



The McPhillamys Gold Deposit, Discovery History & Geology.

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This presentation contains “forward-looking statements”. Such forward-looking statements may include, without limitation:

- Estimates of future results of exploration activities;
- Estimates of future cash flow;
- Estimates of future capital expenditure and resources;
- Estimates of mineral reserves, resources and statements regarding future exploration results.

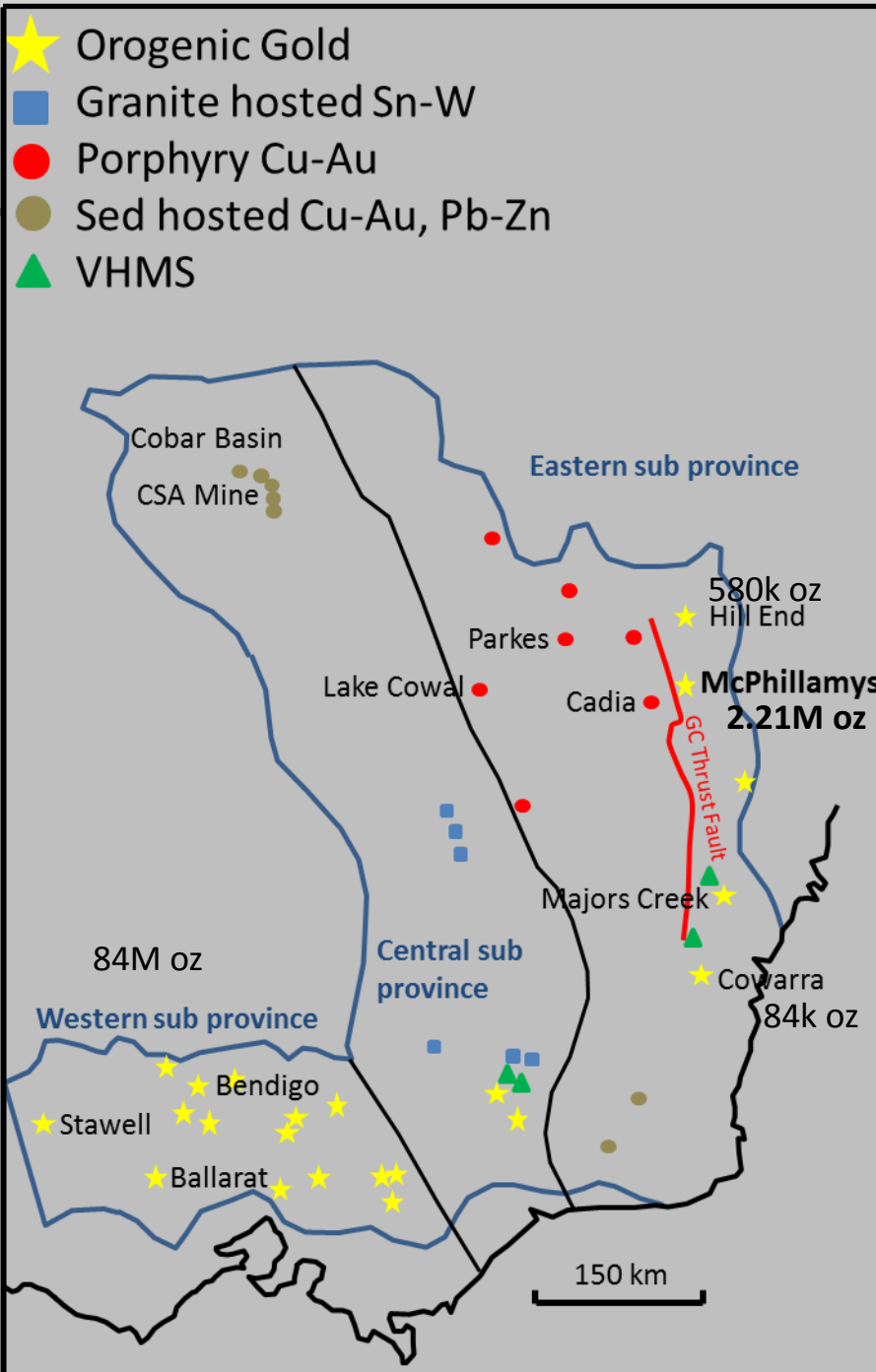
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McPhillamys Shear Hosted Orogenic Gold deposit



- **Location**
- **Regional Geological Setting**
- **Discovery History**
- **Local Geological Setting**
- **Geochemistry**
- **Resource**
- **Conclusions**

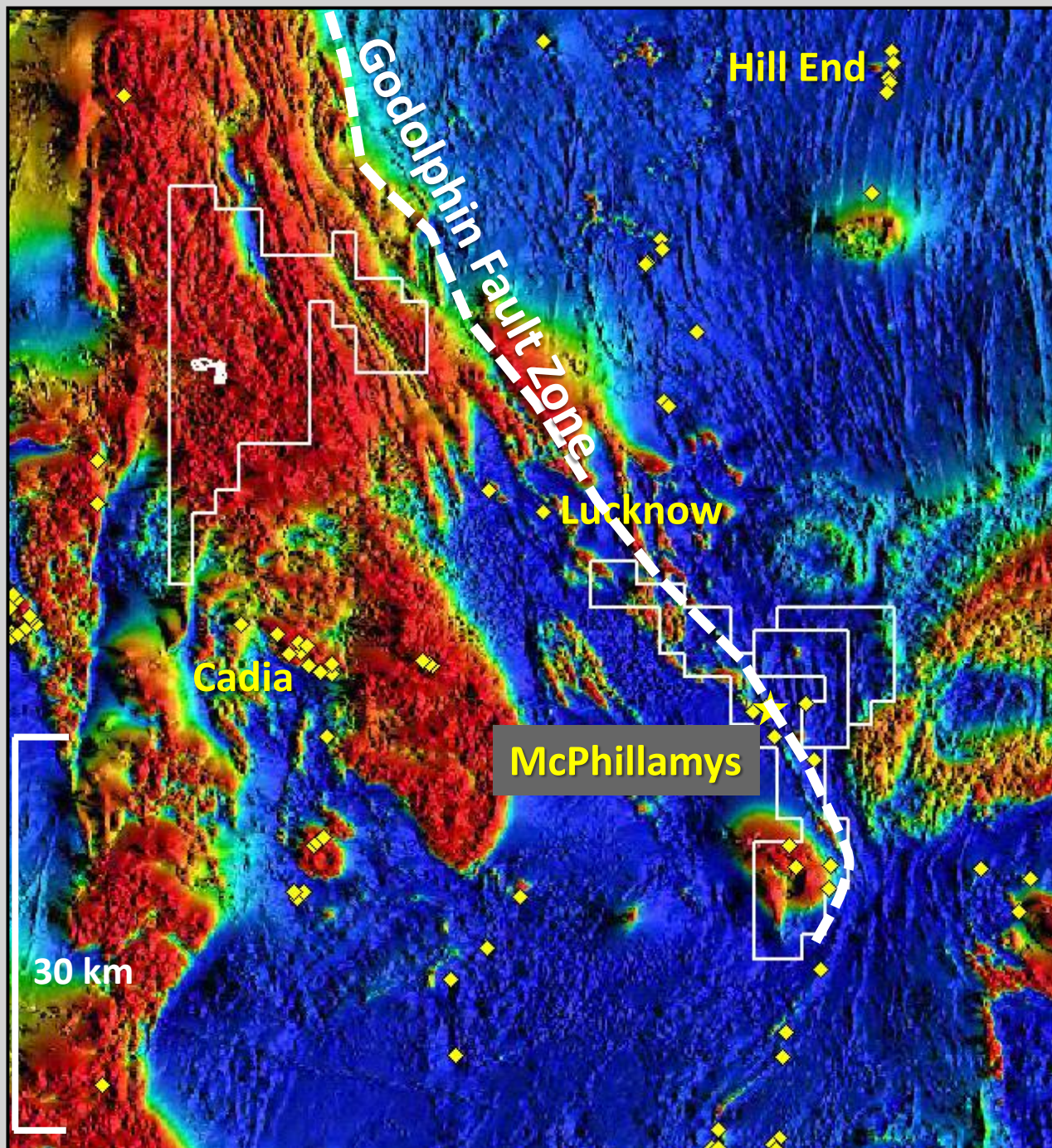


Eastern Subprovince Lachlan Fold Belt

**Cadia – 7.5M oz gold since 1999
Current Resources ~44 M oz Au,
8.6MT Cu (Dec 2014)**

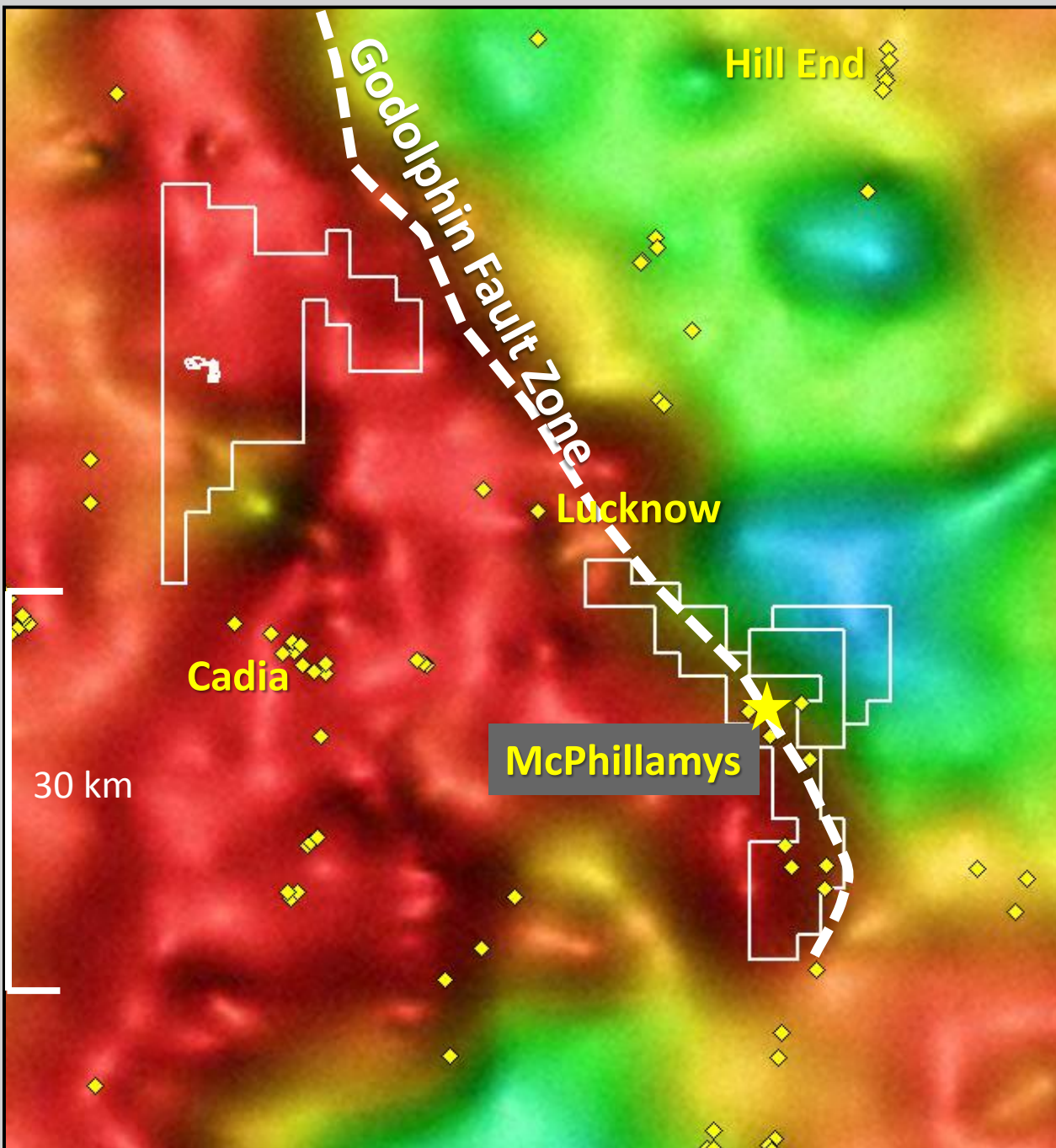
Regional TMI

- Well known porphyry copper belt – Cadia Ridgeway
- Orogenic gold deposits associated with the regional scale Goldolphin Fault Zone.



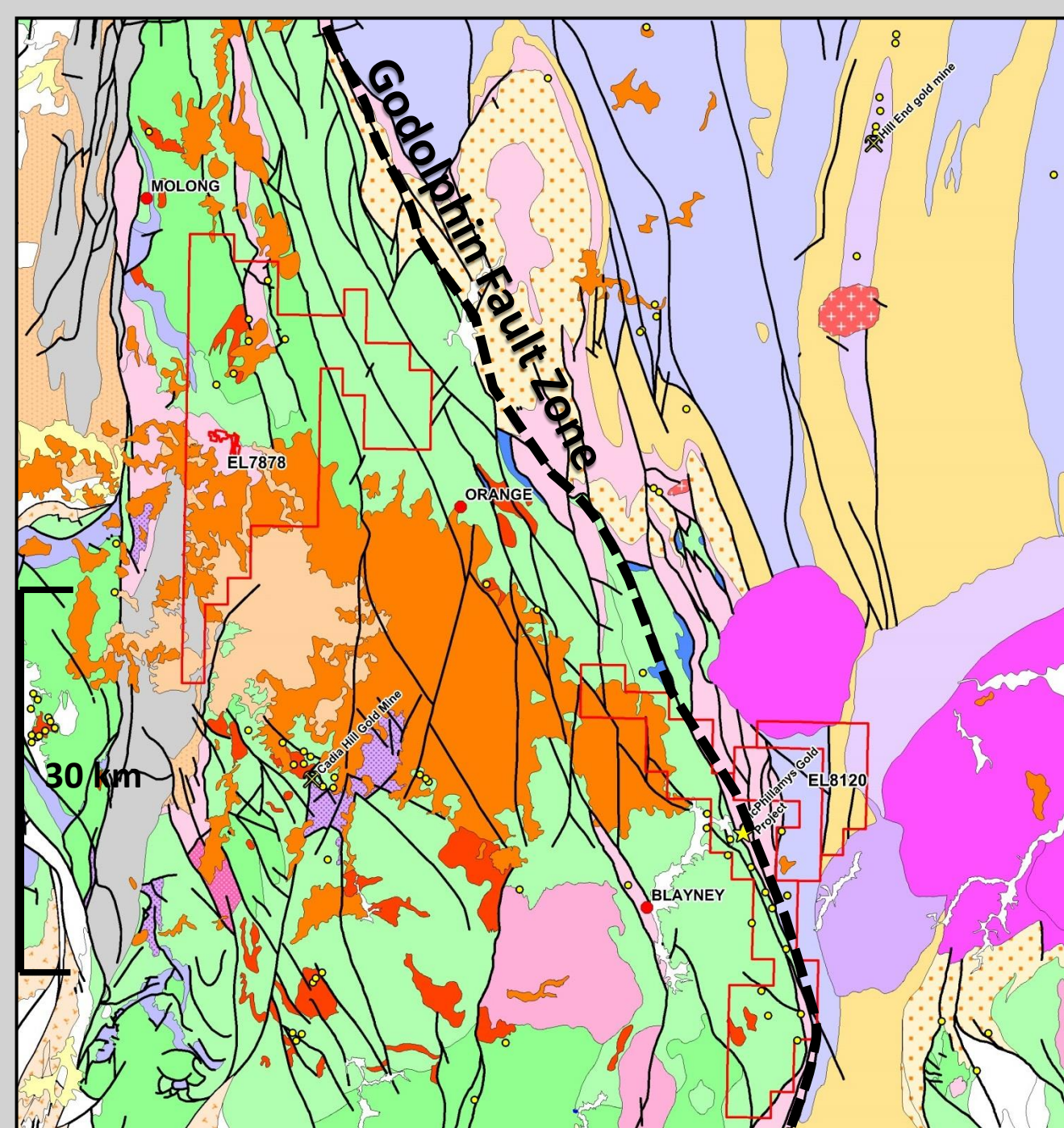
Regional Gravity

- Orogenic gold deposits associated edge of gravity high.



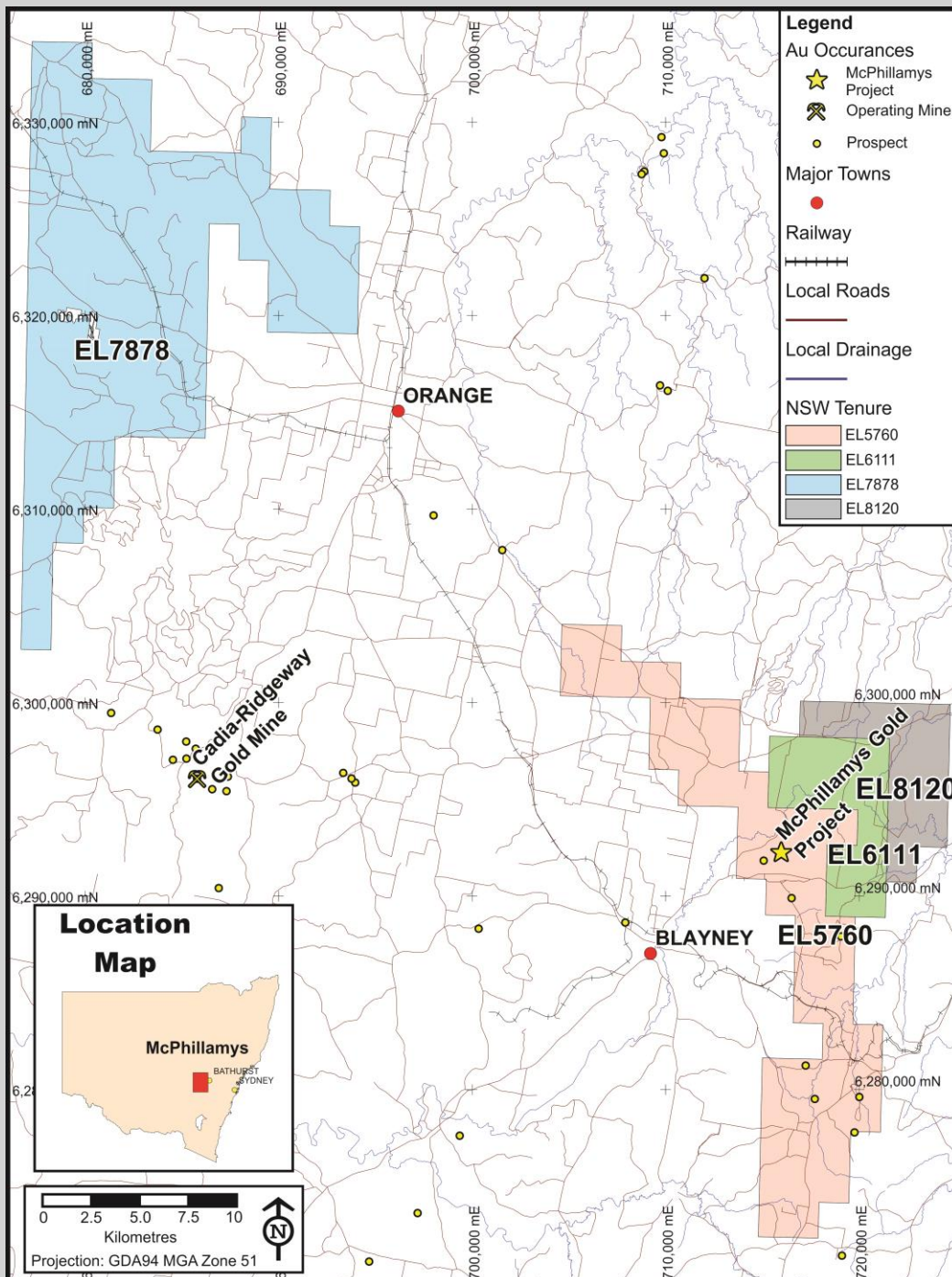
Regional Geology

- **Ordovician**
 - volcanics
- **Silurian**
 - volcanoclastics
 - sediments
- **Devonian**
 - sediments
- **Carboniferous**
 - granites

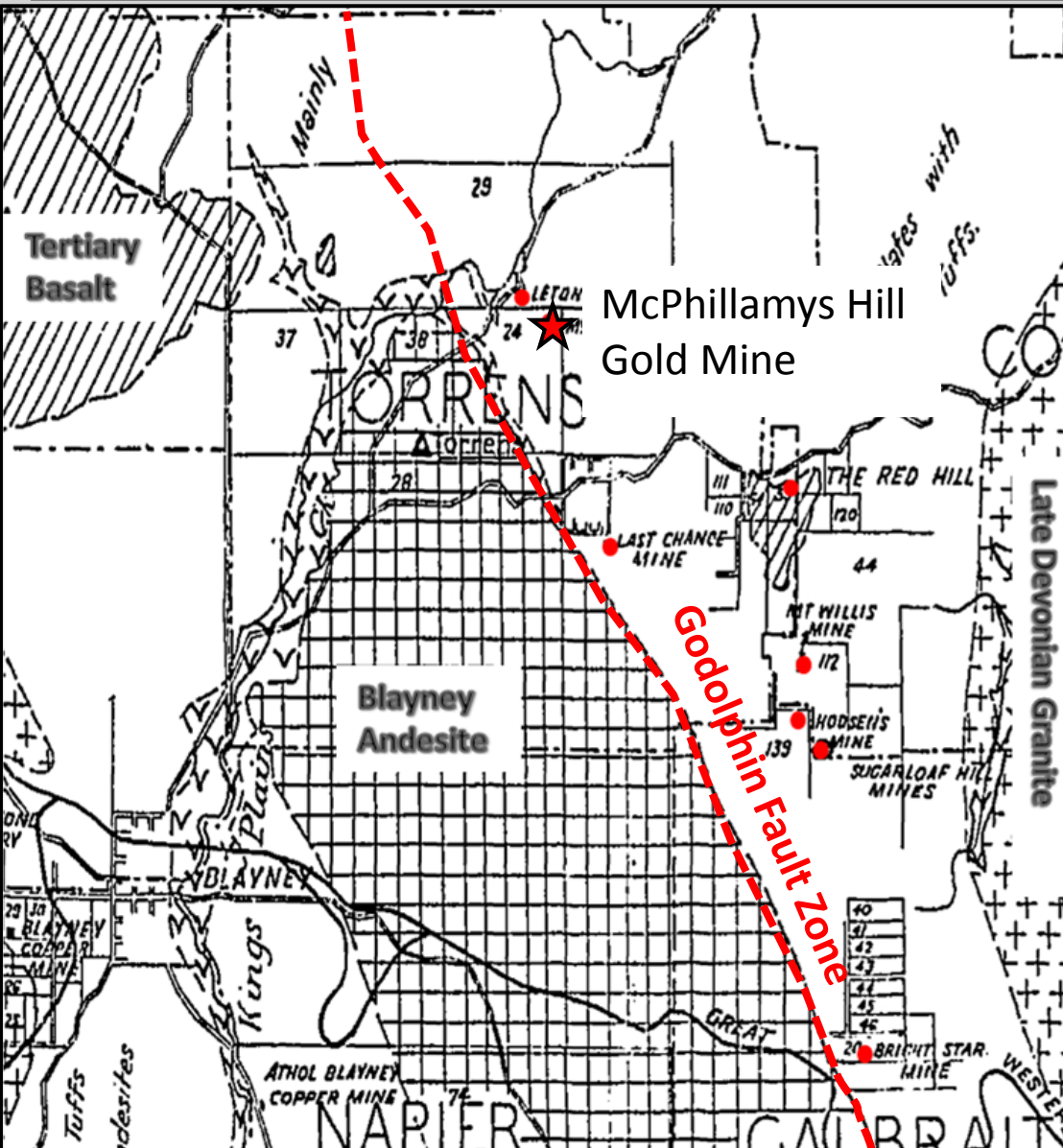


Tenure McPhillamys Gold Project

- Acquired 420km² ELs from Newmont & Alkane
- Including the McPhillamys Gold Project (2.5 M oz Au 2010 JORC resource)



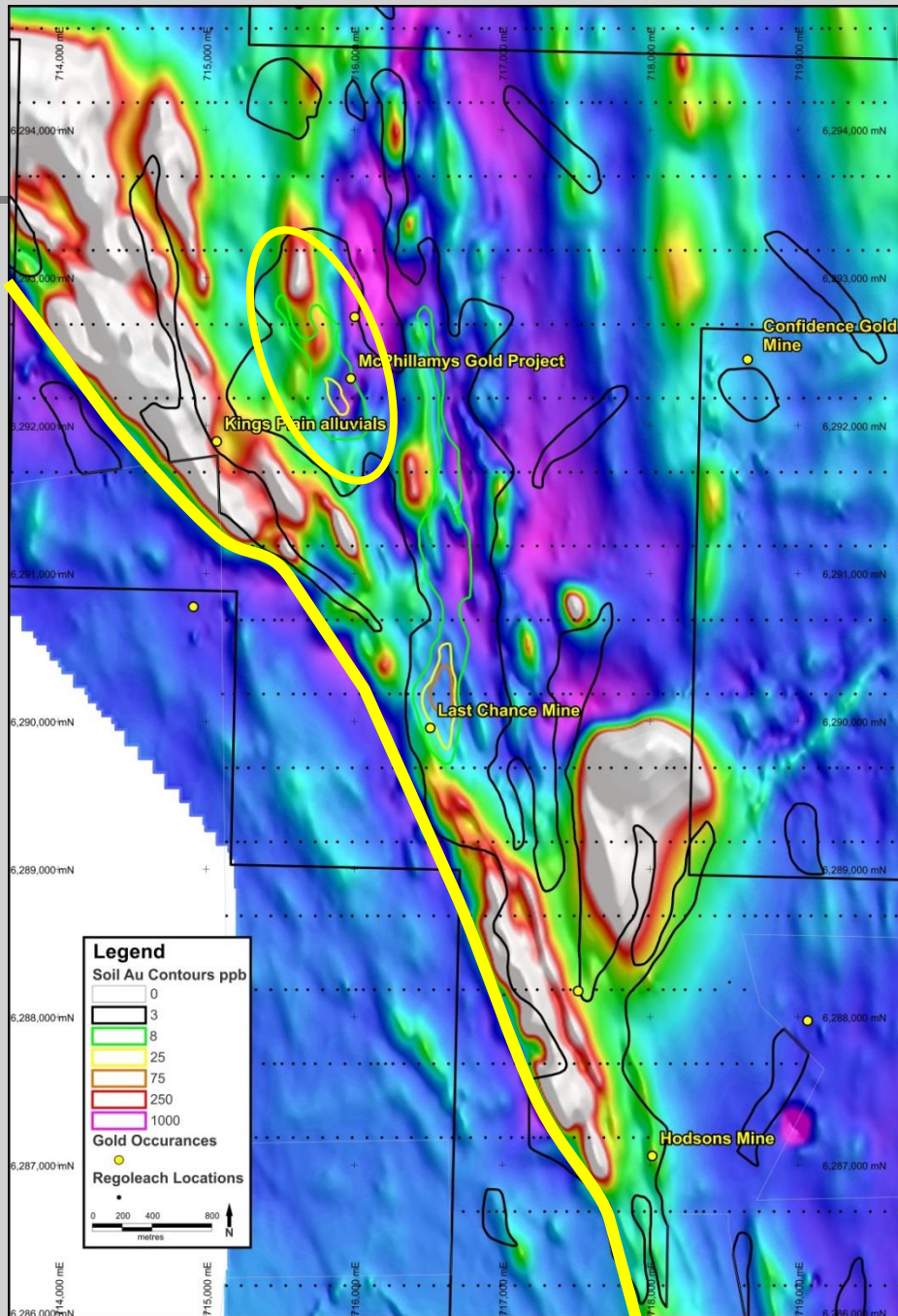
McPhillamys Discovery History



- 1850s - 1860s - Alluvial workings
- 1880s - 1900s - Minor Hard rock mining (1894 McP – 4T for 6.2 oz)
- 1960s - 70s base metal exploration
- 1980s Gold rush
- 1994 Hargraves ELs along the GCFZ 30km.
- 1997 Hargraves identified the need for a good surface geochemical map

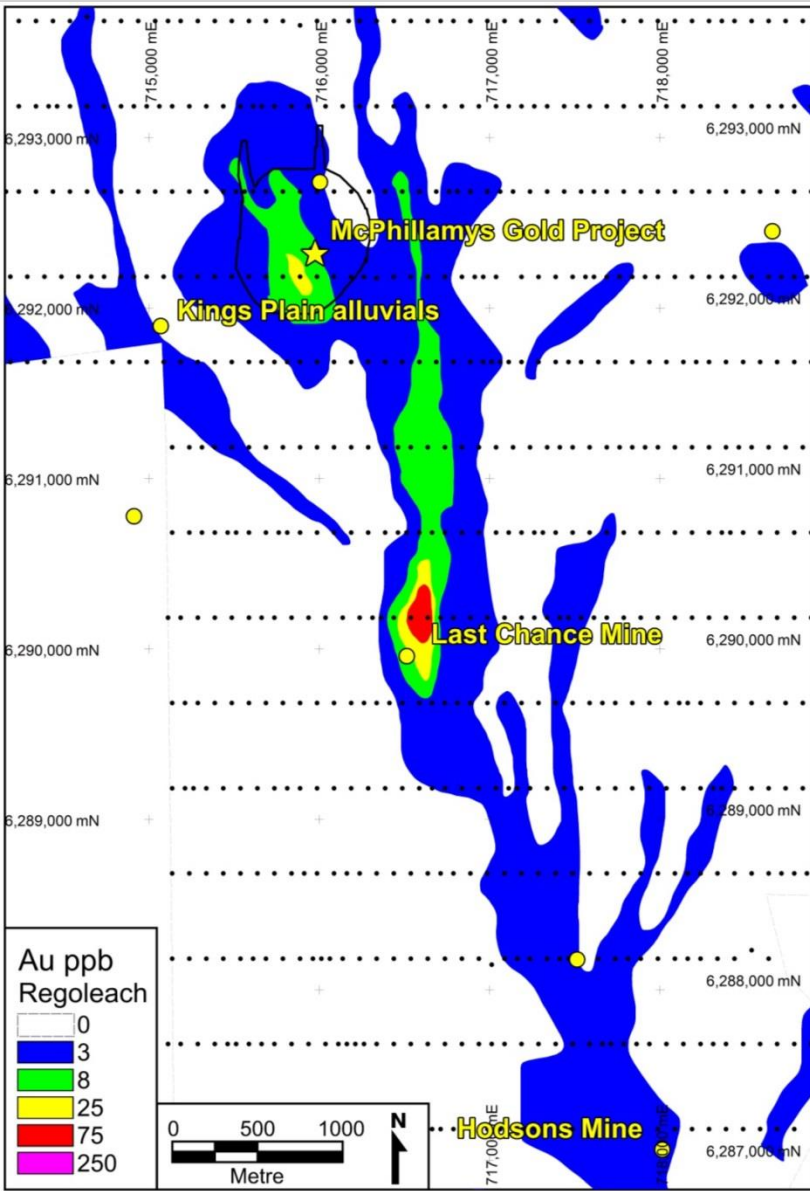
Hargraves BLEG Sampling

- Bulk stream sediment sampling
- Soil auger samples over 24 strike km along the GCFZ on 500m line spacing
- 3ppb Au Regoleach anomaly defined over 7km



McPhillamys Discovery

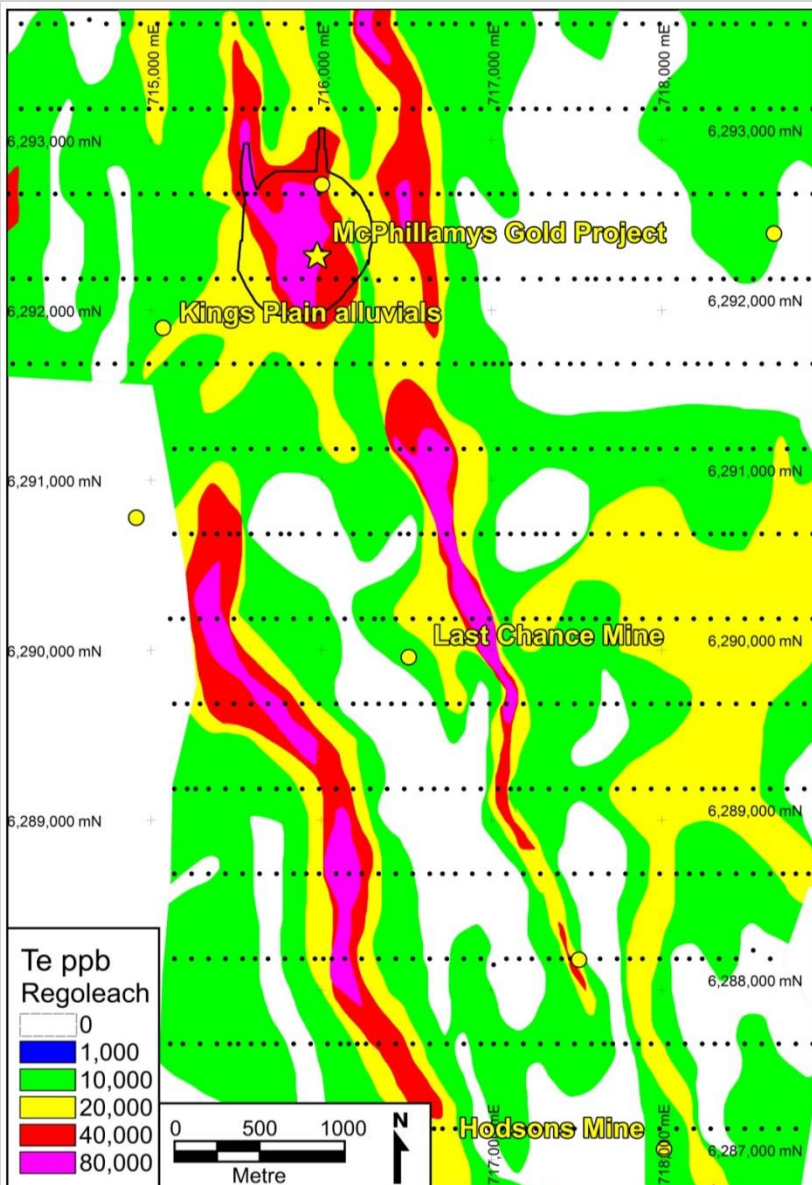
Hargraves Regoleach Anomalies



- Eight gold targets identified
- McPhillamys highest priority target
- Anomalous gold (>10ppb) over 2 lines 1km along strike N-S and over 400m wide E-W

McPhillamys Discovery

Hargraves Regoleach Anomalies



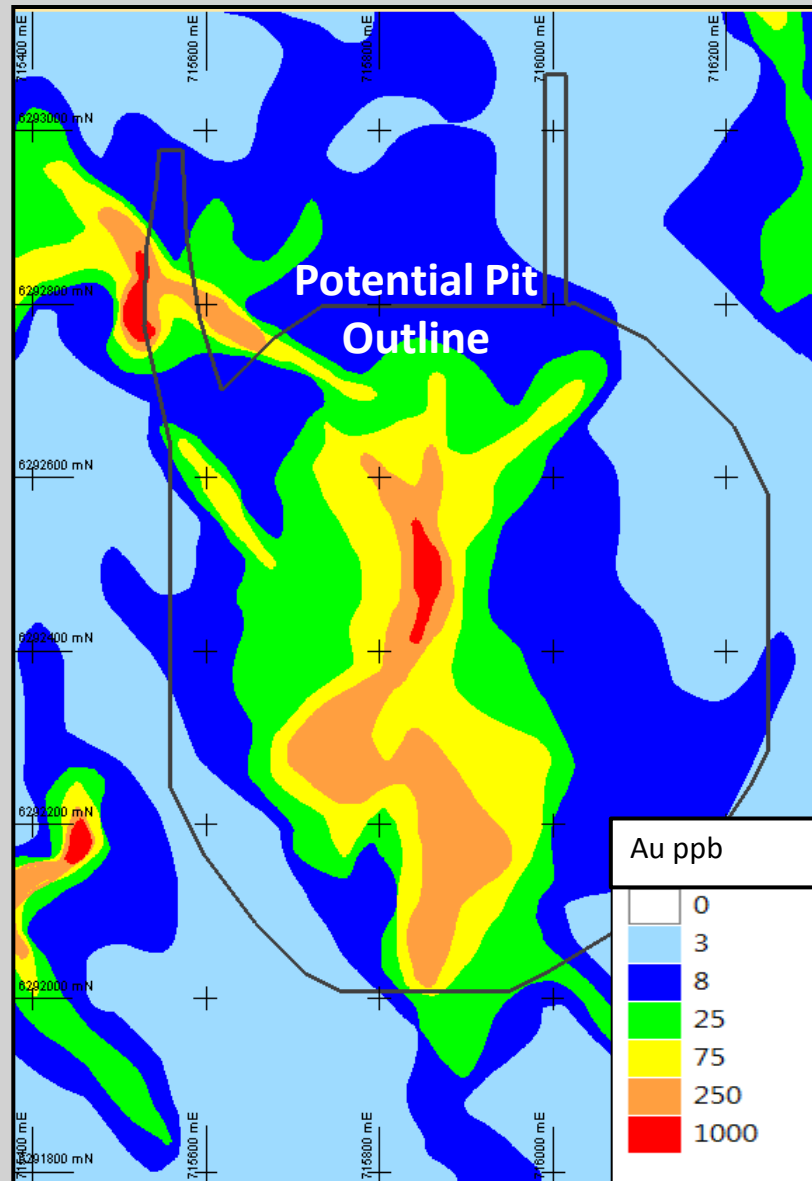
- >10ppb Au anomaly with coincident >40ppm Te over 2 lines 1km along strike N-S and over 400m wide E-W
- Further work recommended
- Hargraves relinquished in 1999
- Not drill tested !

McPhillamys Gold Anomaly



Soil geochem coincident with: Argillic alteration 500m x 200m; Sulphide box works; Quartz veins in outcrop; Radiometric K high; Magnetic low; Edge of gravity gradient

Alkane follow up AR Soil Geochemistry

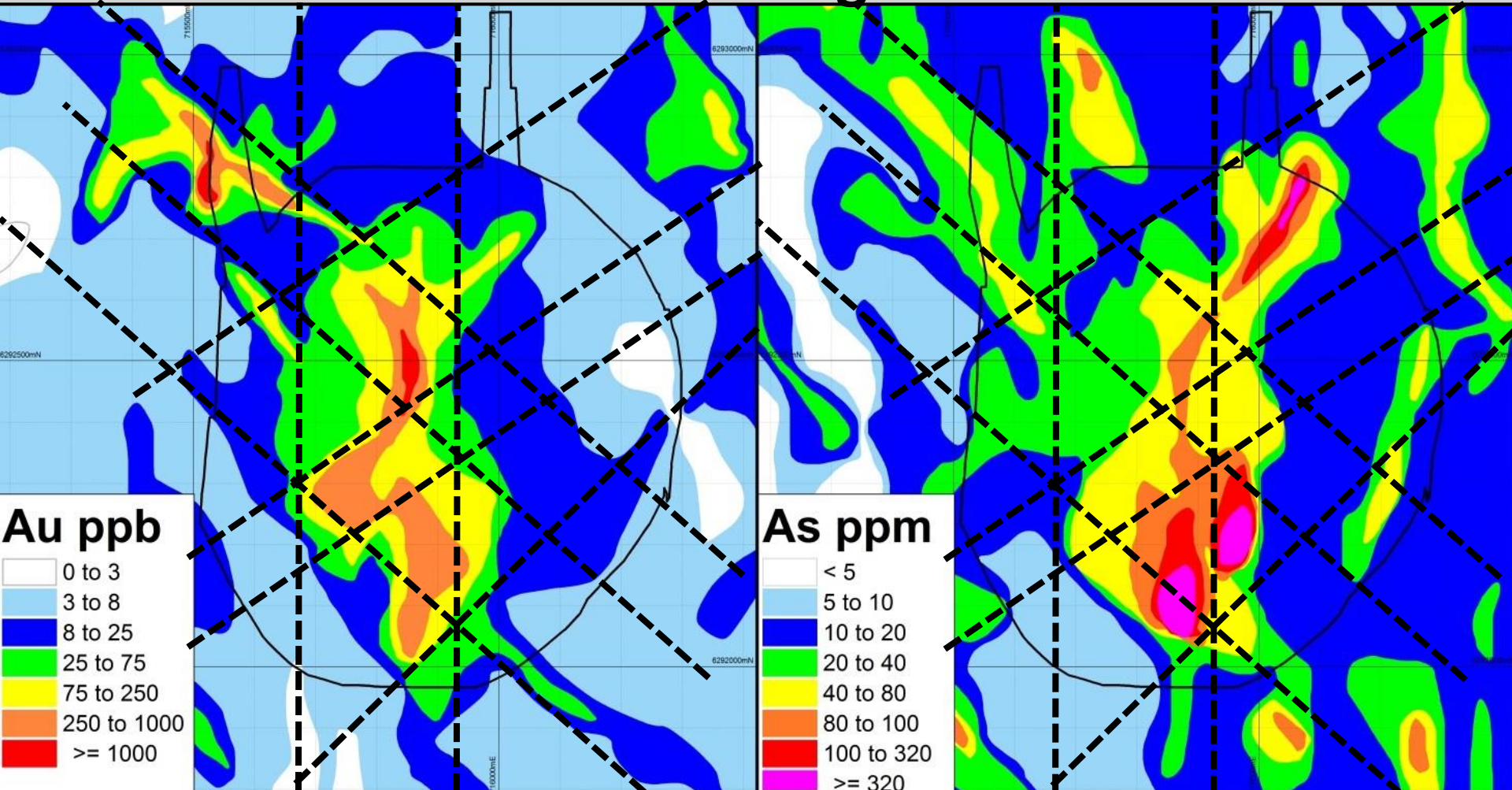


- Alkane acquired ground in 2000
- 2006 Auger Soils across McPhillamys
- 100m x 50m grid
- 100ppb Au anomaly over 200m E-W and 600m N-S along strike

Alkane

AR Soil Geochemistry

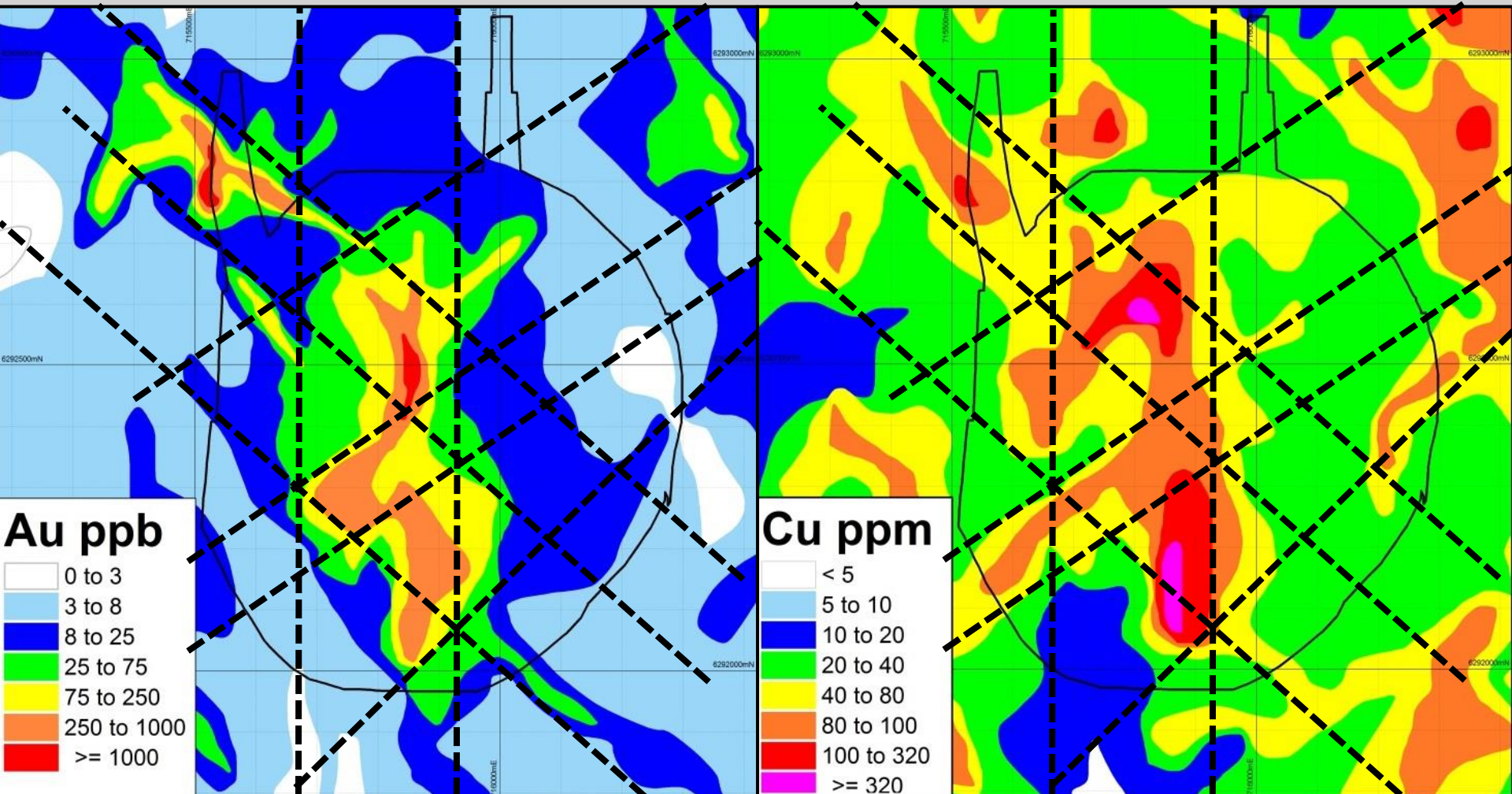
- Aqua regia results: Au, As
- Au mineralisation - strong structural controls



Alkane

AR Soil Geochemistry

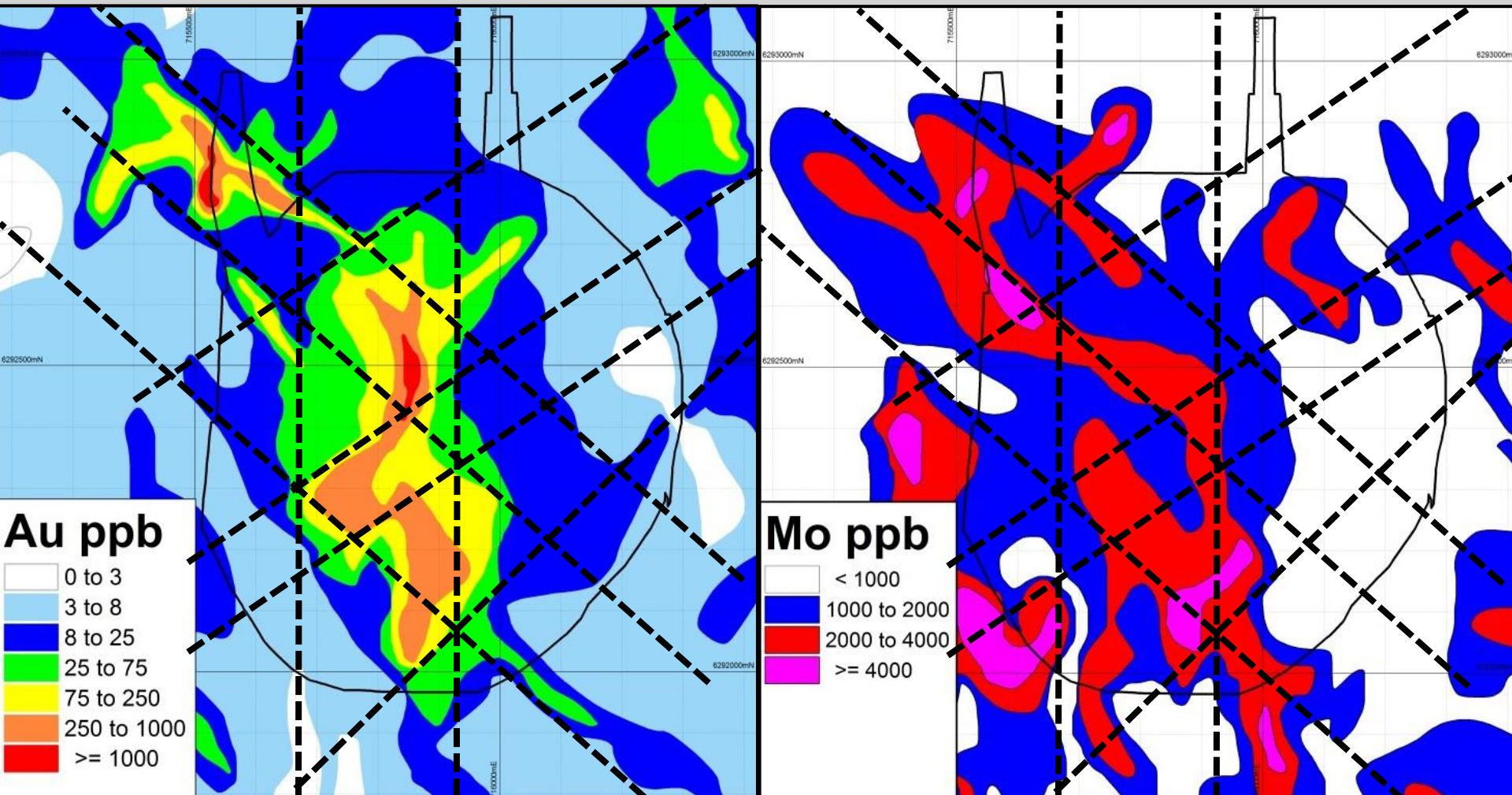
- Aqua regia results: Au, Cu



Alkane

AR Soil Geochemistry

- Aqua regia results: Au, Mo

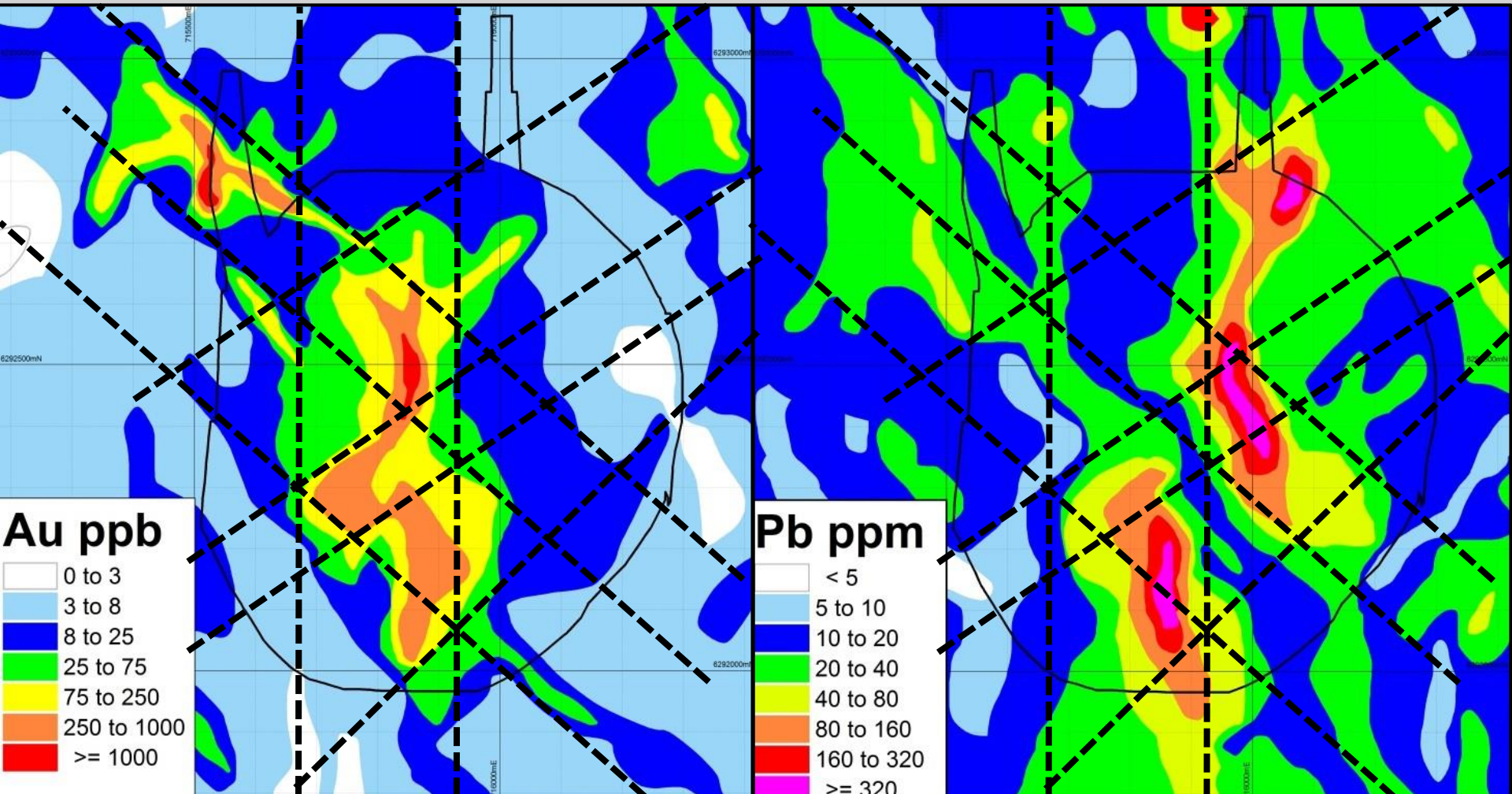


Alkane

AR Soil Geochemistry



- Aqua regia results: Au, Pb

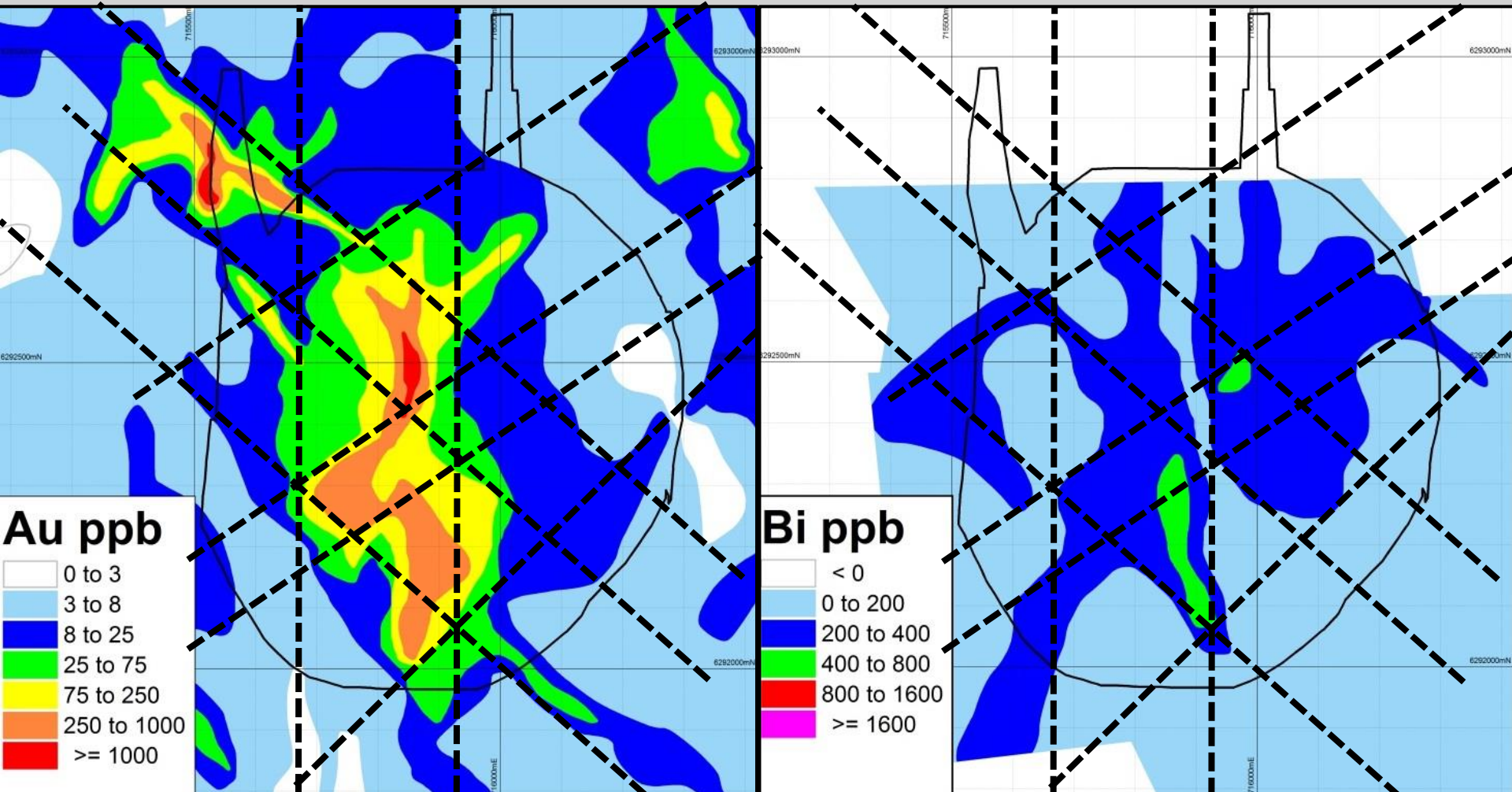


Alkane

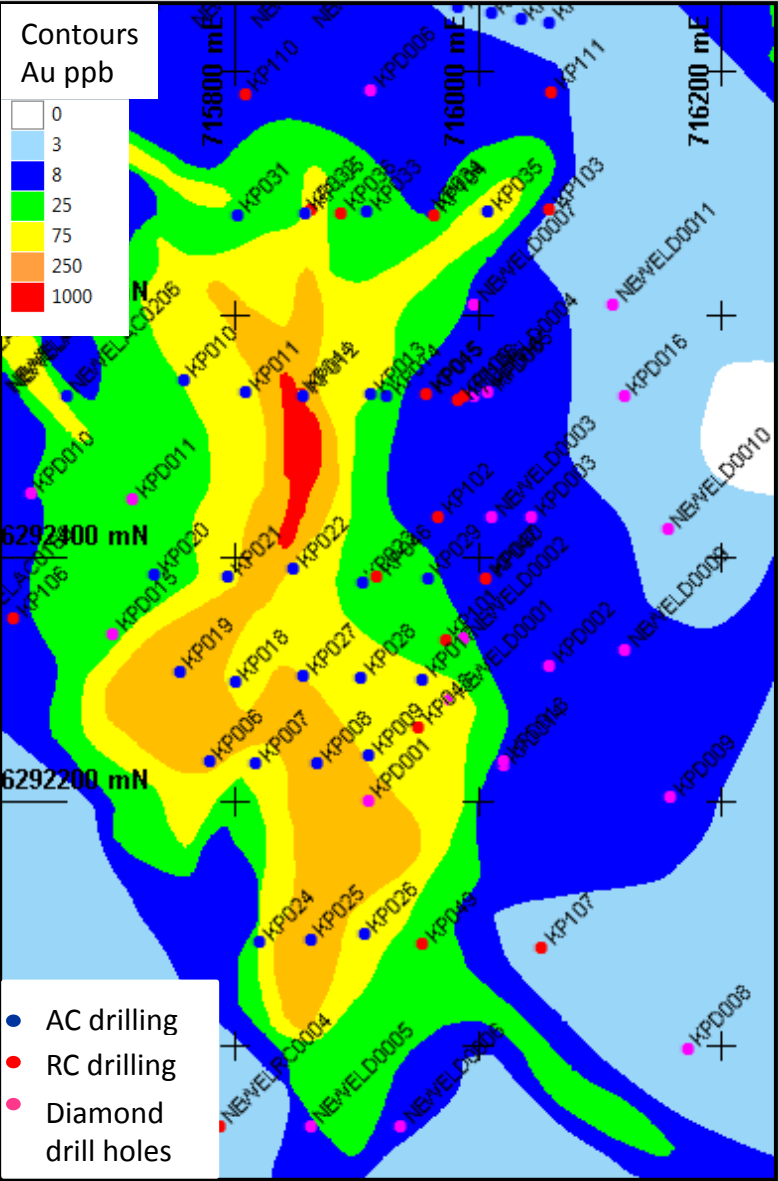
AR Soil Geochemistry



- Aqua regia results: Au, Bi



Alkane & Newmont RC & Diamond Drilling



- Anomalous intercepts from JV drilling include:
 - KPD001 77m @ 1.65 g/t Au from 140m
 - KP048 120m @ 1.96 g/t Au from surface
 - KPD003 366m @ 1.85 g/t Au from 134m
- 2010 – First Resource Estimate:
 - 57 Mt @ 1.36 g/t Au for 2.5 Moz (0.5g/t cut off)
 - 75 Mt @ 1.13 g/t Au for 2.7 Moz (0.3 g/t cut off)

Summary McPhillamys Discovery Timeline



- **1998 Hargraves regoleach**
- **2006 -2010 Alkane / Newmont**
 - **Aqua Regia soils**
 - **AC, RC and Diamond Drilling**
- **Total of 67 holes for 15,300 m (AC, RC, DD) completed**

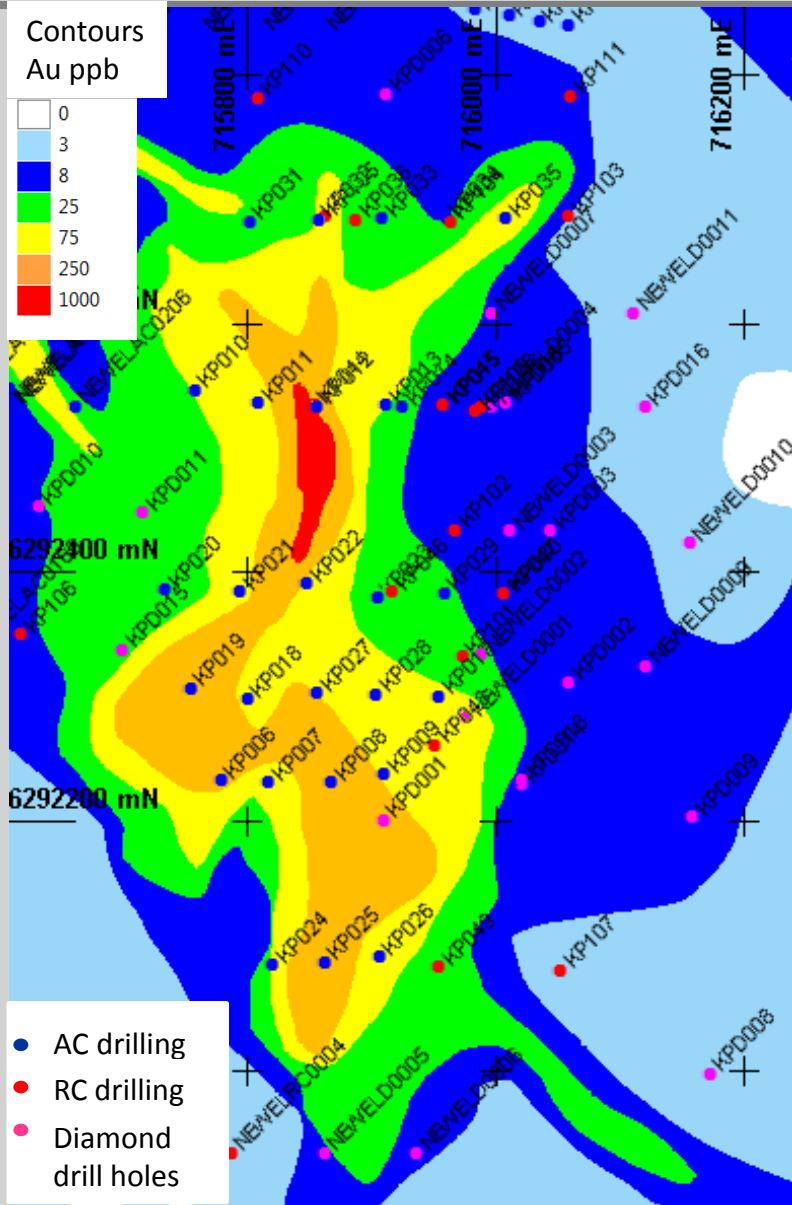
Regis Resources

Post Discovery Drilling

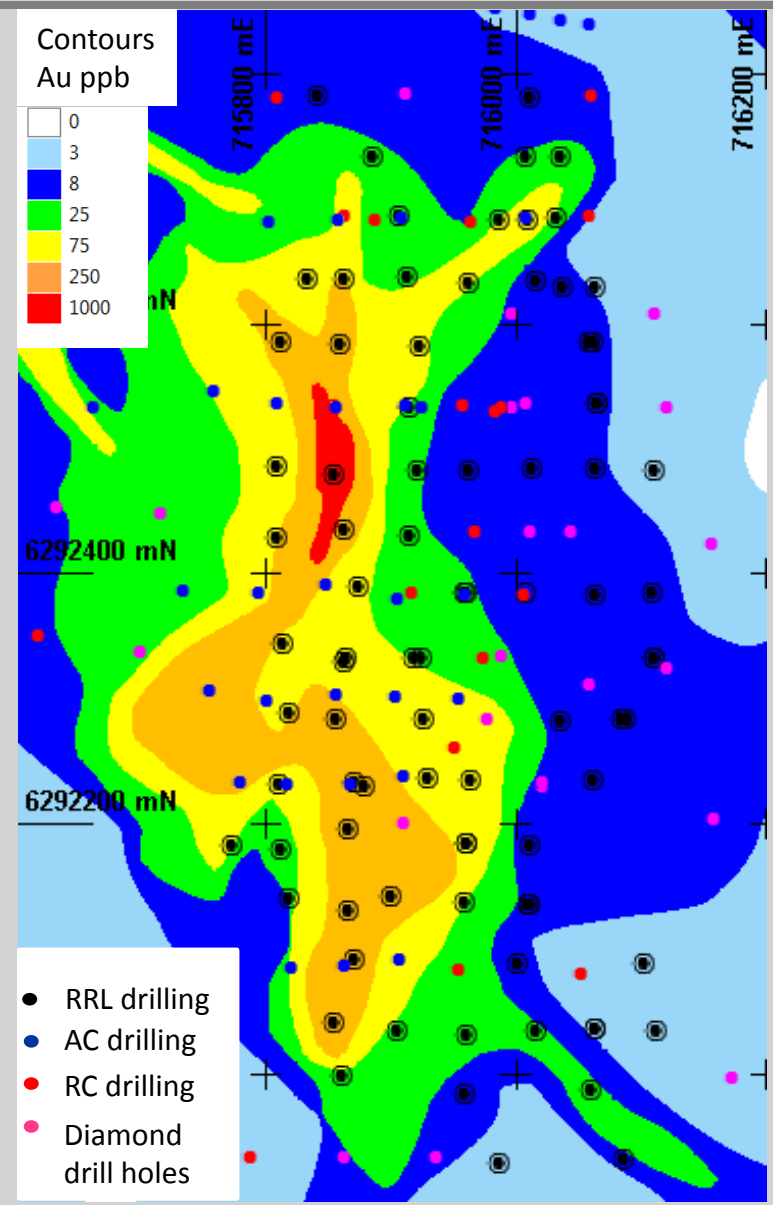


- Completed January – June 2013
- Total of 86 holes completed for 25,975m
- Comparable results
 - RRLMPDD019 330m @ 1.97 g/t Au
 - RRLMPRCD016 133m @ 2.54 g/t Au
- Updated Resource estimate announced in 2014 for
 - 73.2 million tonnes @ 0.94 g/t Au for 2.21 M oz (lower cut of 0.4 g/t Au)

Drilling Coverage

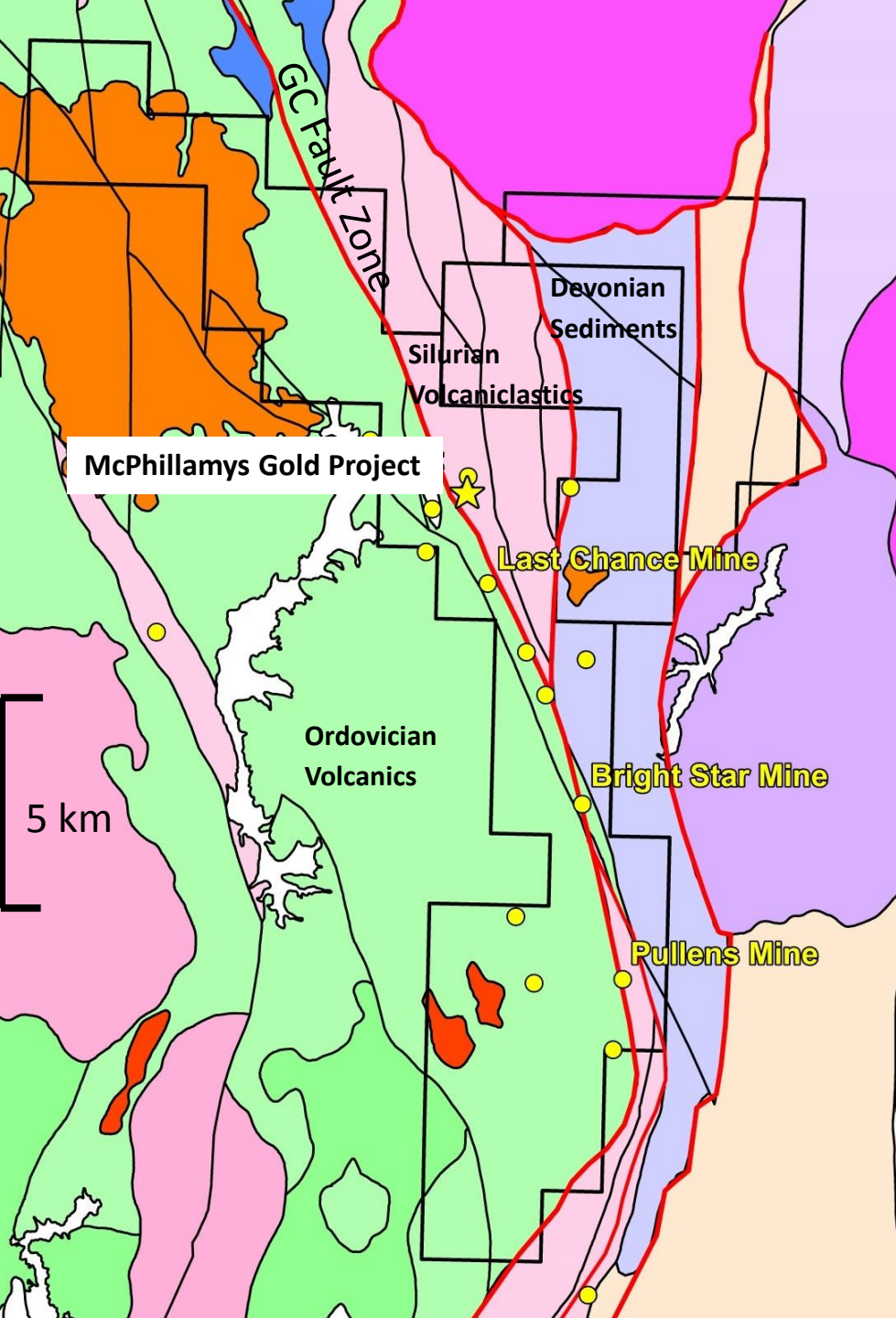


Drilling to 2008

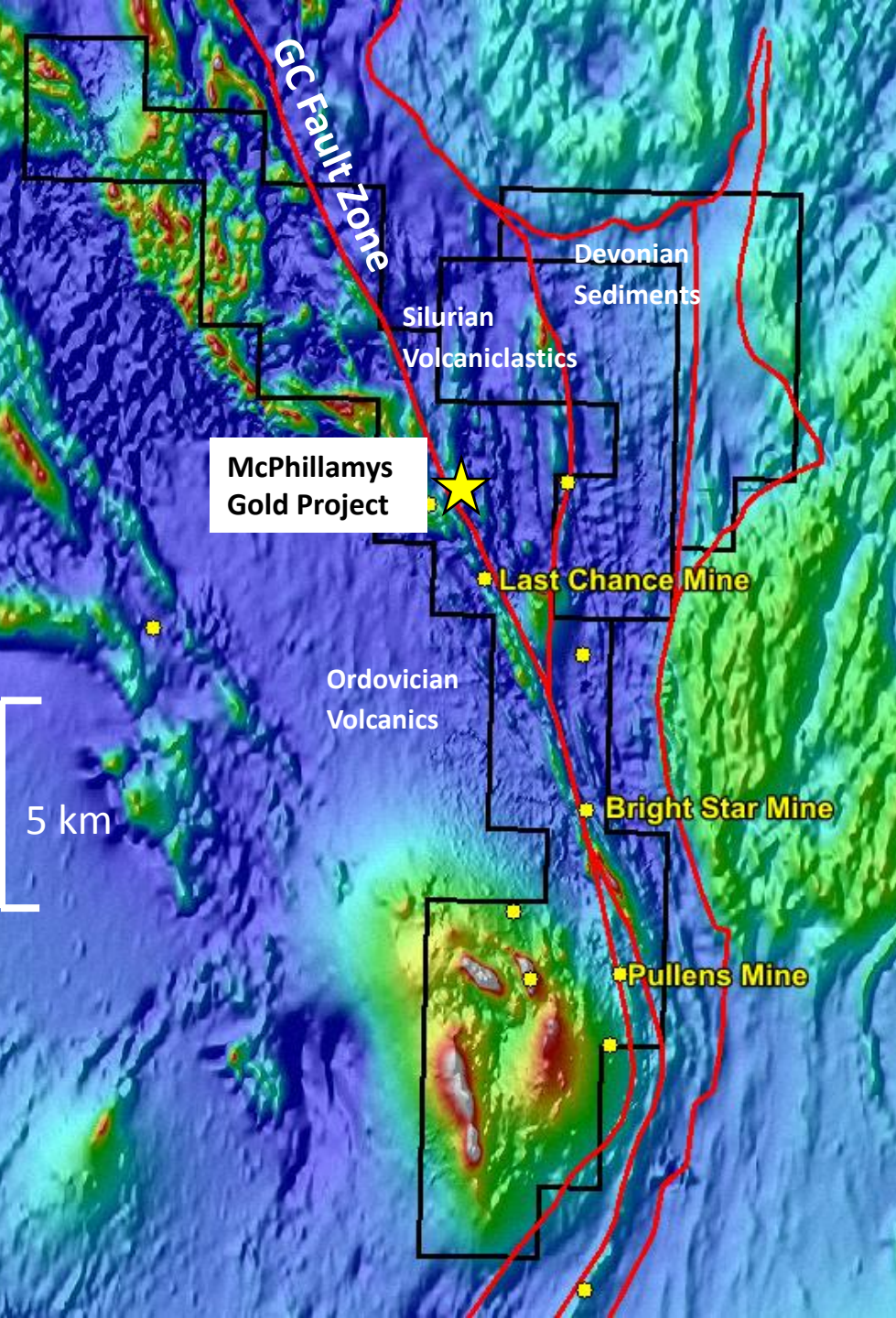


Drilling to 2013

Geology



- Accreted terrains associated with back arc development
- McPhillamys on eastern side of GCFZ
- Gold mineralisation associated with N-S trending splays off the GCFZ
- Silurian Volcaniclastic host rocks

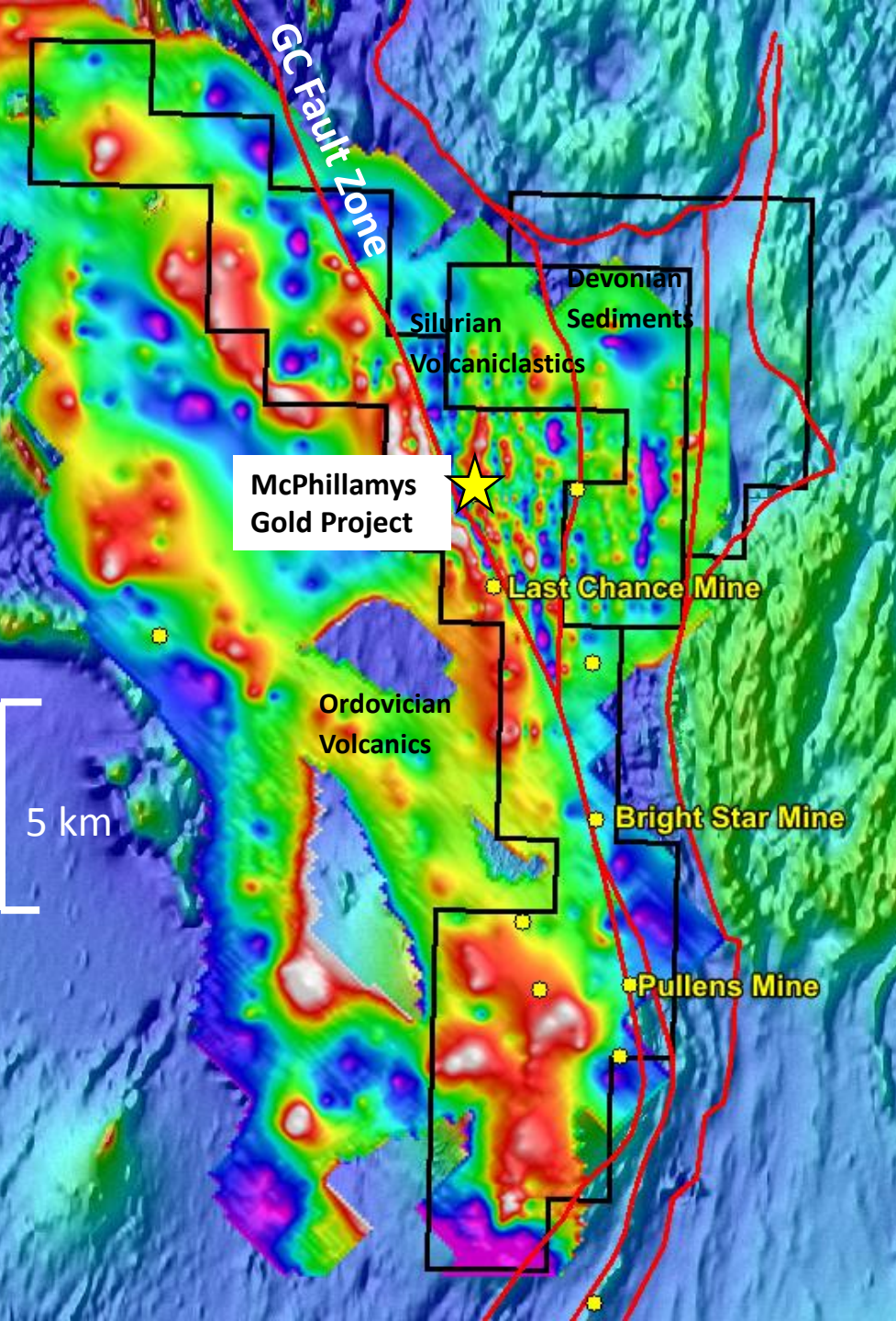


Aeromagnetics TMI

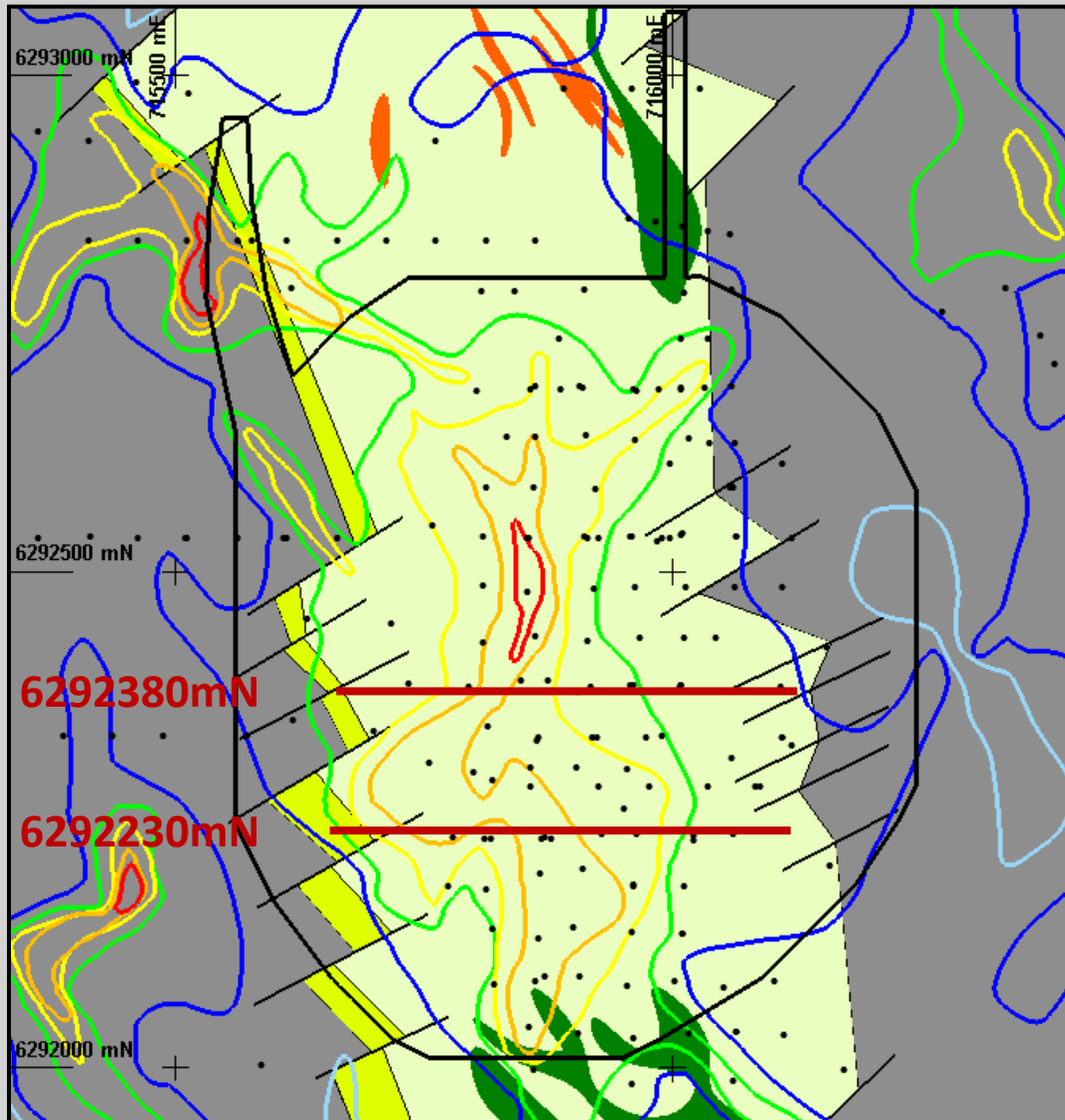
- Multiple controlling structures
- GCFZ NNW-SSE strike slip fault
- McPhillamys located along N-S trending dextral structures
- Constraining NE-SW cross faults

Gravity

- **Contrasting Ordovician volcanics and Silurian Volcaniclastics**
- **N-S splays off GCFZ incorporate rafts of the Blayney-Bing Volcanics**















Geology and Geochemistry



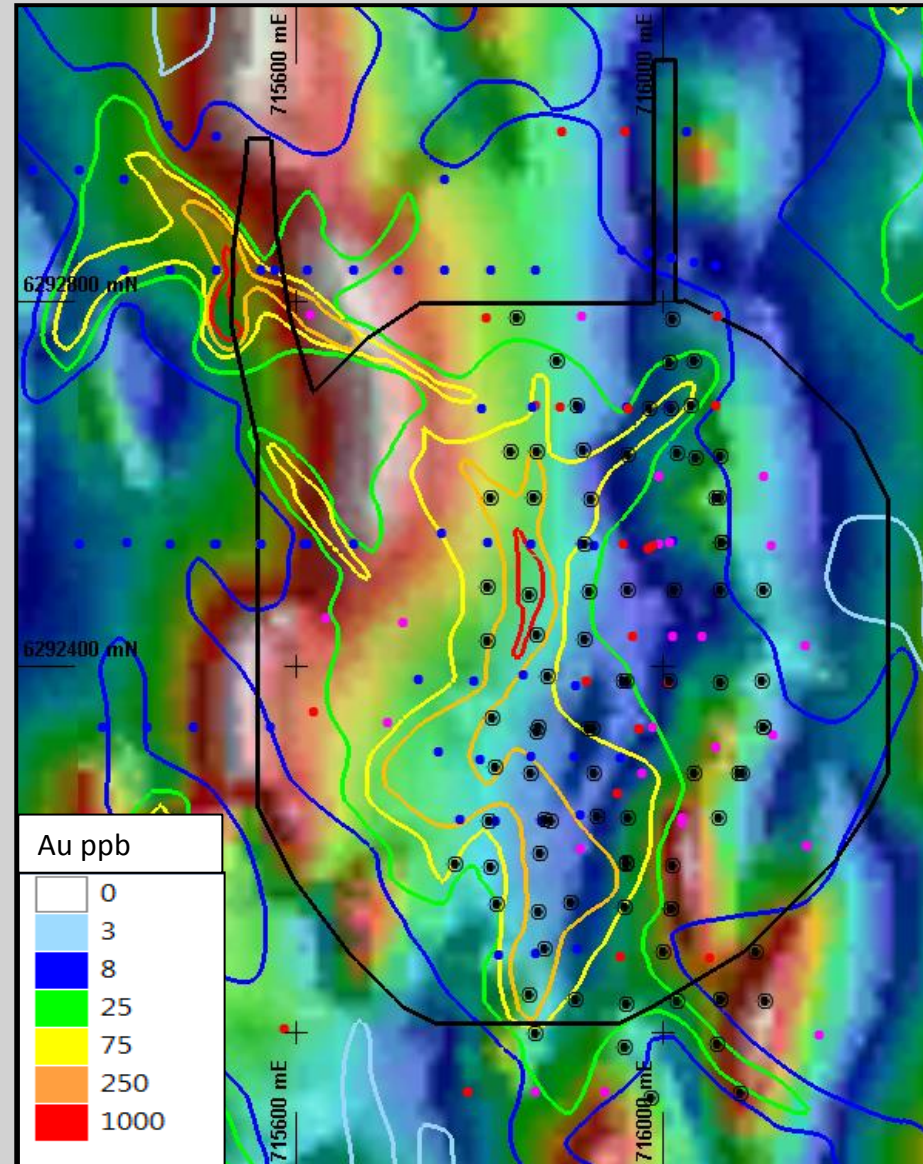
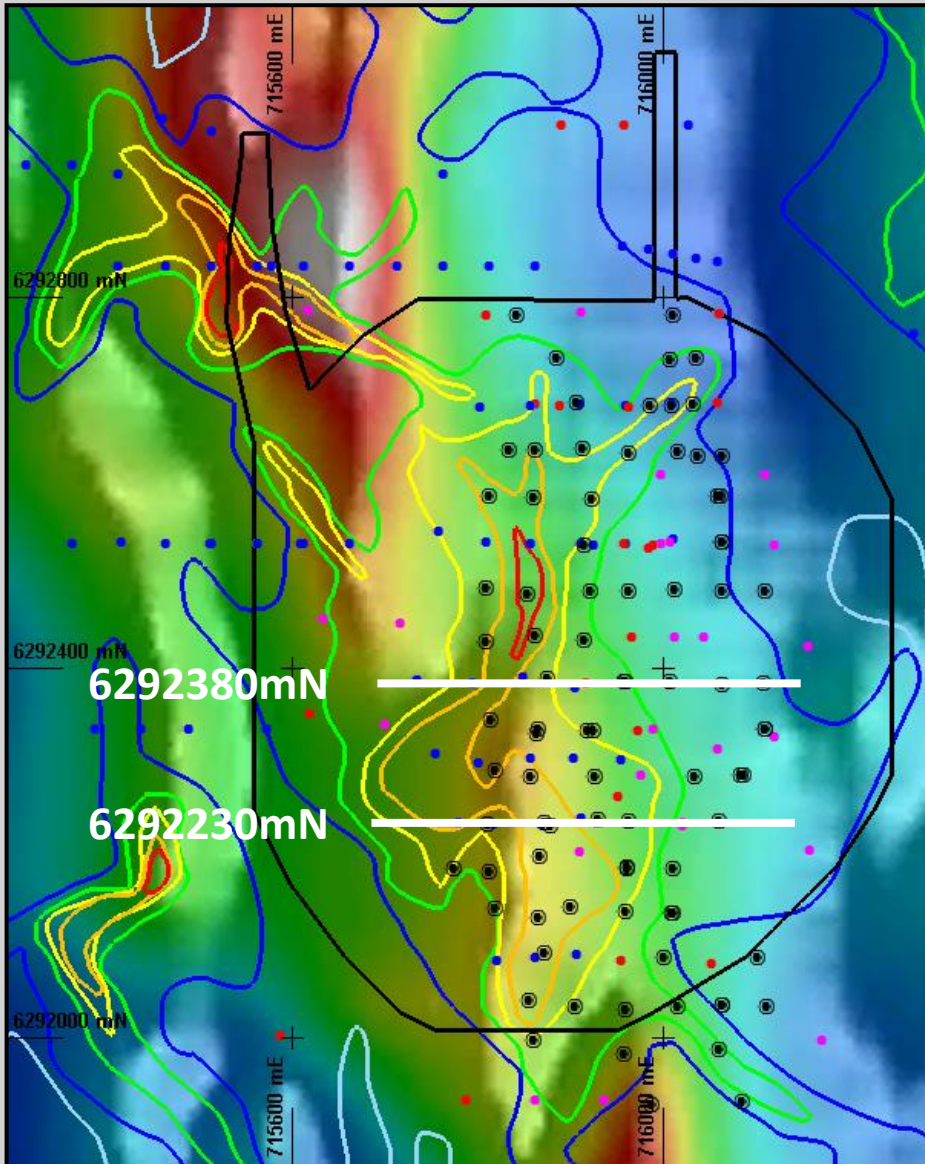
Strike 340°

Dip 80°E to vertical

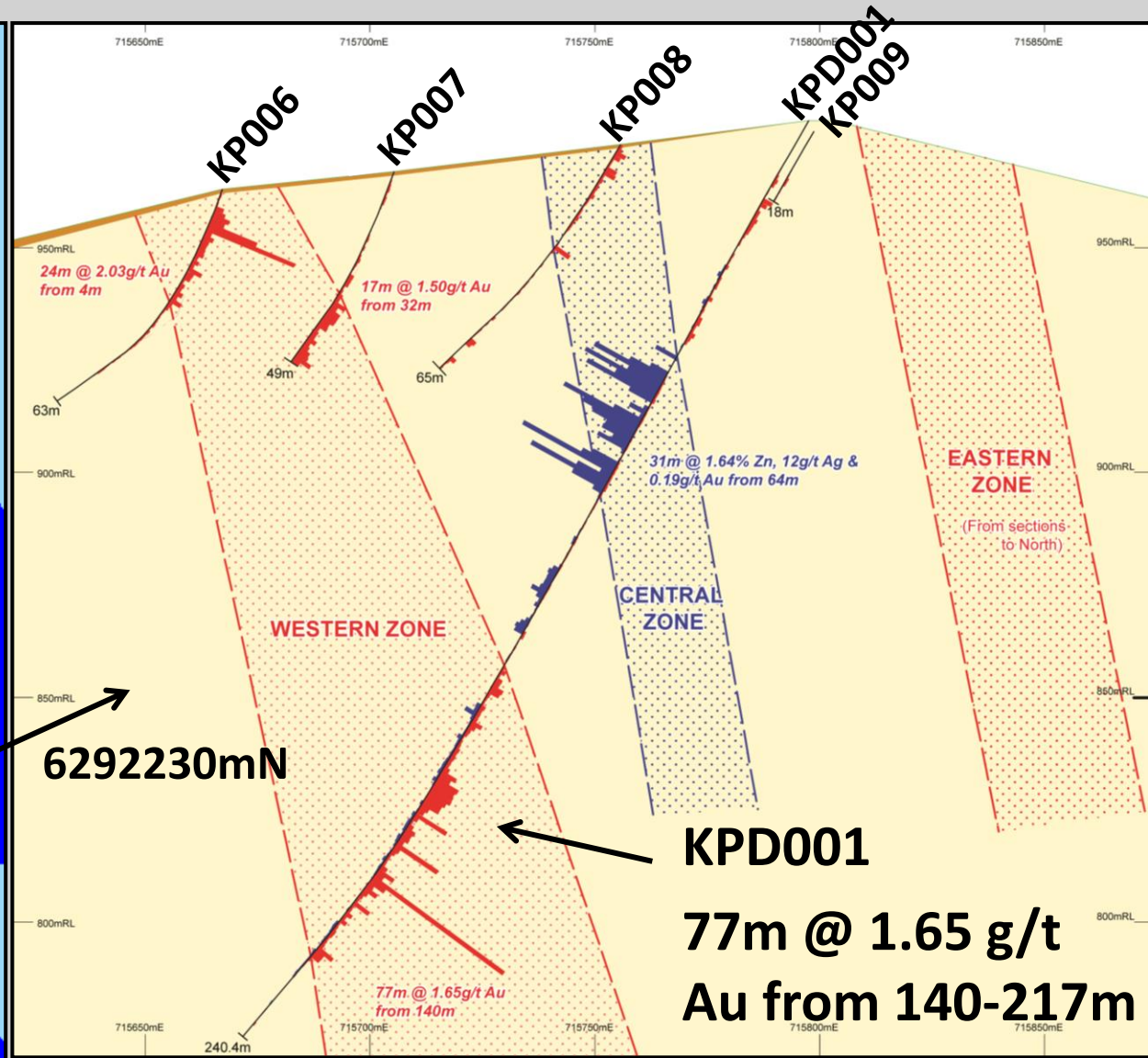
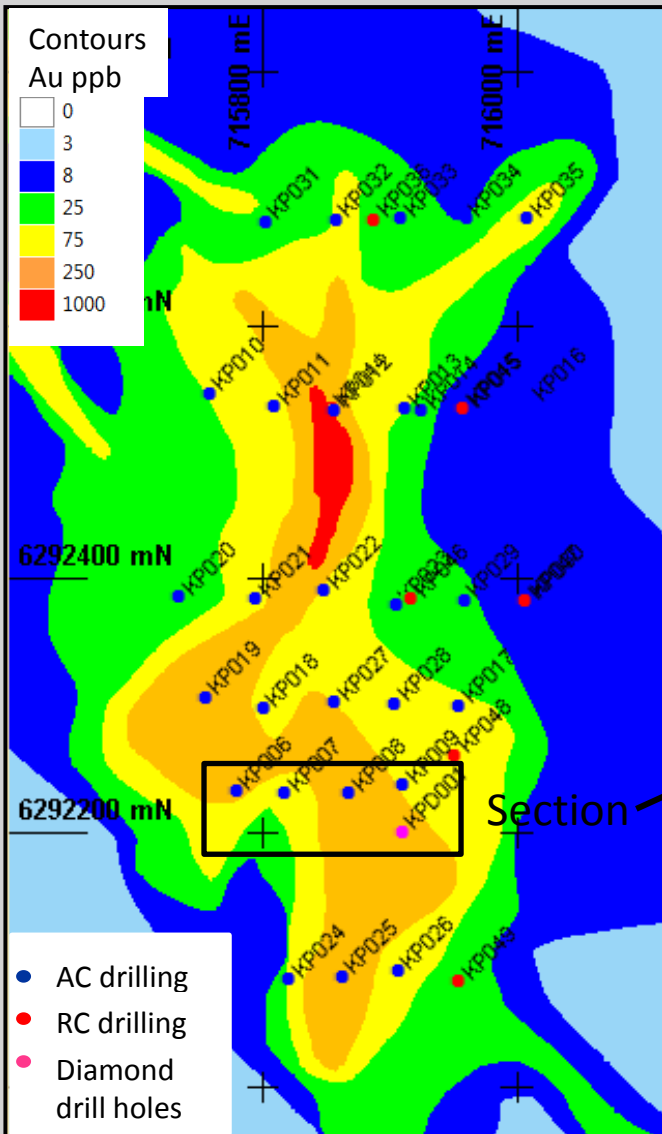
Geology	
	siltstone
	carbonate
	volcanics
	mafics
	dacite

Au ppb	
	0
	3
	8
	25
	75
	250
	1000

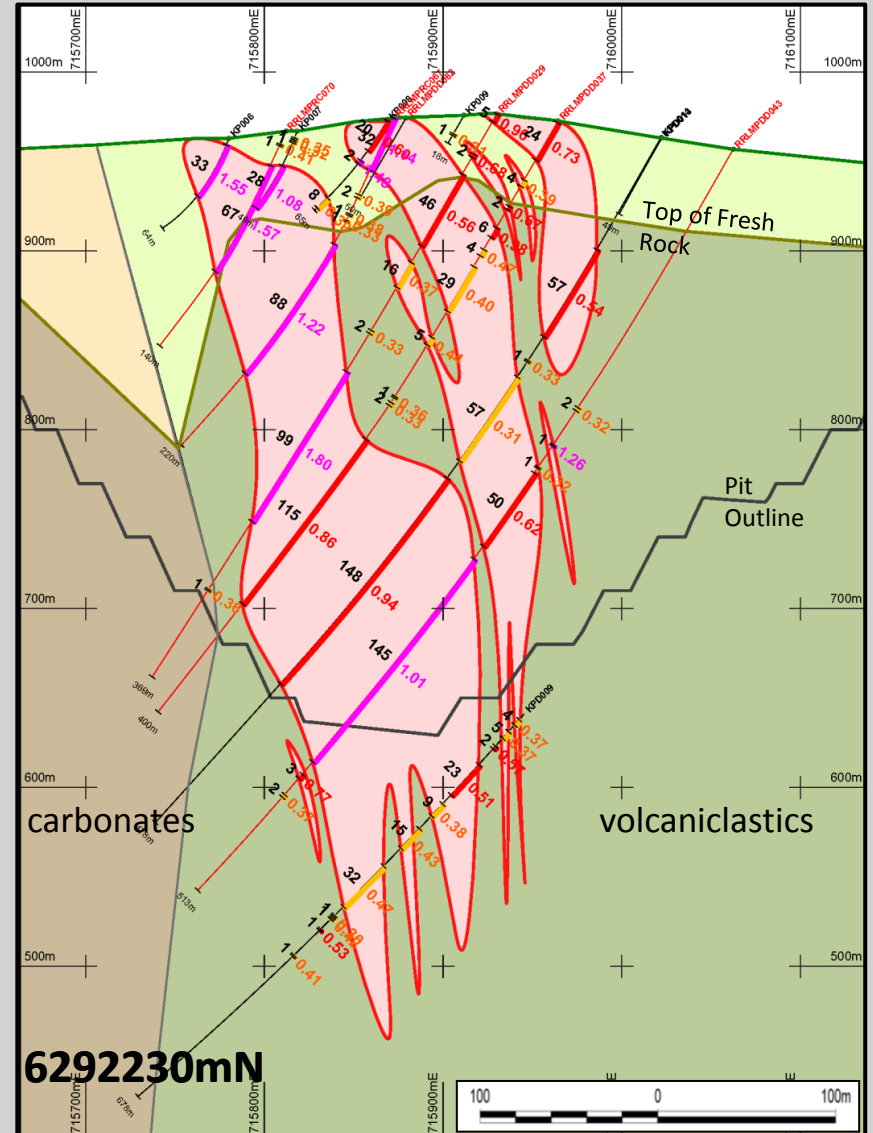
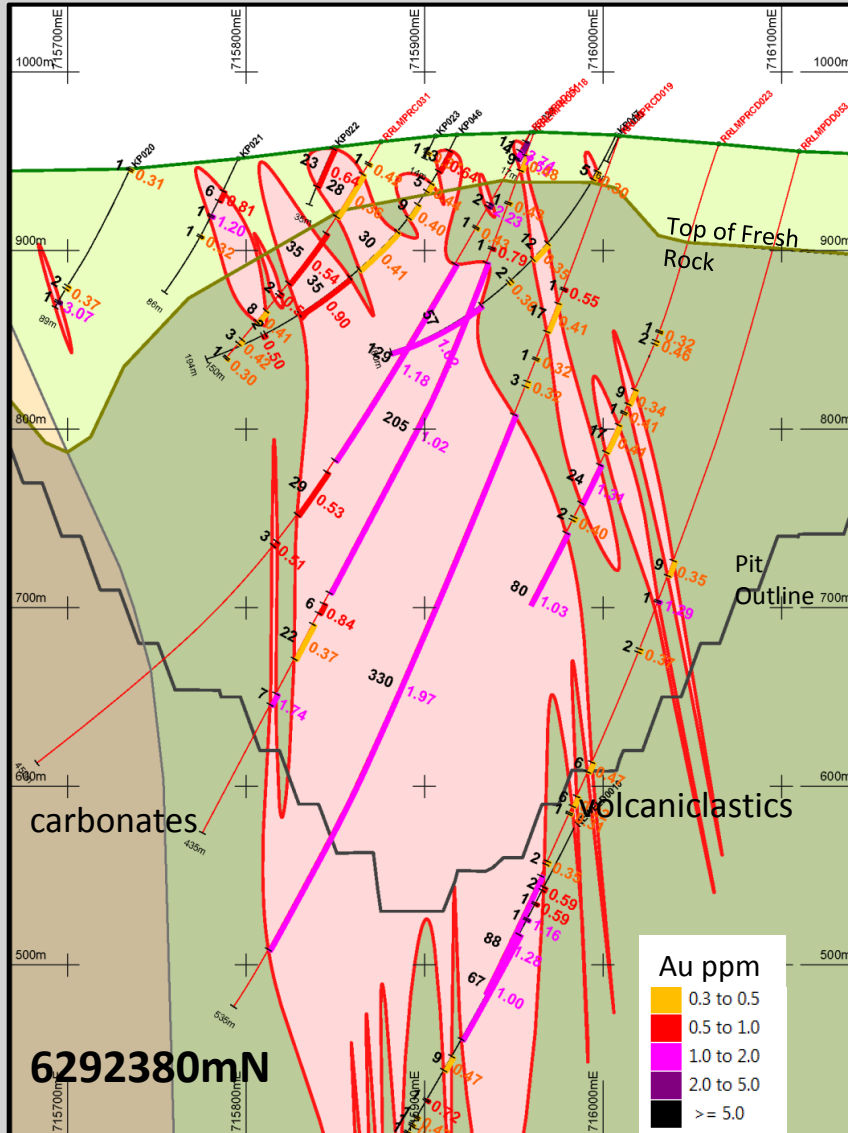
IP and TMI



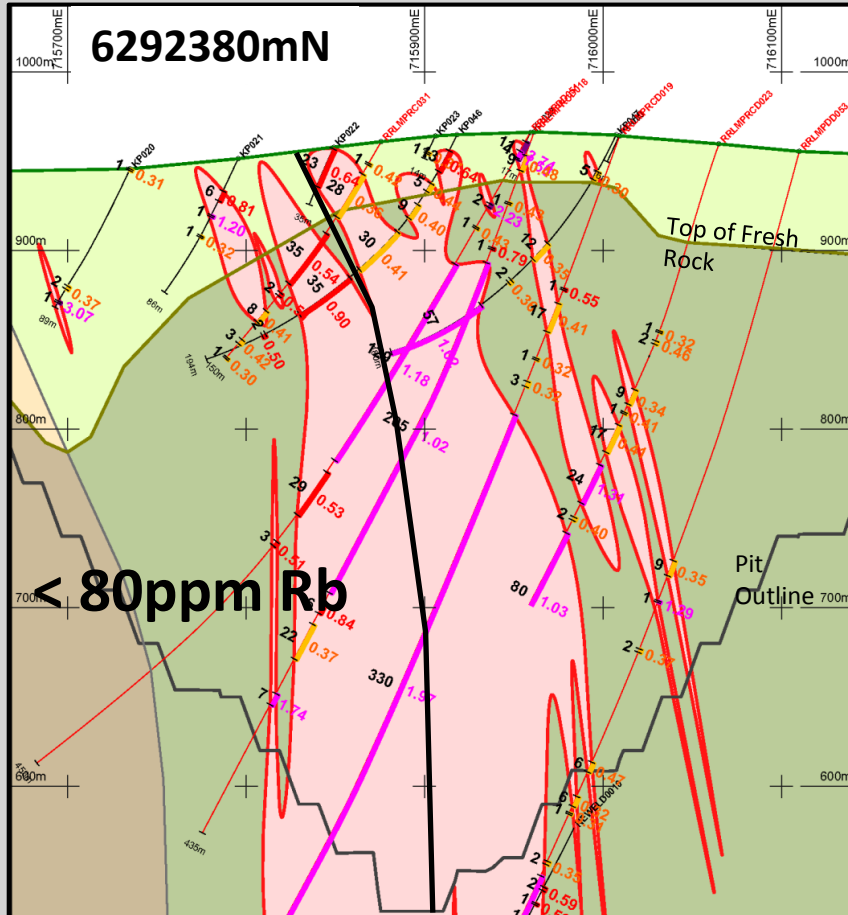
Initial Drilling Results



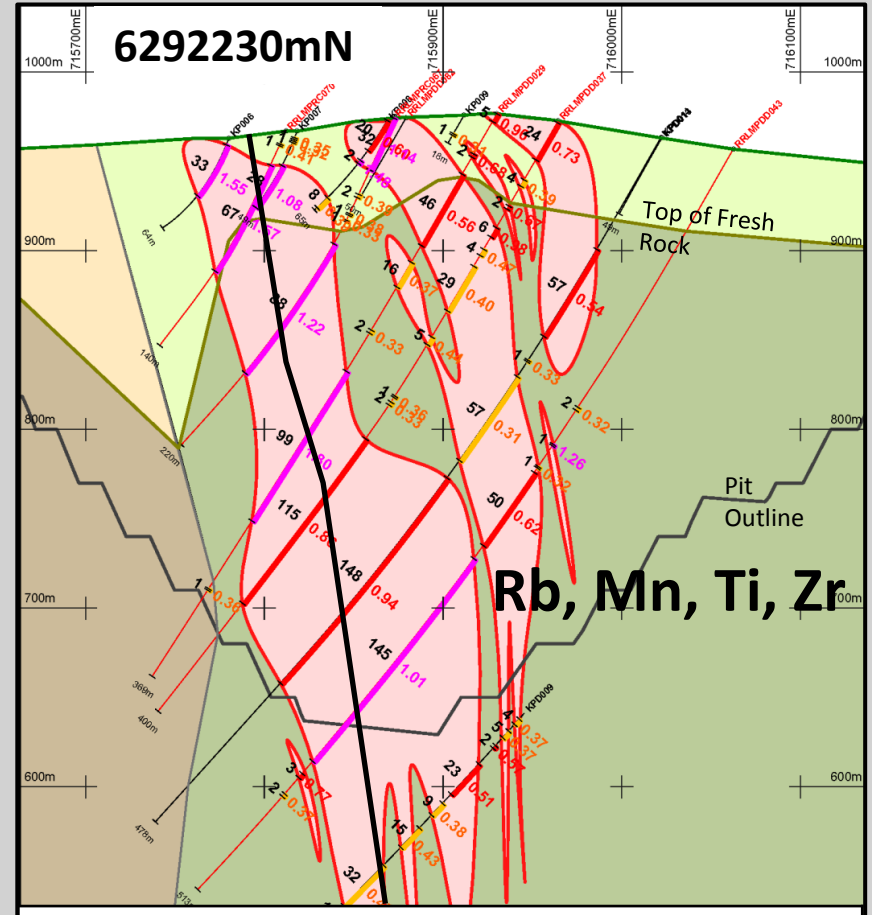
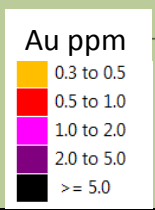
Drill Sections 150m apart



XRF Results

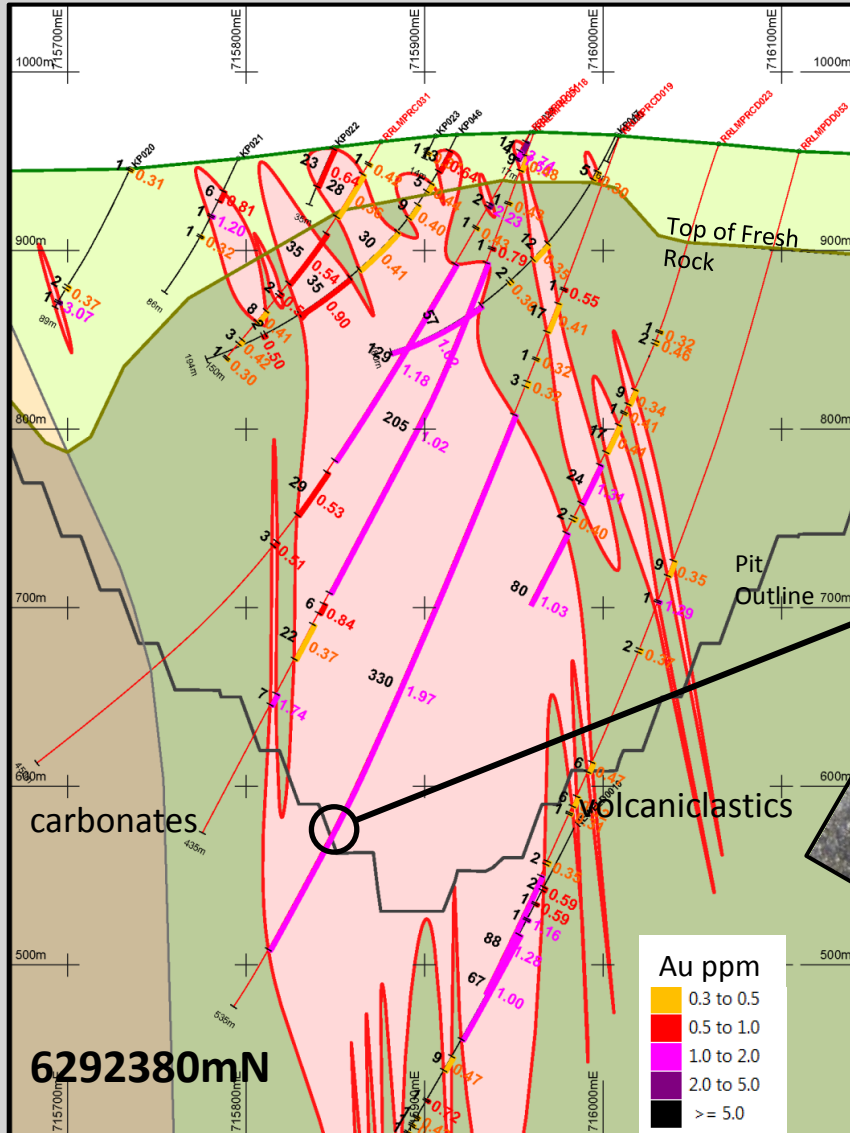


Main Gold Ore Zone
 As, (Ba), Bi, Cu, K, Rb,
 S, Te - Dacitic

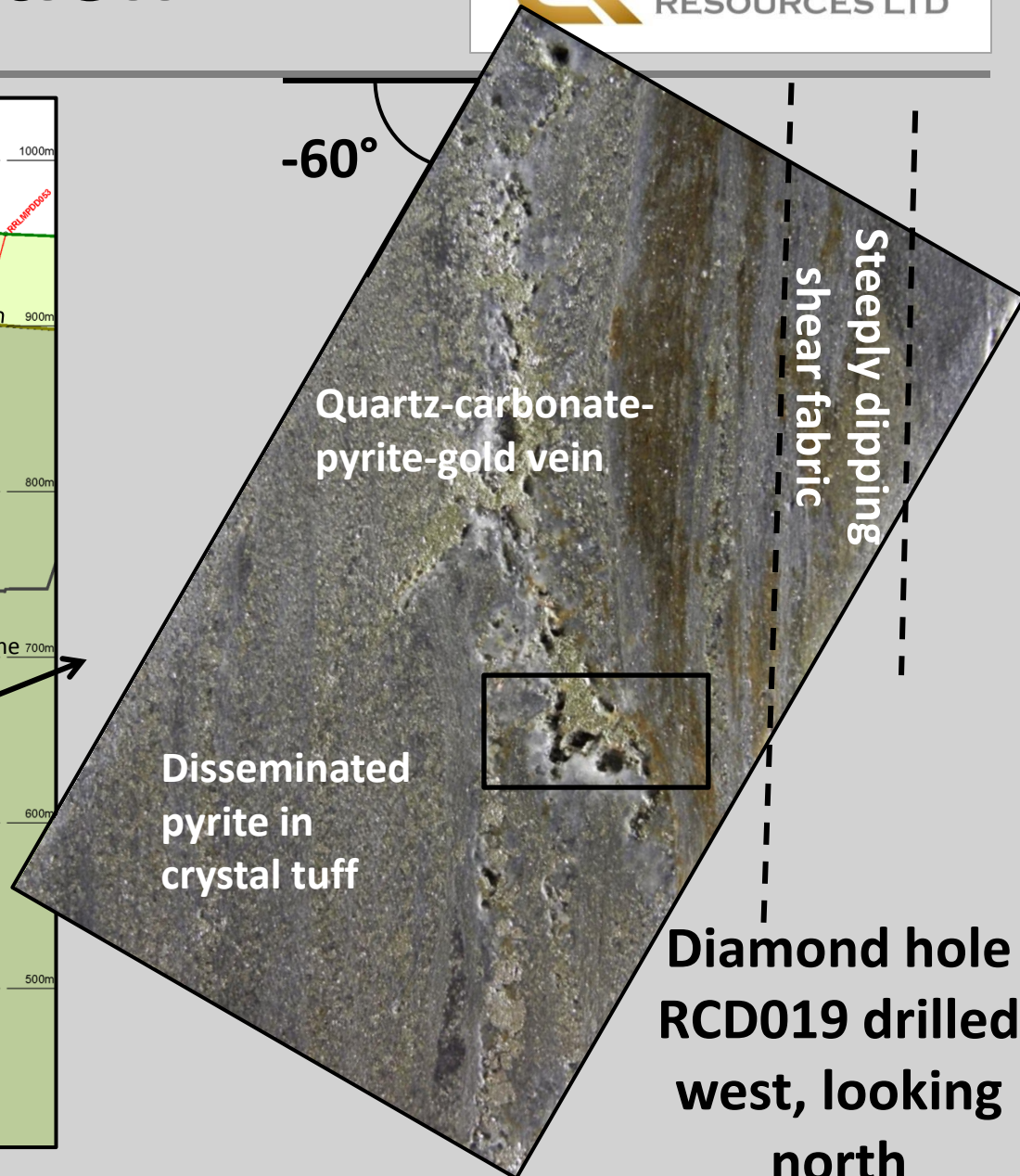


Eastern Gold Ore Zone
 As, (Ba), Bi, Cu, K, (Mn), Rb, S,
 Te, Ti, Zr - Andesitic

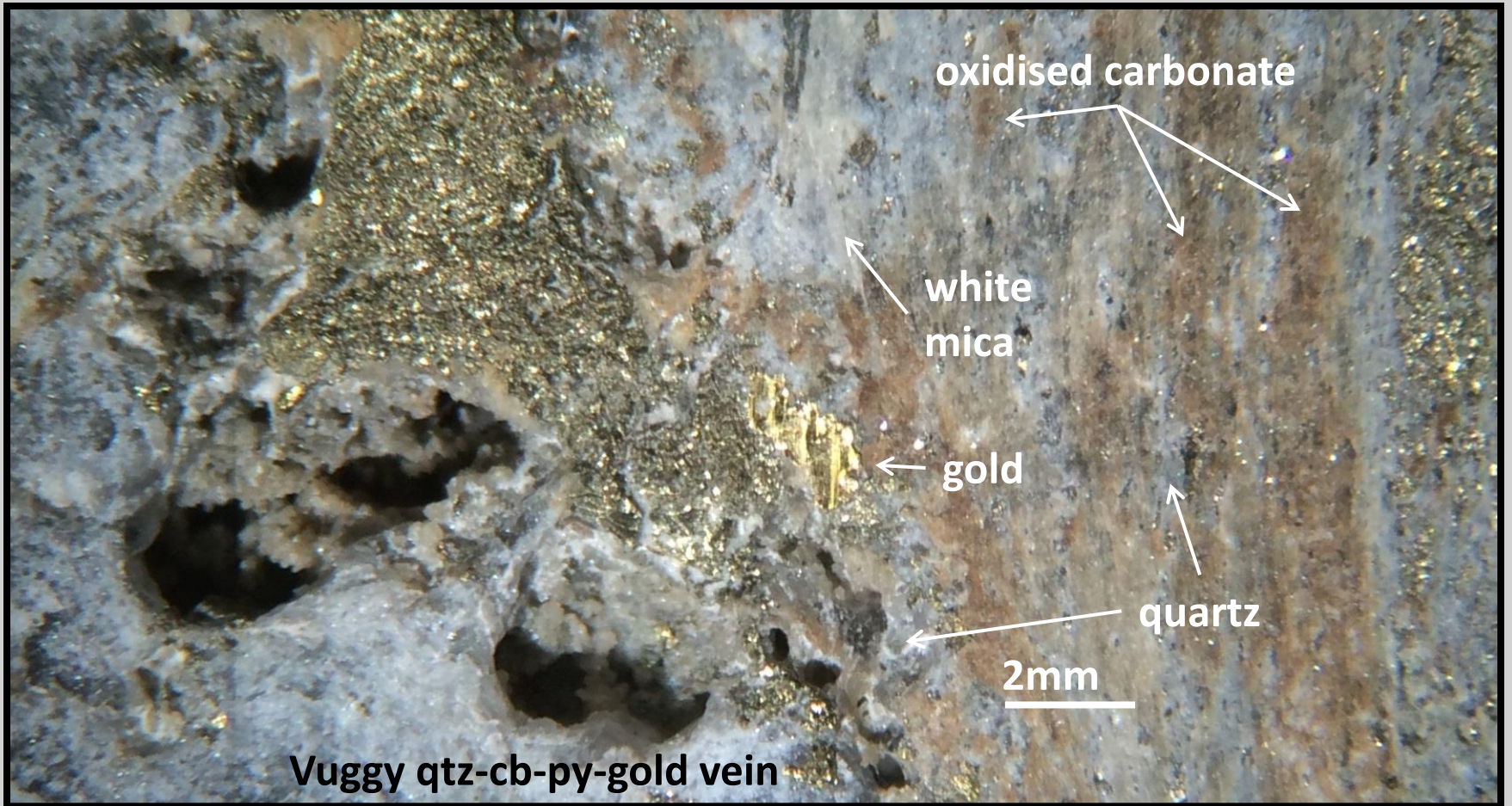
Mineralisation



-60°



Alteration



Alteration – RC drill chips

Sheared dacitic volcanoclastics



Alteration

MPRCD016
4.32 g/t

-60°

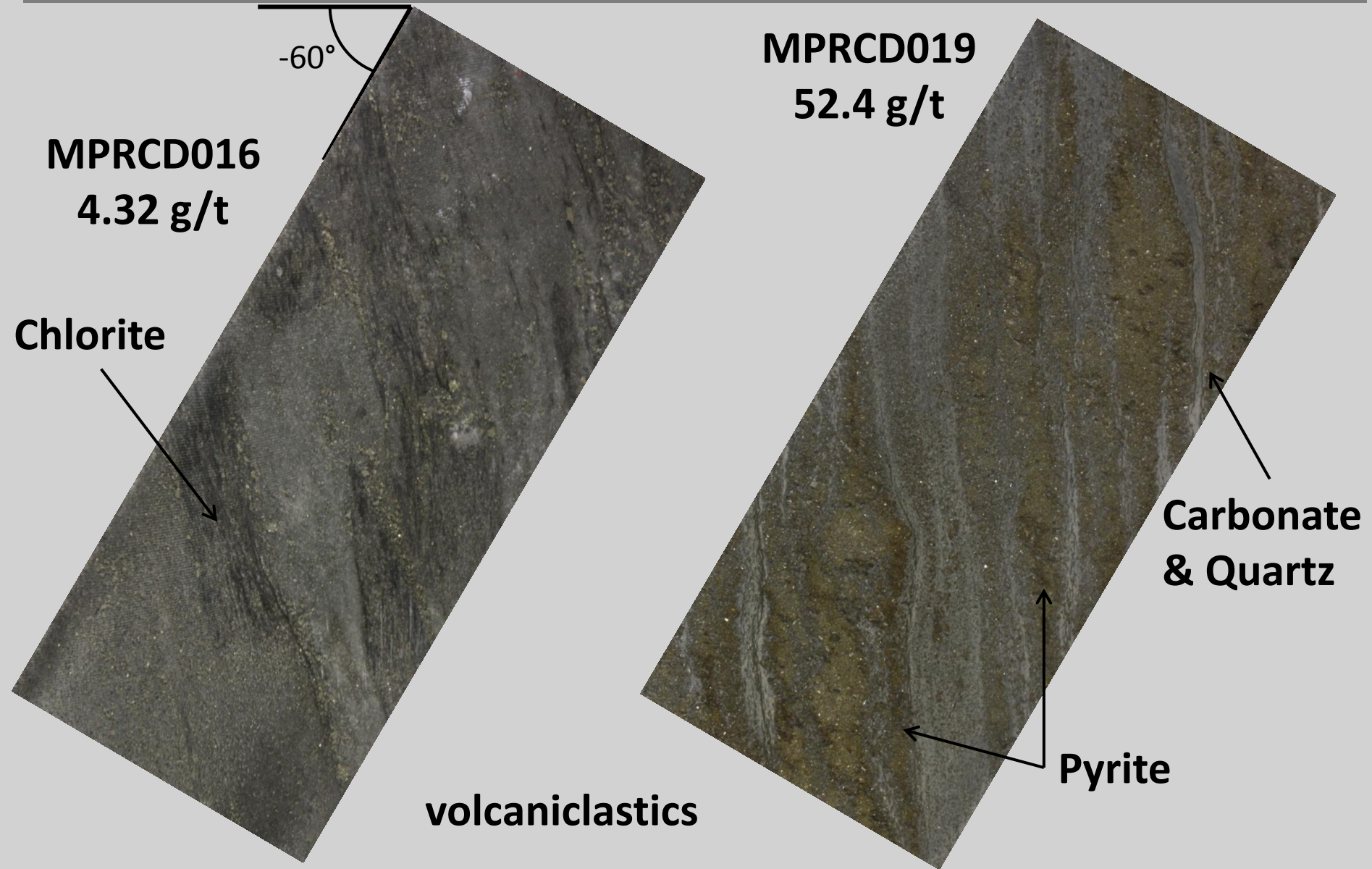
Chlorite

MPRCD019
52.4 g/t

**Carbonate
& Quartz**

Pyrite

volcaniclastics



Diamond Core & RC Drill Chips

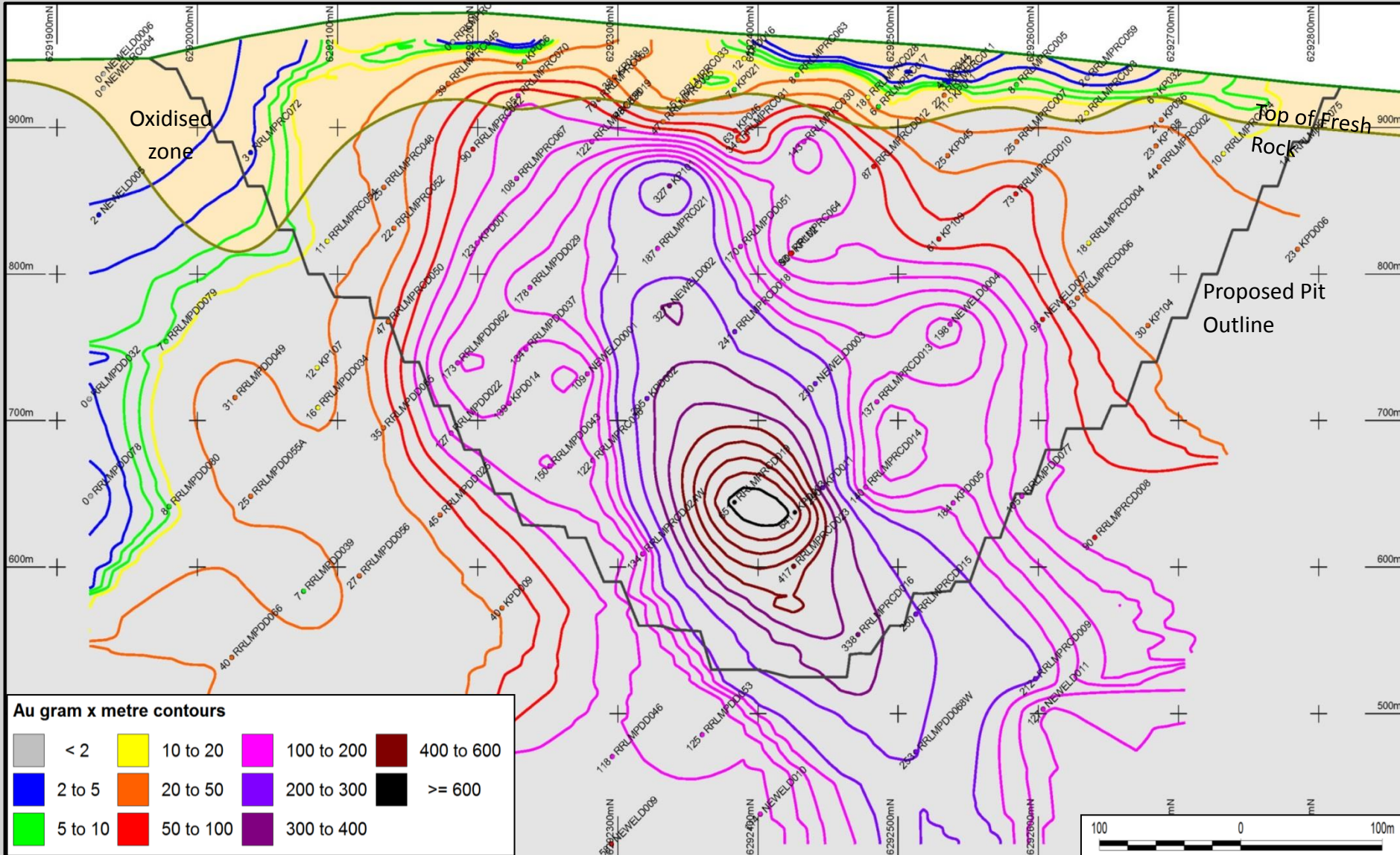


Quartz-carbonate-white mica-chlorite-pyrite- altered dacitic andesitic volcanoclastics

RRLMPRC042 - 110-120m



Gold Gram x Metre Long Section



Conclusions

