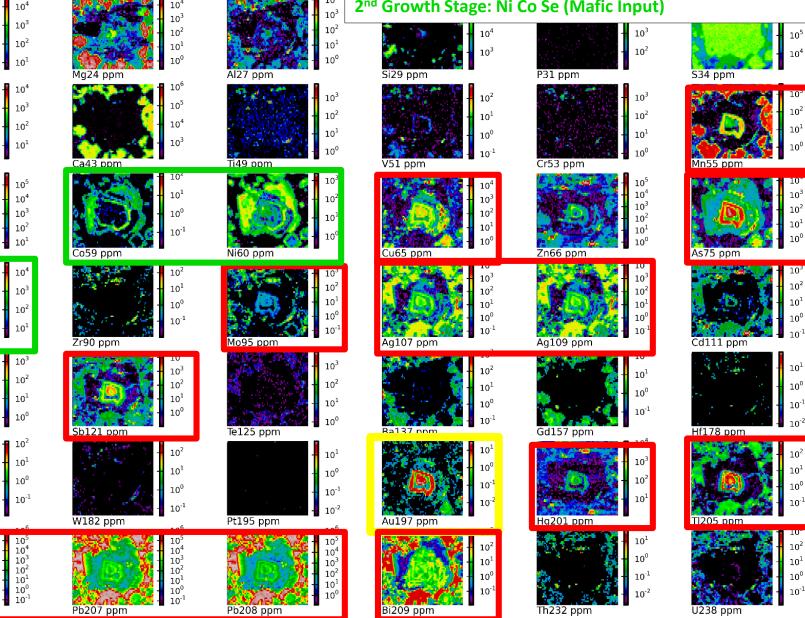
Ta181 ppm

Pb206 ppm

10

Banded sulphides in hand specimen LA Shows an oscillating zonation around central core. Looks similar to a Woodlawn Pyrite

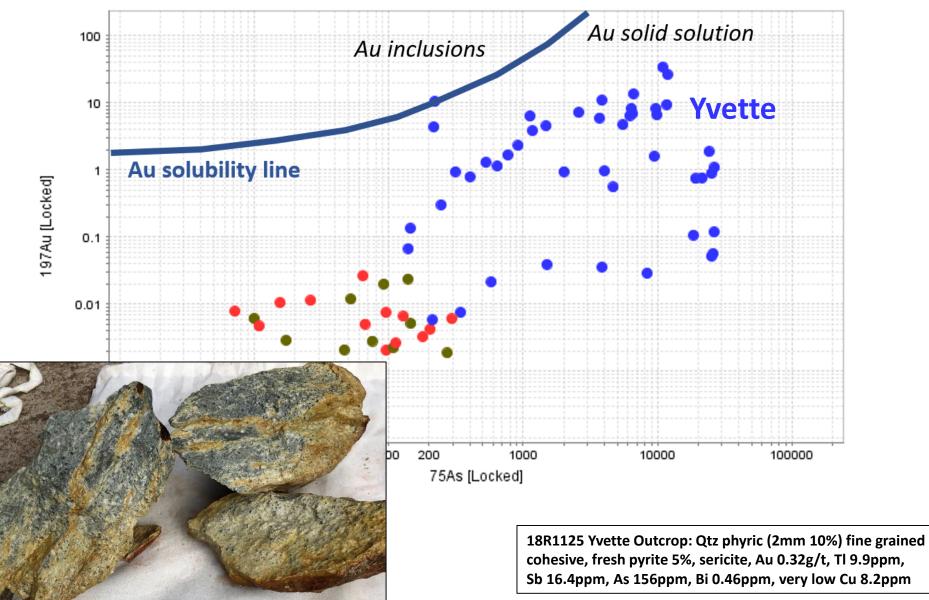
1st Growth Stage: Au Ag TI As Cu Hg Mo Sb Bi Mn (Red Outline) 2nd Growth Stage: Ni Co Se (Mafic Input)



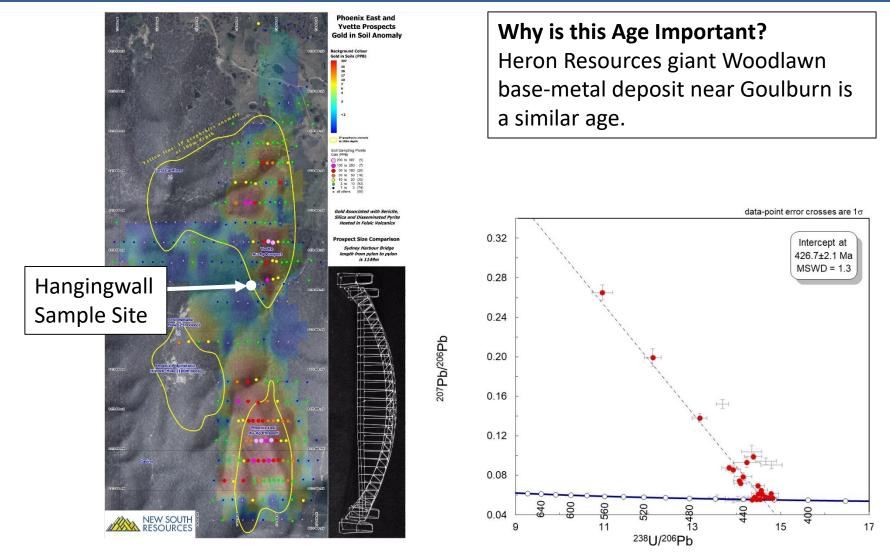
10

Target 4: Yvette Pyrite (+Gold) Laser Ablation

75As: 197Au



Age Dating: Altered Rhyolite Zircon Age 426.7 \pm 2.1Ma



A rhyolite (sample ID: SL-4) from Sheltons Gully between Phoenix and Yvette dated by U-Pb from Zircons using laser ablation at the University of Tasmania CODES. The Rhyolite (Smlcr) is massive and coherent with quartz-feldspar (3mm 15%) phenocrysts and has been altered by chlorite and silica with minor sericite and trace hematite and disseminated pyrite. The rhyolite was sampled from the southern zone of Yvette and is mapped as being in the altered hangingwall. The age of SL-4 is 426.7 ±2.1Ma MSWD 1.3

Phoenix East Anticline – A Prospective Hill 100m high, 600m long, 250m wide Sericite-Silica-Pyrite Stratigraphy Dips 50° West: Hence a Low Strip Ratio



View looking west

The strip ratio could potentially be very low. Phoenix East is a large hill, 100m high out of the creeks, mapped mineralised stratigraphy dips 50° West hence potentially low strip ratio

Phoenix East

Phoenix East – Gov. Geos Inspecting Ex-sulphide Stockwork Veins In Sericite-Quartz-Pyrite Altered Stegosaurus Ridge

Sericite-Silica-Pyrite Stratigraphy Dips 50° West: Low Strip Ratio Outcrop area has 170ppb gold in soil anomaly

So Where Does Wisemans Creek Fit in?

Drill it to Find Out





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