



rimfire pacific mining nl
(ASX "RIM")

Emerging Greenfields Gold Discovery in NSW

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AGM
22nd November 2012

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Presentation Outline

- Main Discussion Items



Introduction to Company and Project Area

History of Fifield and Rimfire Gold Discovery

Recent Results and Work programs

Geological Model Development and Scale

Looking Forward – Discovery and Delineation

Summary Position

Rimfire Pacific Mining NL – Project Areas

❑ Fifiel Platinum and Gold Project Area

- ❑ Alluvial Gold Discovery 1880's
- ❑ Only dedicated Platinum mining in Australia, alluvial resource was not exhausted, hard rock not understood
- ❑ Platinum 20,000oz recovered 1890's
 - ❑ Commonwealth's largest producer
- ❑ 2010 New Major Fine Gold and Silver Potential – **Sorpresa Project**
- ❑ Base Metal Potential



Company Profile

(as at 20th November 2012)

Shares on Issue

- Placement and SPP 85M shares at 3.0 cents, Sept 2012, \$2.54M gross
- 610M Ordinary FP

Market Cap. Approx. \$42.0M @6.9 cents

Share Price Movement

- 2011 High 6.0 cent, Low 3.1 cent
- 2012 High 9.3 cent (Oct), Low 2.5 cent

Volume

- Feb-Sept approx. 5m shares/mth
- October 132m shares

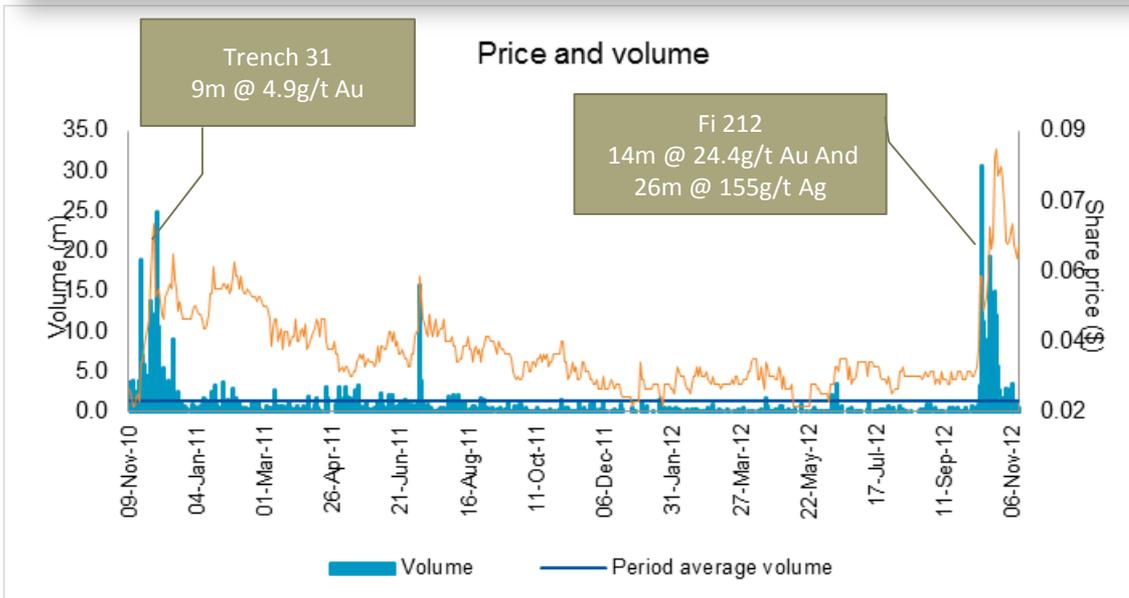
Shareholders Profile

- Management 10%
- Top 20 Holders 35%
- Top 100 Holders 65% (cut-off 1.2M shares)
- 2,130 shareholders

Cash Status 30 September 2012

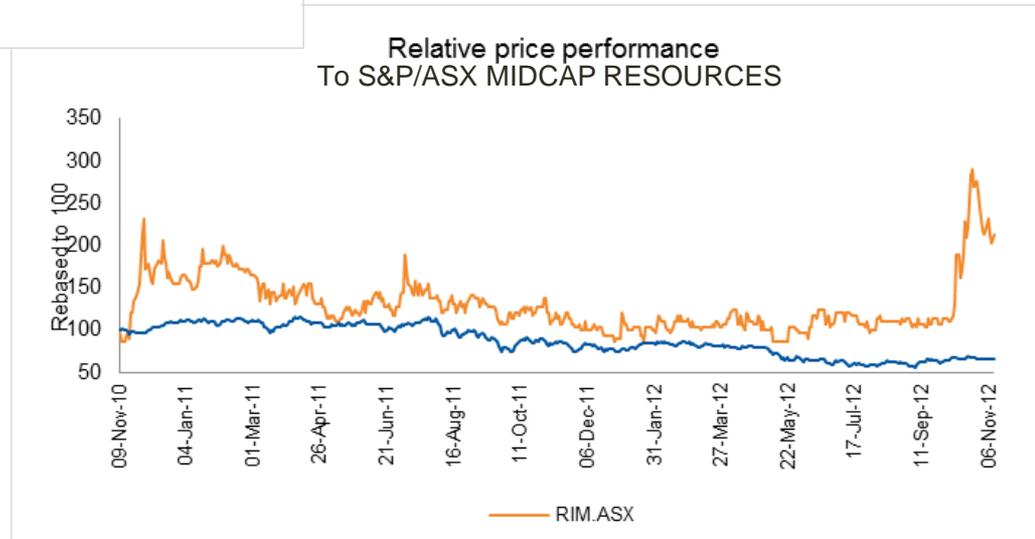
- \$3.36m

12 Month Share Price Performance

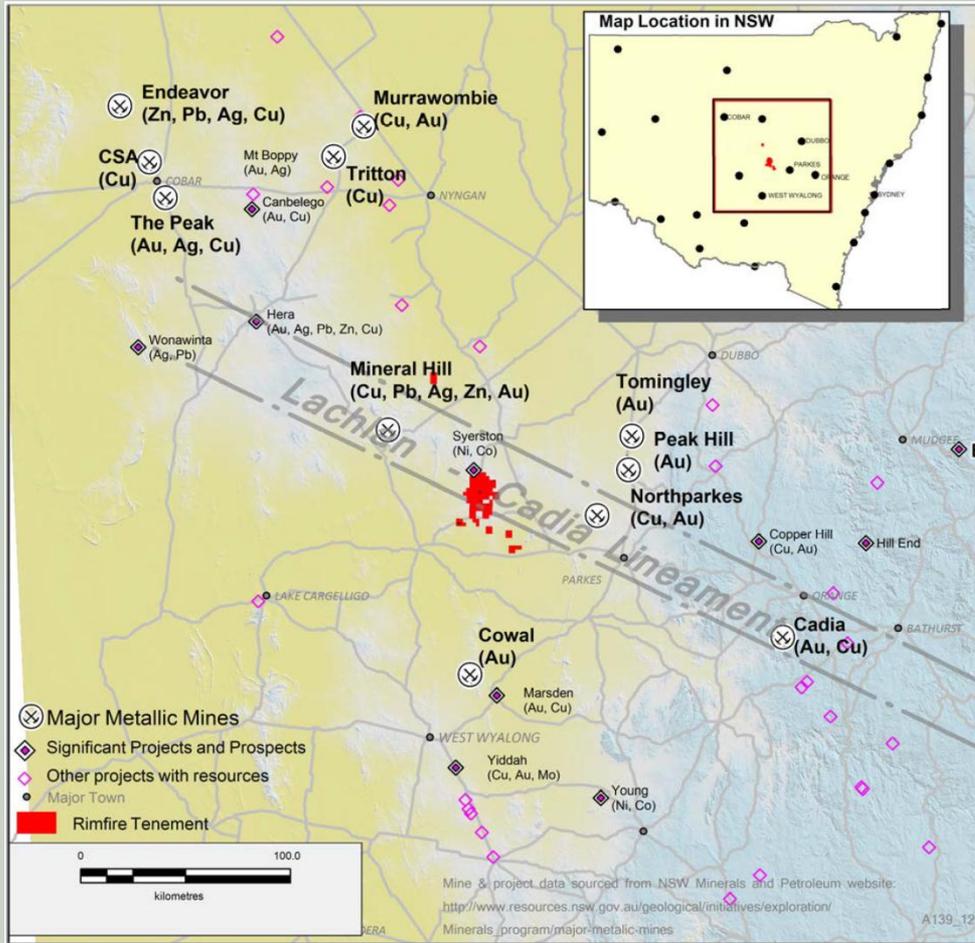


Share price performance solid in tough markets

Relative price performance To S&P/ASX MIDCAP RESOURCES

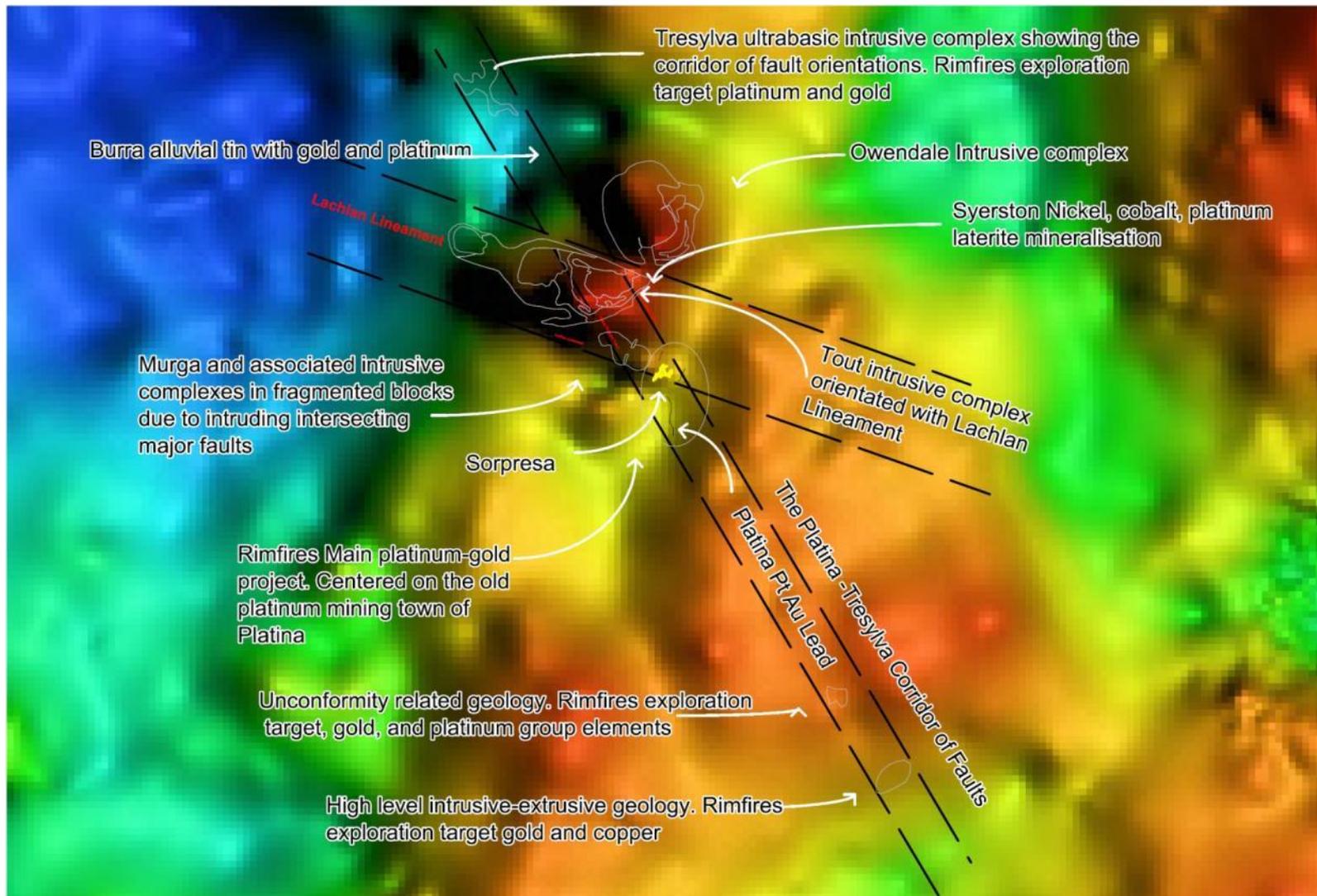


District Location – Good Address!

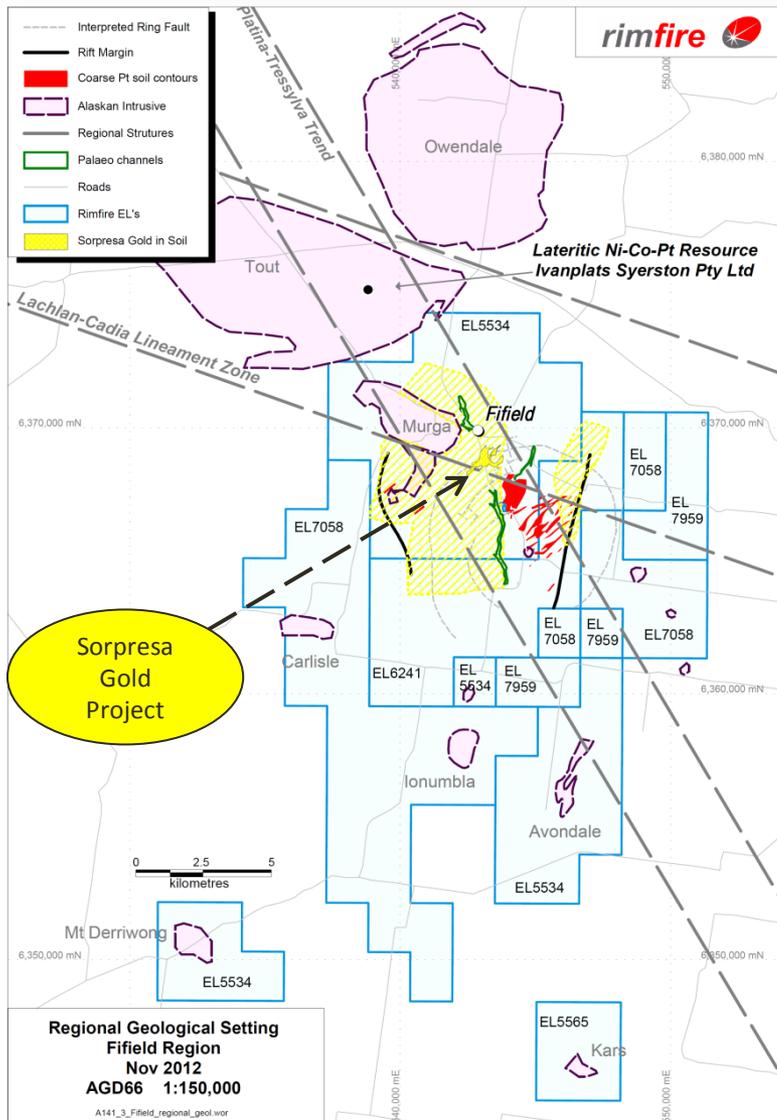


- **Lachlan Lineament**
 - Major Mineralised corridor
- **Tout Complex at Fifield Orientation**
 - Confirms lineament position
- **Au and Pt in some Shears with this orientation at Fifield**
- **Cadia, North Parkes, IvanPlats, KBL, YTC, CCU**

Gravity Interpretation of Regional Structure



Fifield Rimfire Major Project Areas

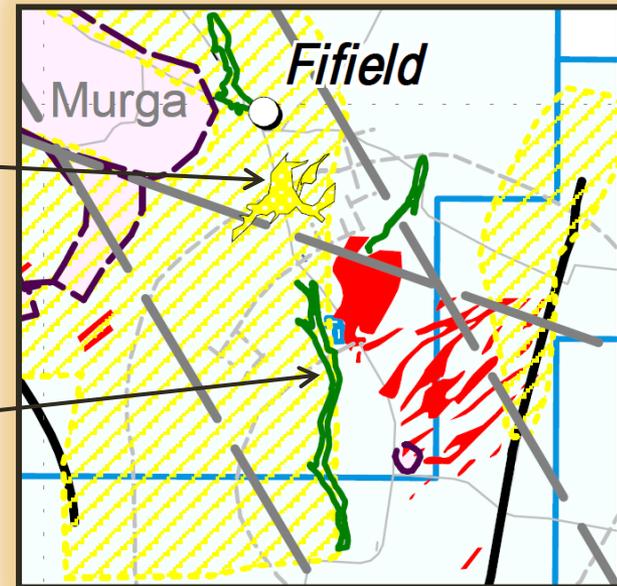
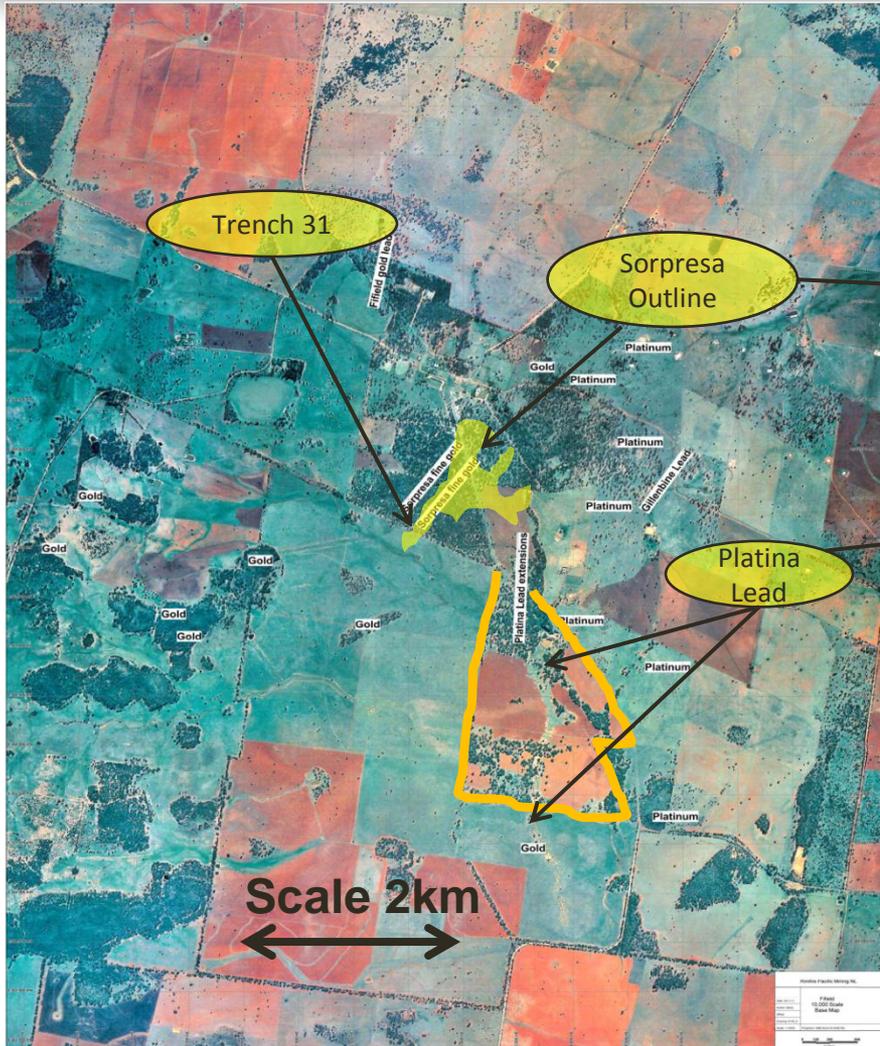


- ❑ **RIM has seven exploration licences**
 - ❑ Approx. 300 km²
 - ❑ 2 Mineral claims (Mining Licences) and a Bulk Disturbance permit "Pit One"
 - ❑ Permit for 6 x 100m trenches Platina Lead
 - ❑ **210 Hectares of Freehold**
- ❑ **Platina- Tresylva Corridor of Faults**
 - ❑ Complex mineralised area
 - ❑ Contains Pt, Au and Ag
- ❑ **Quality focus on 60km² area within this**
- ❑ **Good infrastructure (Road, Electricity, Land)**



Platina Lead looking north - influenced by Platina-Tresylva trend

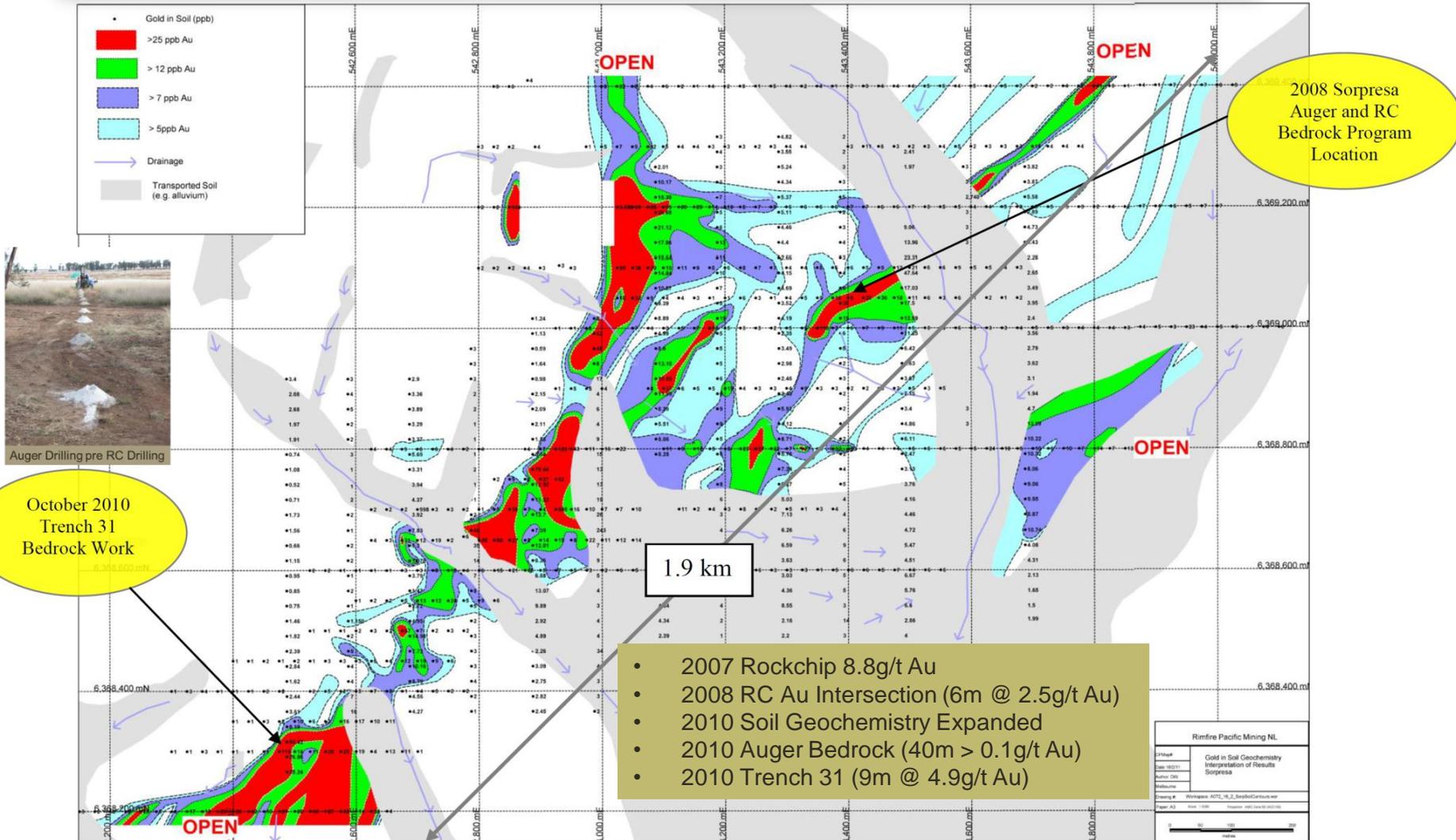
Sorpresa Location at Fifield



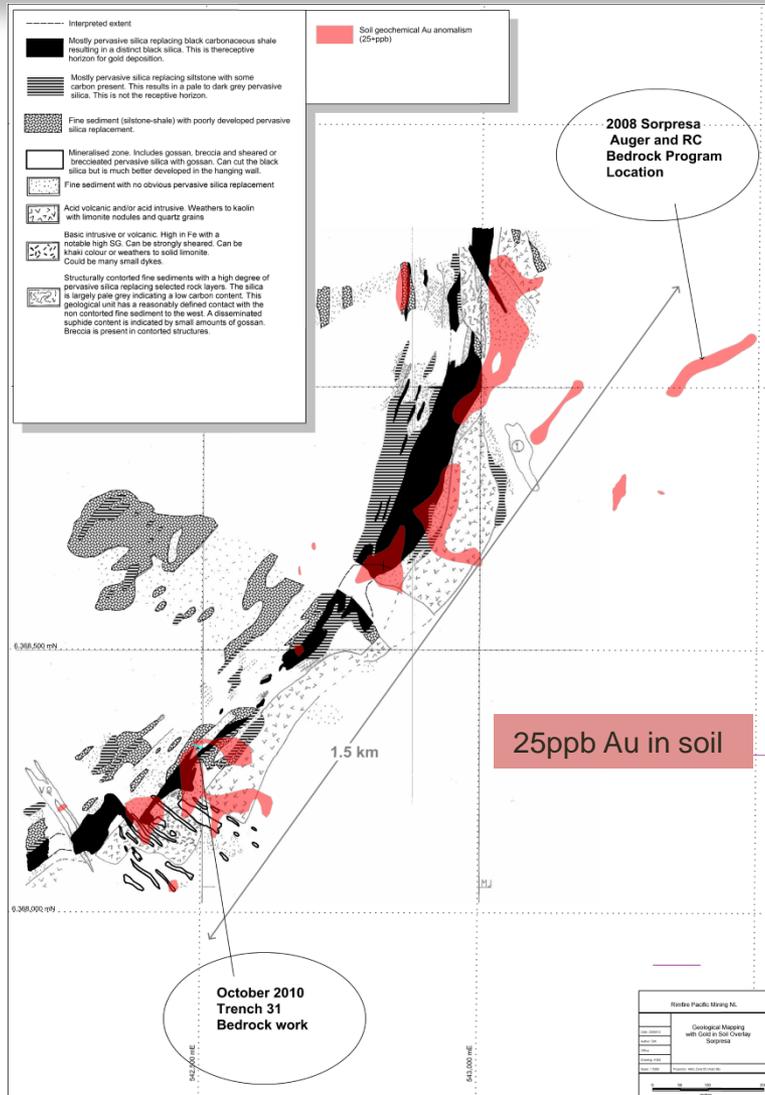
In 2010 the Sorpresa geochemistry was discovered 800m north of Company freehold

Sorpresa Fine Au Discovery

Subtle Soil Geochemistry



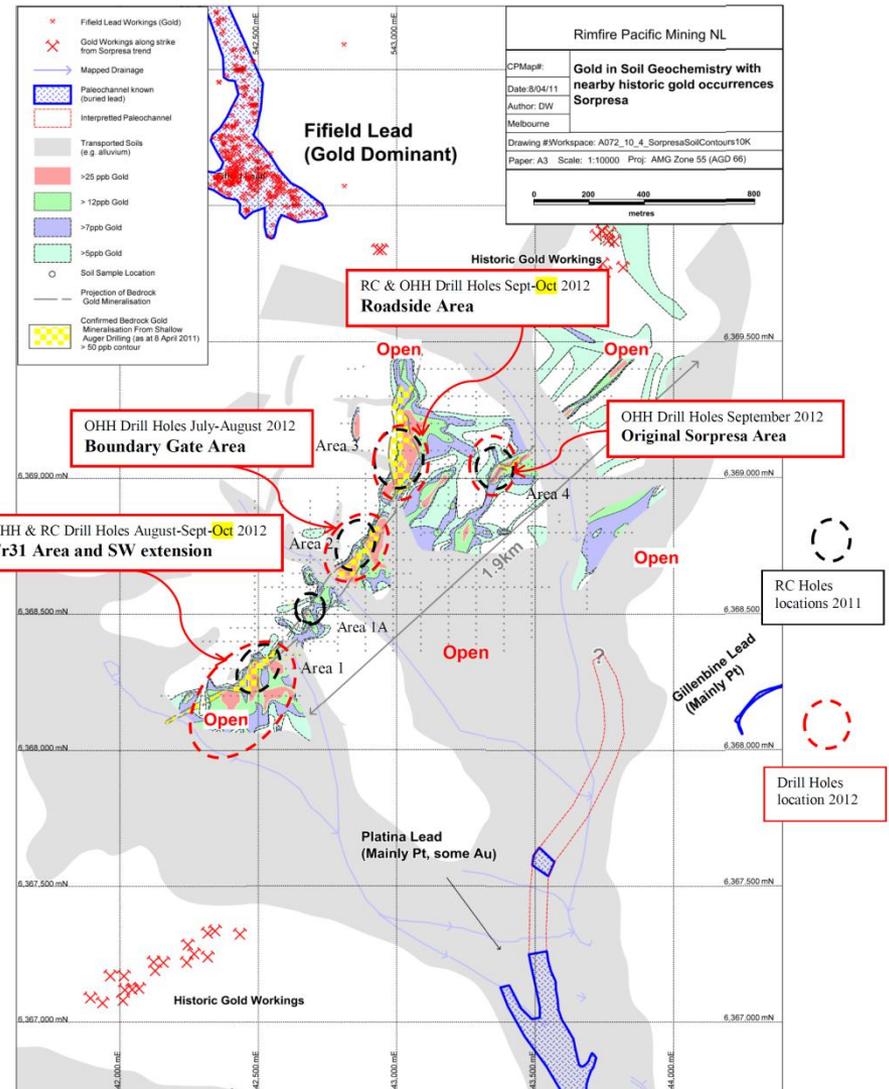
Geology meets Au soil geochemistry



- Au Geochemistry in context
- Limited to reliable areas
- AV Rock – a cap
- Au Geochemistry – Geology – IP
 - A neat correlation
- Pathfinder elements Pb, As, Sb, Ag also present

Drilling in 2011 and 2012

- **3,500m in 2011 (40~80m depths)**
 - First pass
 - 34/56 holes had Au at 2m >1g/t
 - High grade 63g/t Au;
- **9,000m (est.) 2012**
 - High grades 87.5g/t and 118g/t Au (1.2km apart)
 - Some deeper holes (100~160m)
 - Stepout and scout
 - **Important 2,500m assays pending**
- **Moving beyond soil geochemistry**
- **IP Chargeability anomaly**
 - Shallow test (80~150m) underway
 - Deeper test required 150~350m



Sorpresa Fine Au Discovery

Some Drilling Highlights

- ❑ **Greenfields RC drilling – 3,546m in 2011 & 4,700m in 2012 to date**
 - ❑ Sorpresa Currently 4 areas across strike length of 1.6km
 - ❑ Strong pathfinders in real time, As, Pb, Sb
 - ❑ 52 of 150 holes (34%) have Au at approx. 10g metres Au or better
 - ❑ Intersection encountered below base of oxidation e.g. Fi107 (6m @ 6.5g/t Au)
 - ❑ Strong Au Halo most holes 0.05 to 0.2g/t Au
- ❑ **Two Australian Top 10 Au Intersections in last 12mths Greenfields Exploration**
 - ❑ Fi 160 - Au 14m @ 21.9g/t (incl. 2m @ 87.5g/t Au) from 34m plus **Ag** 6m @ 94g/t
 - ❑ Fi 212 - Au 14m @ 24.4g/t (incl. 2m @ 118g/t Au) from 26m plus **Ag** 26m @ 155g/t
 - ❑ Fi 214 – **Ag** 24m @ 173g/t from 12m (incl. 2m @ 943g/t **Ag** AND 2m @ 480g/t **Ag**)
 - ❑ Fine disseminated Native Au repeats well
 - ❑ In general, coarse Au fraction likely not captured in assays to date
 - ❑ Roadside area at Sorpresa is Silver dominant

Fifield Gold Observations – Wider Area



Western Block
Au in Creek
Sampling Area 4km²

- Numerous Fine Au occurrences
- Different to the Coarse Au at Fifield
 - More than one Au mineralised system
- Noted historic "hard rock Au scratchings" mapped
- Mapping, Creeks, Soils, Chips, Bedrock sampled by Rimfire
- Sorpresa discovered open ended
- A much larger Au system operating

Gold Receptive Horizon

➤ Gold Receptive “black silica” horizon

- ❑ Carbonaceous Sediments pervasively silicified, fractured, Au/Ag mineralised
- ❑ “Sorpresa-like” black silica continues to be sighted
- ❑ Along strike North and South from known Sorpresa
- ❑ “Only a small part of a likely much bigger gold system”
- ❑ Extensive mapped Geology in Syncline Rift Basin setting - 8km² Area and open
 - ❑ **Geological Concept Model established**

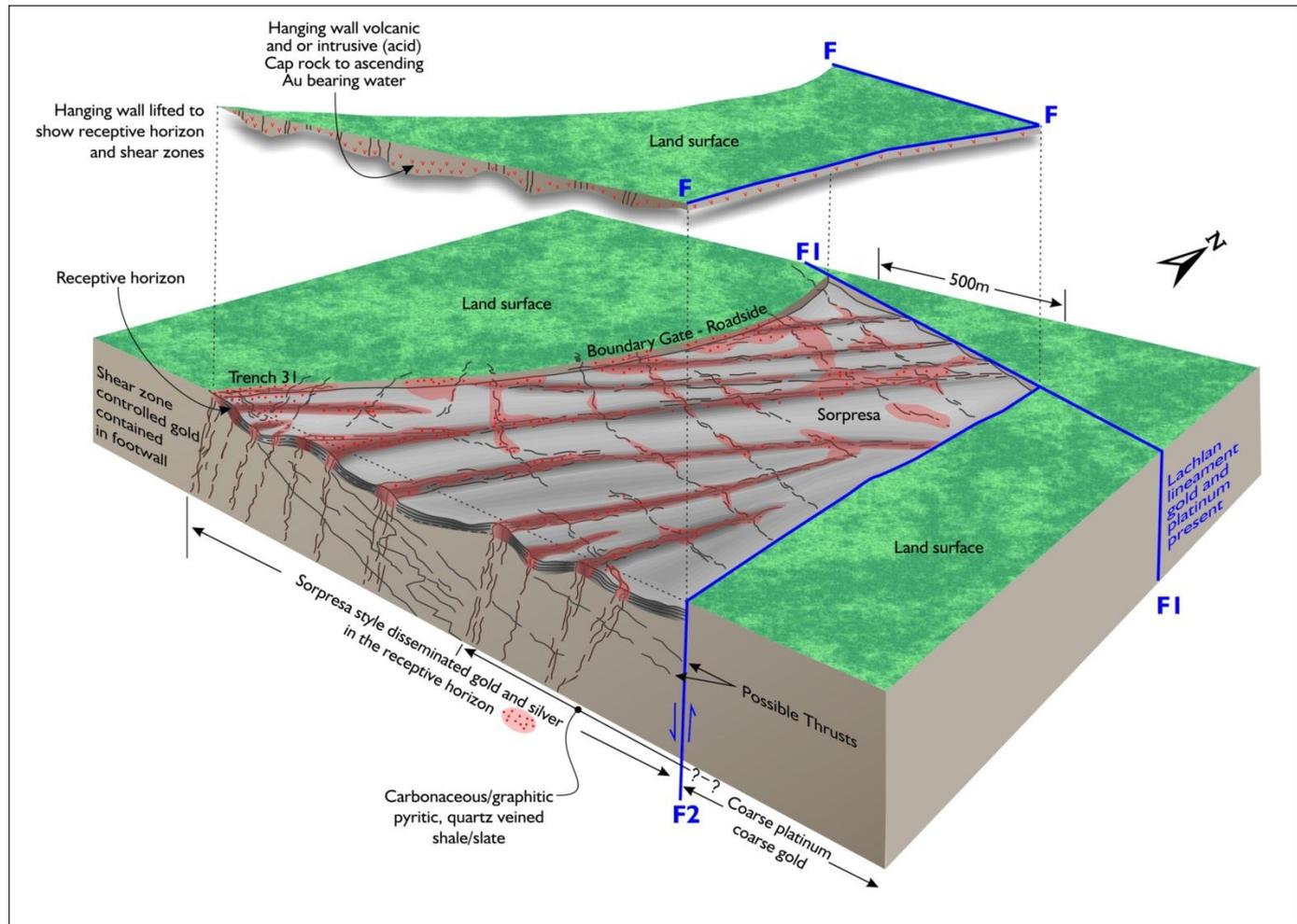


Various styles of Black Silica, Sheared, Brecciated

Importance of Black Silica Geology Association

Model Development

- Au receptive horizon
- Black Silica
- AV Capping Rock
- Shear zone control
- Intersecting shears important
- Pod-like 3D geometry
- Probable pooling



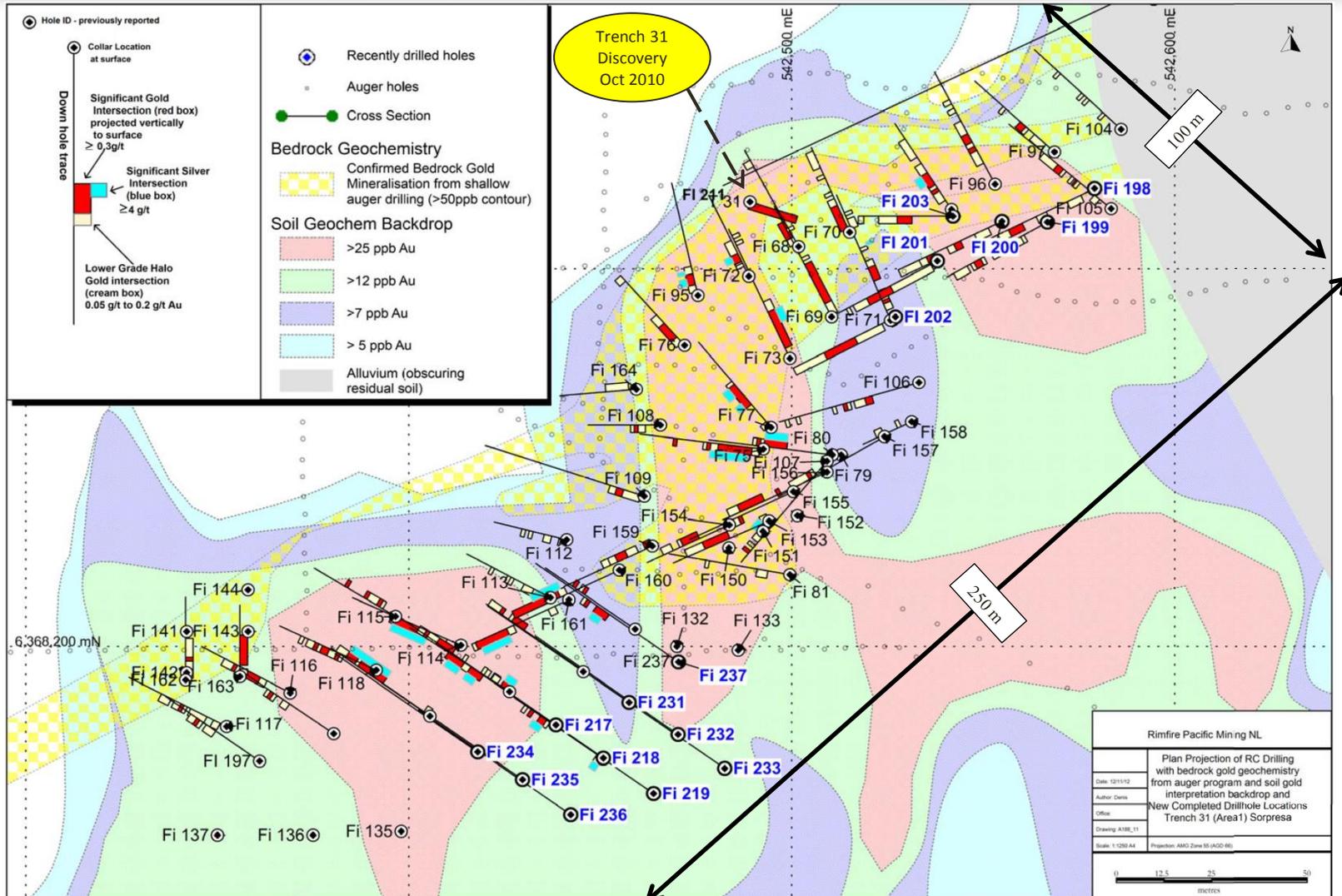
Tentative Concepts on the Deposit Origin

Mineralised System at Fifield – Geology Notes

- ❑ Hot fluids charged with Au, Ag ascend in fracture channels
- ❑ Low flow in impervious volcanic layer – precipitates Au, Ag
- ❑ High Carbon and pyrite content in rock layer below volcanic promotes deposition in restricted flow positions
- ❑ Fracturing and intersections of fracturing critical to focusing mineralisation within the receptive carbonaceous horizon
- ❑ Accompanying silica pervades the carbonaceous sediments resulting in the common and important “black silica” host

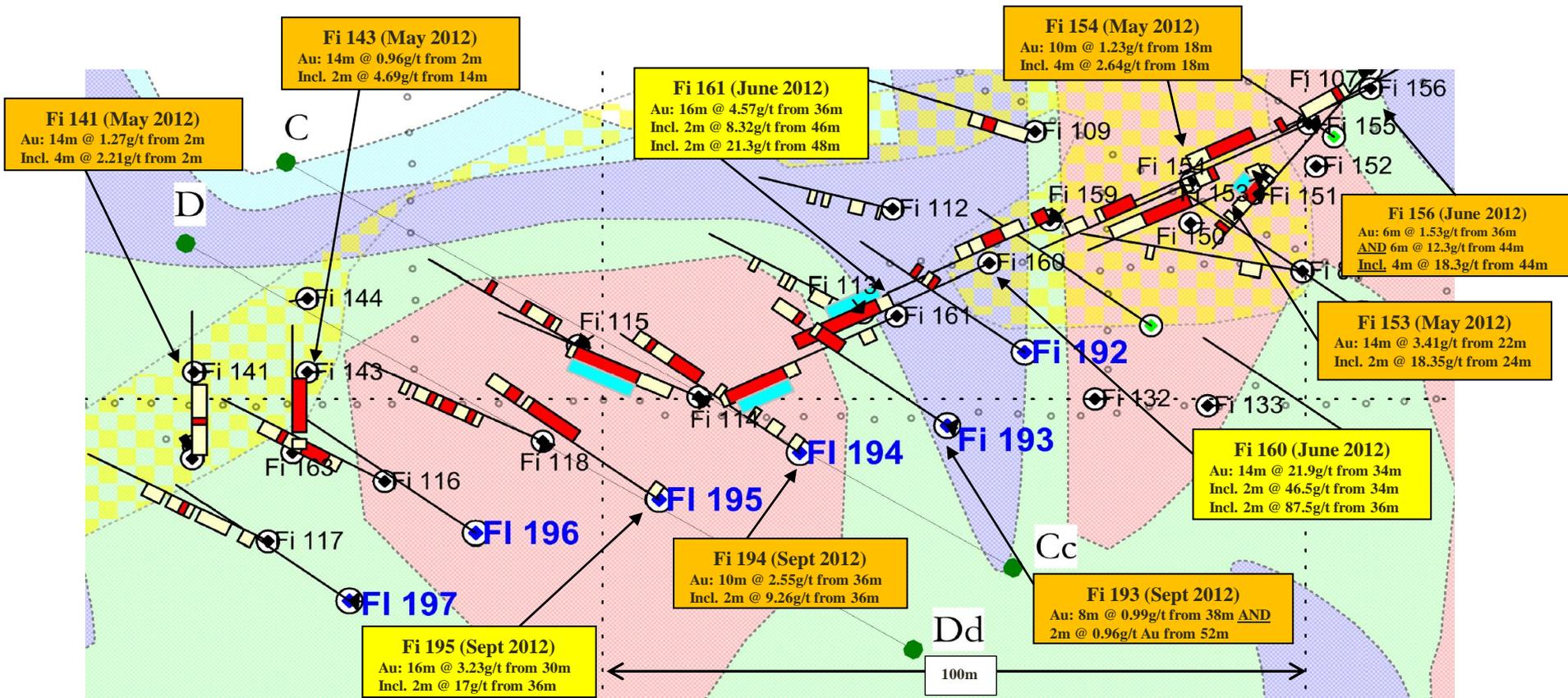


Sorpresa Tr31 Area Drilling on Soil and Bedrock Geochemistry

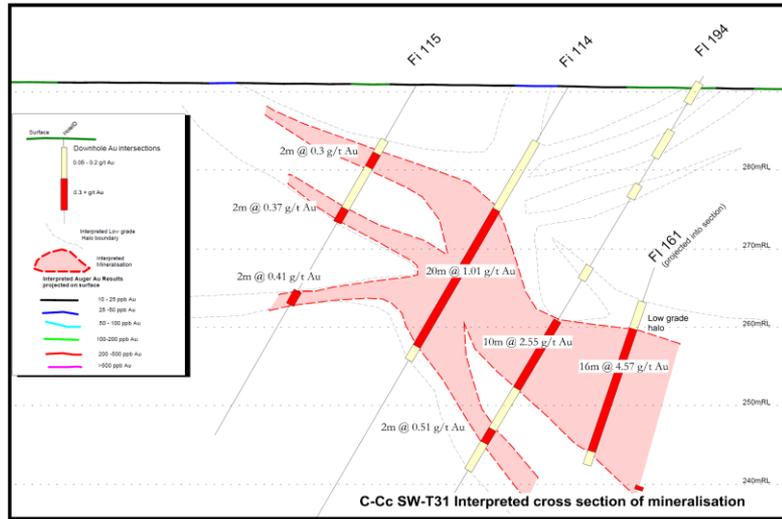


Sorpresa Tr31 Area Drilling

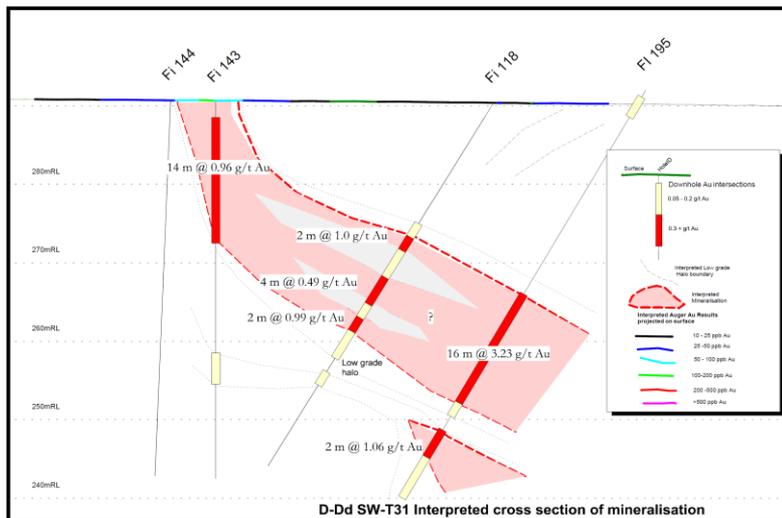
on Soil and Bedrock Geochemistry



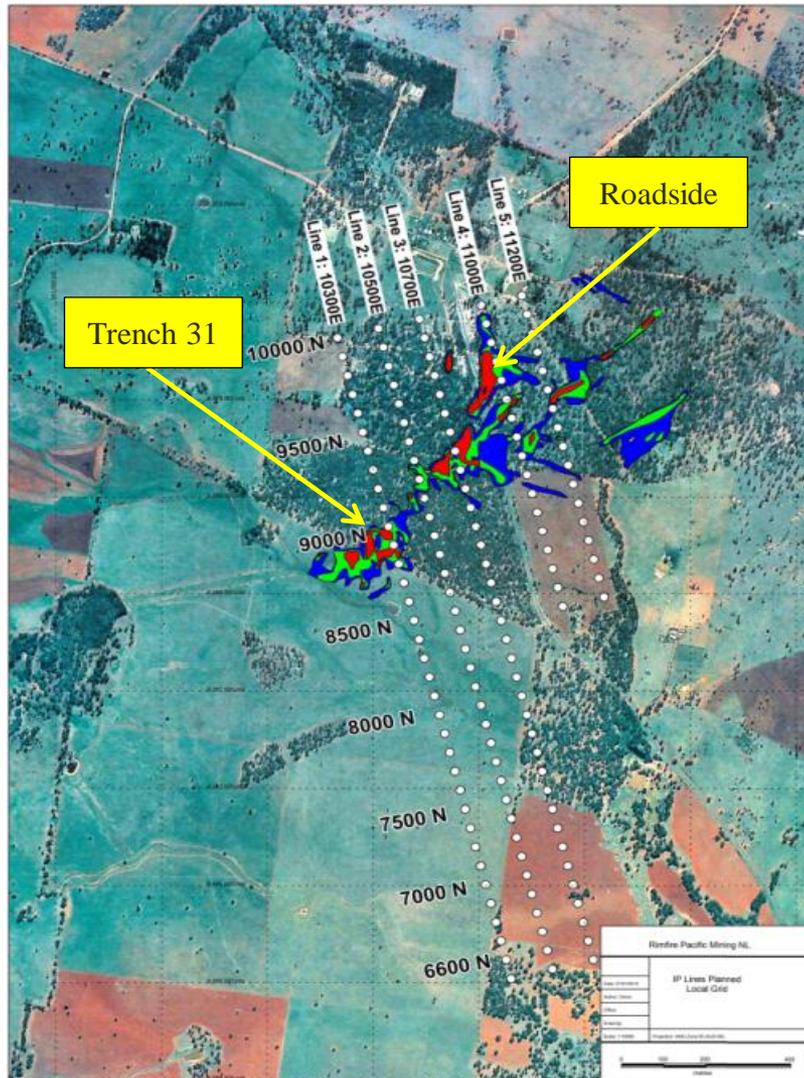
Sections started to be built at Sorpresa



- More delineation drilling results Nov-Dec
 - Approx. 2,500m just completed
- Gaining confidence in step out drilling
 - No surface outcrop or historic assistance
- Working towards resource estimations
 - More advanced areas at Sorpresa
 - Tr31, Boundary gate and Roadside

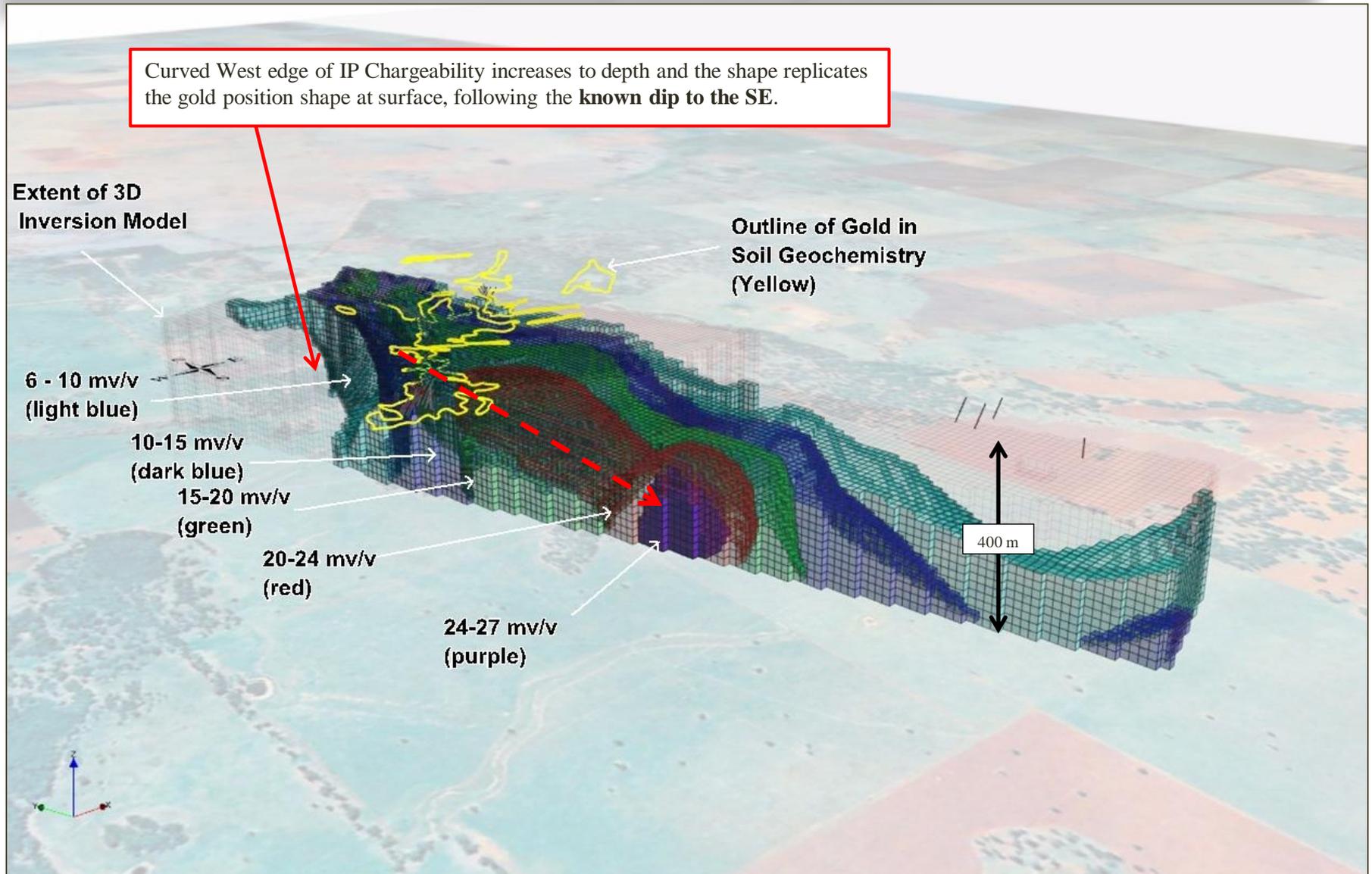


IP Survey at Sorpresa

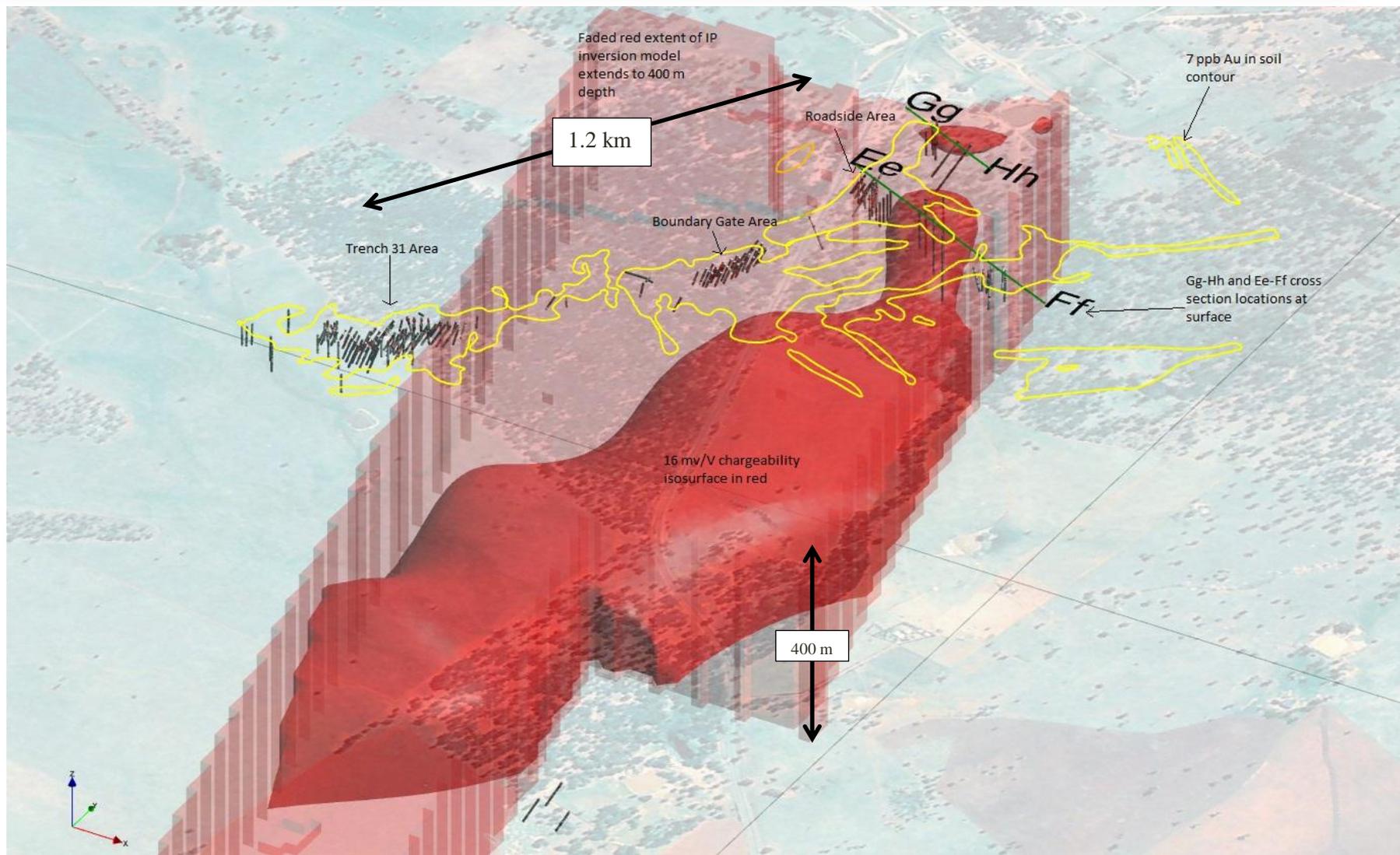


- Limited pole-dipole survey **first half 2012** partly over geochemistry
- 100m spaced readings, 200m spaced lines
- IP Anomaly is large
- Chargeability values generally increase with depth **in known dip direction**
- **Unusual curved face** of geochemistry mirrored in IP survey
- **Roadside Area IP is closer to surface**
 - Preliminary basis for chargeable values seen in the geology
 - Sulphides, graphite present
 - Mineralisation appears associated with the IP here, key assays pending

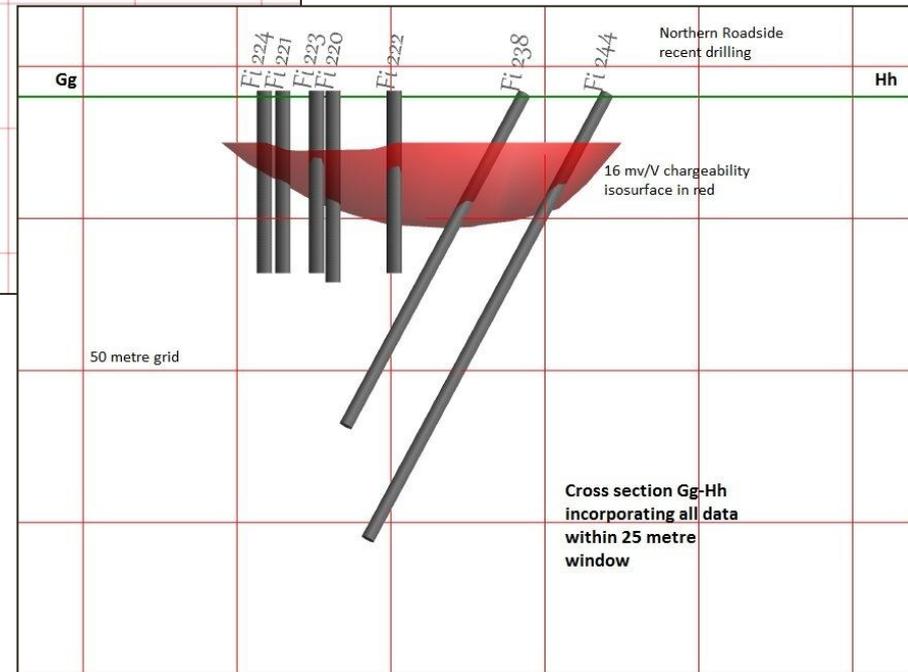
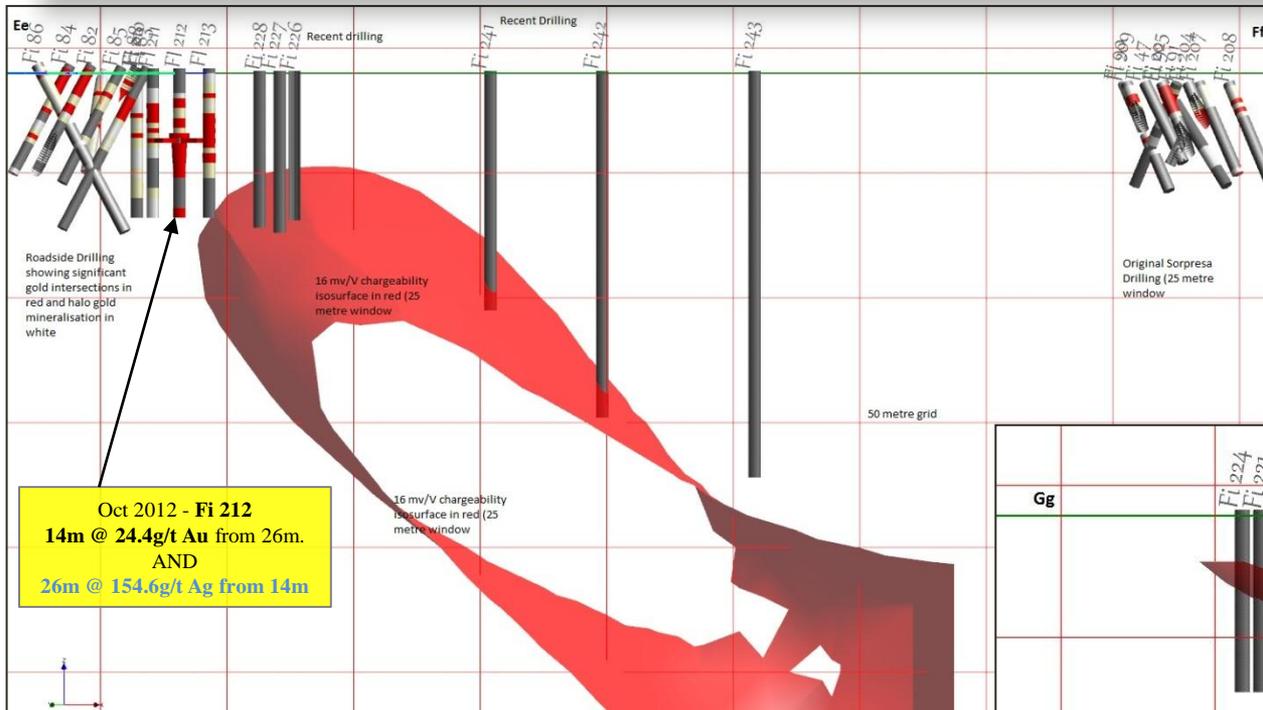
IP Survey at Sorpresa



IP Chargeability 16mv/V isosurface



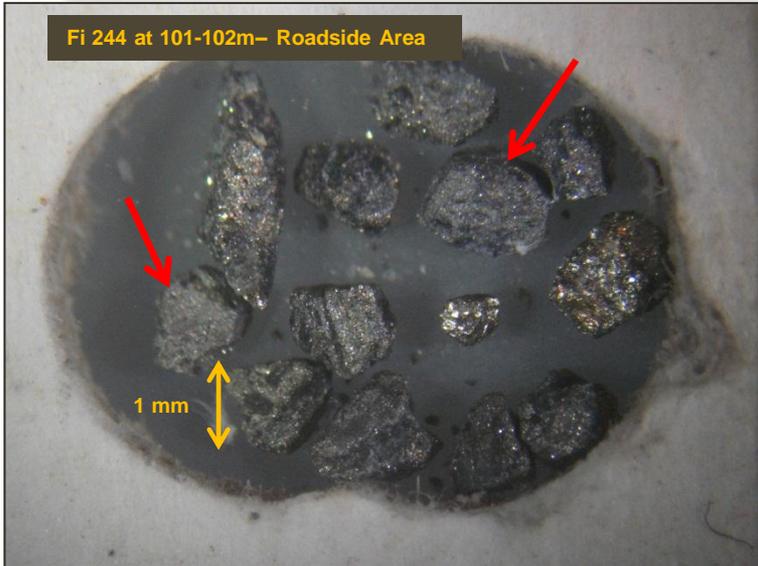
IP Response at Roadside



Encouraging signs seen in recent drilling with assays pending

Mineral Observations from the Field

Fi 244 at 101-102m– Roadside Area



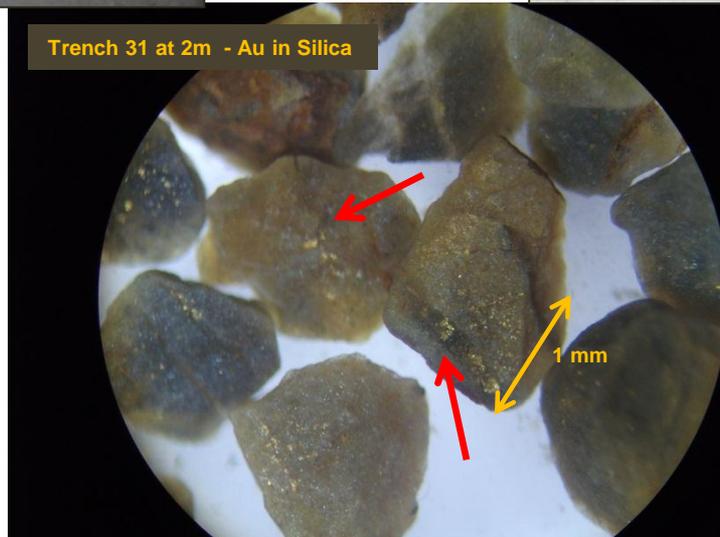
- Oxide zone
- Nodular Ag halides
- 943g/t Ag
20~22m



Fi 214 at 21- 22m– Roadside Area

- Primary mineralisation
- Pb, Ag Sulphides
- Massive Veinlets
- Metallurgy positive implications – gravity concs

Trench 31 at 2m - Au in Silica



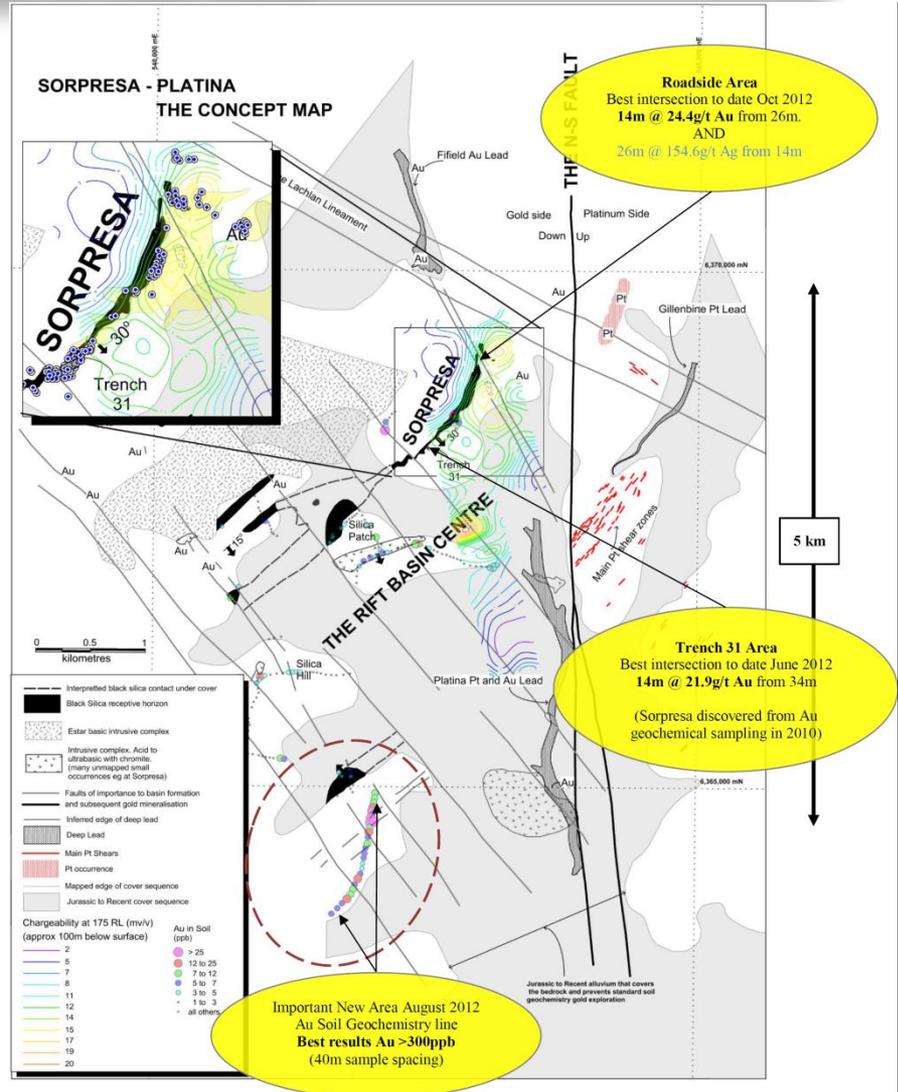
- Fine Native Au in Silica
- Multiple phases including some sulphide veins
- High grade Au no upper limit in theory

Mineralogy and petrology pending

Geological Concept Model

– Syncline Rift Basin in Plan View

- ❑ Sorpresa at the margin only
- ❑ Key marker Geology “Black Silica”
- ❑ Strongly gold mineralised system
 - Cross cutting faults and shears
 - Potential for pooled mineralisation
- ❑ Extensive Area 8km² and open
- ❑ Discovery occurred at eroded positions – Trench 31
- ❑ Most of the area is under light alluvium
 - Thicker sections in Rift Basin Centre
- ❑ Integrated Model compelling for multi-million ounce Au potential



Sorpresa Fine Au Discovery

Important Lessons

- ❑ **Subtle Mineralisation Expression**
 - ❑ Only discovered due to eroded lenses at surface in geochemistry
- ❑ **High Grades for Au and Ag, we have not seen the best grades yet**
 - ❑ Most of the area (8km²) subdued with light alluvium
 - ❑ Fine disseminated Gold and Silver
- ❑ **Metal Zoning, Au, Ag and pathfinders (Pb, As, Sb) aid discovery**
- ❑ **Deeper Connection for the mineralisation suggested by IP**
- ❑ **Conventional style of exploration program - Au Assays**
 - ❑ Only a small coarse Au fraction encountered to date, not included in grade
- ❑ **Other Au noted at Fifield outside Sorpresa Area**

Exploration Programs 2013

▶ Drilling Plans and Geophysics

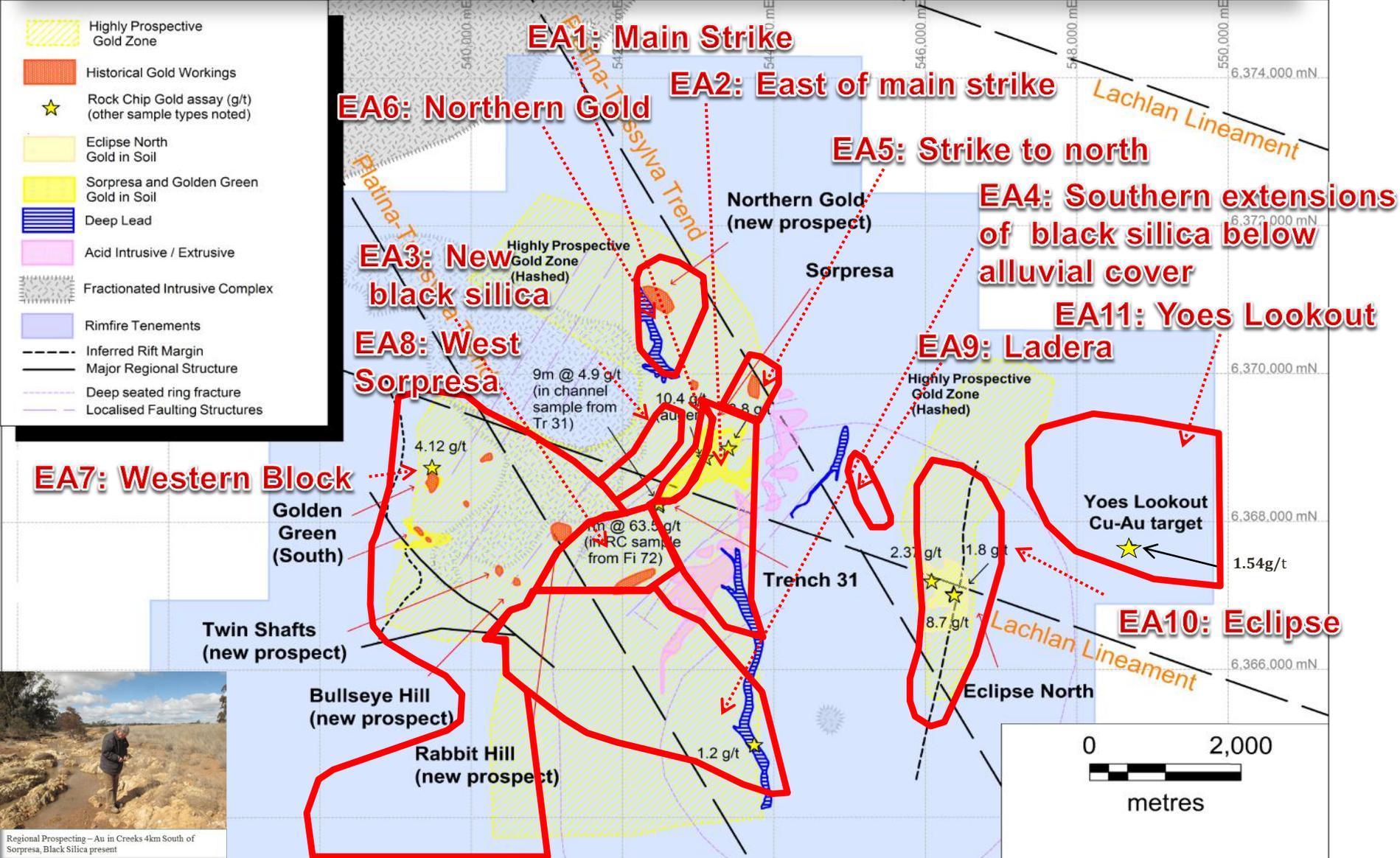
- In-house percussion Rig approx. 10,000m, discovery, scout and delineation
- Contract Rigs approx. 10~15,000m, delineation and deeper capacity
- Likely some more Gravity, IP and Radiometrics

▶ Target Types

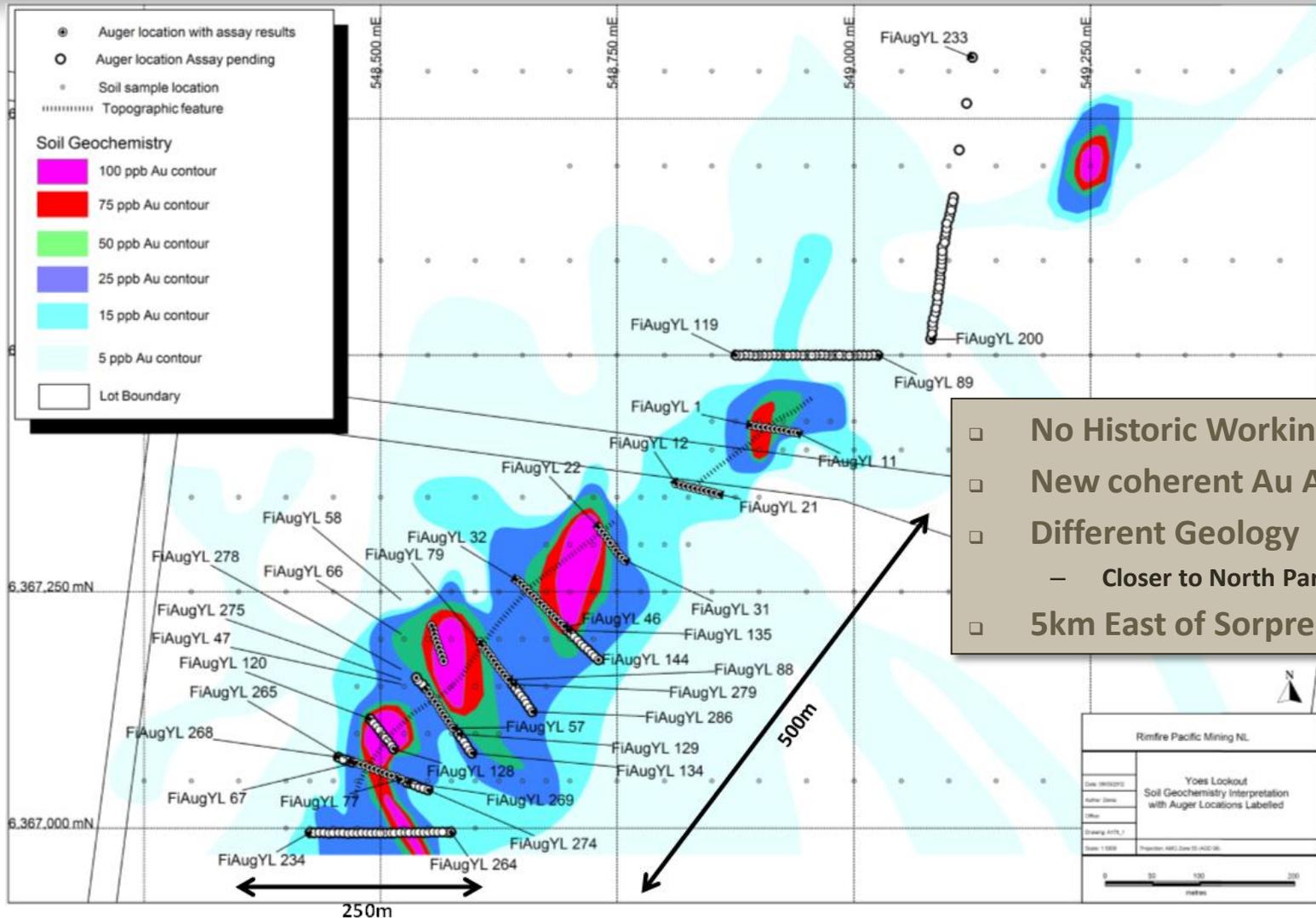
- Current Sorpresa and its expansion in the 8km² Basin Area
- IP Anomaly under Sorpresa – 150m to 350m depth range
- Regional Targets –all Drill ready e.g. Bulls Eye Hill, Eclipse North, etc.
- Line drilling in alluvium covered areas within the Basin
- Possible Deep Trenching Platina Lead



Major Gold Areas of Focus Fifield



Yoes Lookout Gold in Soil Anomaly - Contours



- No Historic Working
- New coherent Au Anomaly
- Different Geology
 - Closer to North Parkes style
- 5km East of Sorpresa

Objectives for 2013

- ▶ Maiden Resource Definition(s)
- ▶ Resolution of the IP connection
- ▶ Metallurgical testing
- ▶ Expansion– Discoveries Beyond current Sorpresa



Requires further investment in management and greater use of capital going forward

Why support Rimfire?

❑ Sorpresa at an exciting stage

- ❑ High Grades both Au and Ag
- ❑ Fine disseminated native Au - assay friendly
- ❑ Near surface mineralisation
- ❑ Moving to resource definition(s)
- ❑ Fifield is a good infrastructure location



❑ Discovery Growth in Wider Sorpresa 8km² Area

- ❑ A strong gold mineralised presence exists
 - ❑ Au receptive Geology – Syncline Rift Basin setting
- ## ❑ Part of a much larger Au mineralising system at Fifield
- ## ❑ World Class Discoveries are possible in this setting
- ❑ Potential for multi-million ounce Au
- ## ❑ The Company should look very different in 12 months time

Contact us Thankyou



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The information in the report to which this statement is attached that relates to Exploration Results is compiled by Mr Colin Plumridge, who is a Member of The Australian Institute of Mining and Metallurgy, with over 40 years experience in the mineral exploration and mining industry. Mr Plumridge is employed by Plumridge & Associates Pty. Ltd. Mr Plumridge has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity, which is being undertaken to qualify as a Competent Persons as defined in the 2004 edition of the "Australian Code for Reporting of Mineral Resources and Ore reserves". Mr Plumridge consents to the inclusion in the report of the matters based on their information in the form and context in which it appears.