

Friday, 15th July 2016 Company Announcement Office Australian Securities Exchange rimfire pacific mining nl a.c.n. 006 911 744 ASX Code "RIM"

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"Fortuna" Gold Anomaly established in similar host geology to Sorpresa Drilling to commence early August at Fifield NSW

Rimfire Pacific Mining NL (**ASX codes: RIM, RIMOA**) ("Rimfire" or "The Company") provides details of extensive surface sampling and mapping to the North of the Sorpresa gold and silver resource, which includes work in the newly defined "**Fortuna gold prospect**". Important district concepts have emerged enhancing the position for further gold discovery at Fifield.

<u> Highlights - The Fortuna Gold Prospect</u>

- Surface geochemistry confirms a 1.2km x 400m (open) gold anomaly, 3km north of Sorpresa
- ☐ The geological context is similar to the Sorpresa discovery area
 - o sheared & brecciated carbonaceous sediment host rocks
- ☐ The magnitude and extent of the surface gold geochemistry exceeds Sorpresa for equivalent early stage
 - o There is also silver, arsenic and lead anomalism zoned in places (also found at Sorpresa)
- ☐ The intersecting structural setting and arcuate shape strongly suggests an intrusion influence
 - o The potential for a large gold system that may be operating is inferred
- Percussion drilling is scheduled to commence early August (weather and access permitting)
 - A series of stratigraphic holes to test subsurface conditions (the area has no prior drilling)
 - \circ 7 drill traverses (5 line km), 100m spaced holes, depth to \sim 50m, infilled as required, giving approx. 50 holes, for 2,500m

Highlights - Integrated Discovery Model - the Potential of the Sorpresa Gold 7km Corridor

- ☐ The gold mineralisation model concepts have been further refined within the Sorpresa basin style geology
- Additional targets have been identified, based on geochemistry, geology & geophysics
- Sorpresa basin style geology has been expanded from 11km² to 18km². This increased area is considered prospective for gold and silver, and is less than 10% drill tested (Figures 2 & 4 Maps, pages 4 & 6).
 - A prominent North-South corridor 7km x 2km has emerged with multiple targets
 - Multimillion ounce gold discovery potential is seen within this area
- The 2016 gravity survey has identified prospective targets under cover to the South of Sorpresa
 - o A 2km long gravity anomaly, potentially represents a repeat of Sorpresa style mineralisation

CEO and Managing Director, John Kaminsky stated:



"Detailed field work to the North of Fifield has identified large gold potential, including the newly identified "Fortuna Prospect" gold zone.

"A massive amount of field work has now been assembled giving a compelling 7km long north-south gold corridor orientation inclusive of the Sorpresa resource area.

"Sorpresa was a greenfields discovery with some spectacular gold and silver grades. It had a low level surface gold expression of the order 10~50 ppb Au

and as the first discovery, provides proof of concept for the Fifield area to host multi-million ounces of gold equivalent mineralisation.

"Having examined the geological and mineralising context closely in the Fifield district around Sorpresa, we believe additional discoveries are likely.



One of the selected corridors for RC drilling traverses at Fortuna

[&]quot;A comparison between Sorpresa and the Fortuna anomaly, places Fortuna ahead in terms of gold surface geochemistry and scale, at an equivalent early stage of assessment to that of Sorpresa.

"Whilst this area, like much of Fifield, is very poorly exposed terrain, we are encouraged by the potential of what this new untested area could yield in discovery.

"There is genuine excitement as we prepare to undertake the first reconnaissance drilling at Fortuna. The regolith conditions are a little more complex in the north, so establishing the subsurface geology orientation, auriferous extent and connection to the surface geochemistry are key outcomes we are looking to achieve with the next work program.

"We see the Fortuna mineralising conceptual model providing the potential for a larger upside on the gold mineralisation at this location. At Fortuna, the model may have a closer affinity to a collapsed breccia component surrounding an intrusive at depth. The anomalous gold could be associated with Sorpresa-like black carbonaceous silica incorporated into the broad brecciated margin of a collapsed caldera, based on evidence to date.

"Whilst the Sorpresa gold and silver resource still has growth potential, the Sorpresa mineralisation appears to be more stratigraphically controlled overall, which contrasts to the mineralising concept model at Fortuna.

"Our first pass drill assessment at Fortuna will aim to confirm the following:

- ☐ The disseminated nature of the gold mineralisation in the oxide zone, demonstrating capacity for large scale
- ☐ The structural interplay with the gold mineralisation, providing windows on the better areas to pursue
- The capacity for ore grade material within the system
- The likelihood of mineralisation to include potential at depth

"The 2,500m drill program proposed, would not be testing the gold potential at depth in the first instance, but the shallow holes would be demonstrating proof of auriferous concept including the disseminated nature of the gold potential on a large scale. This is not an expensive program for a solid first phase test.

"Based on the current early stage facts, Fortuna offers a conceptually larger gold opportunity than Sorpresa. The proposed work program at Fortuna will help resolve this potential.

Video Hyperlink: Discussion on recent Fortuna surface sampling, Sorpresa gold corridor, Fifield NSW

Sorpresa North-South Corridor - 7km of Gold potential with identified targets

"The new Fortuna gold anomaly is at the northern extent of the North-South Sorpresa corridor which has evolved from the detailed field work done by the Company, over and extended period of time. The integration of the recent intensive field work, with historic knowledge generated by the Company, now creates a highly prospective series of targets within this 7km x 2km zone.

"Whilst more details will be provided in due course, on proposed drill programs, the following targets are priorities for testing (numbers refer to Map, Figure 2, page 4):

- 1. Extensions to Sorpresa Gold and Silver resource
- 2. **Fortuna gold prospect** (structural, intrusive driven breccia target)
- 5. **Golden Chrome** prospect with intense alteration, surrounding a quartz porphyry/quartz centre, gravity low, 700m diameter (porphyry gold target)
- 7. **Southern Gravity** (gold & silver target similar strike (2km), intensity and length to Sorpresa)

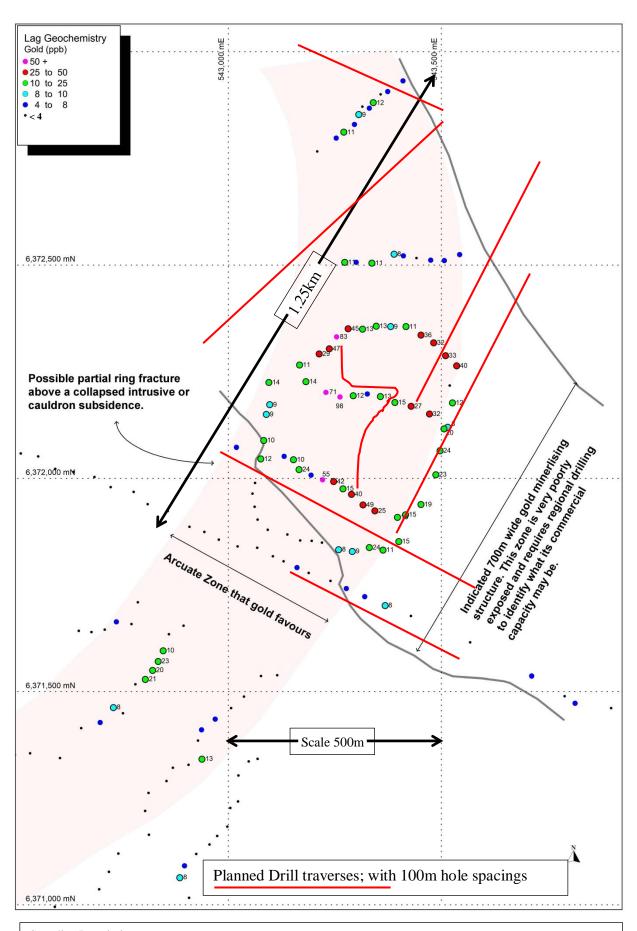
Precious Metal Outlook - Remains Positive

"The gold and silver prices have increased considerably in the last 6 months. The Company believes the pricing outlook for precious metals remains firm. This is a positive influence for the junior resource sector helping to promote a more buoyant investor sentiment overall.

	Price 27 Jan 2016	Price 12 July 2016	Increase %
Gold	USD\$1102/oz	USD\$1333/oz	21%
Silver	USD\$14.26/oz	USD\$20.22/oz	40%
Platinum	USD823/oz	USD\$1095/oz	33%

(quoted (www.kitco.com), in New York based on closing Ask in USD, 12th July 2016)

Figure 1: "Fortuna Gold" Prospect Surface Sampling – showing Gold ppb in plan view



Sampling Description:

Surface sampling takes into account the complexity and diversity of the regolith, and results are interpreted accordingly in this context. "Pebble Lag" sampling is an averaged sampling technique incorporating an approx. 3m radius at each sampling point, and approx. 2~3kgs of surface rock fragments (pebbles) screened to yield 400g of -4mm +2mm fraction highly averaged micro rock chips

Figure 2: Geological & Structural Setting for Sorpresa Corridor - Discovery Growth & Targets for Gold

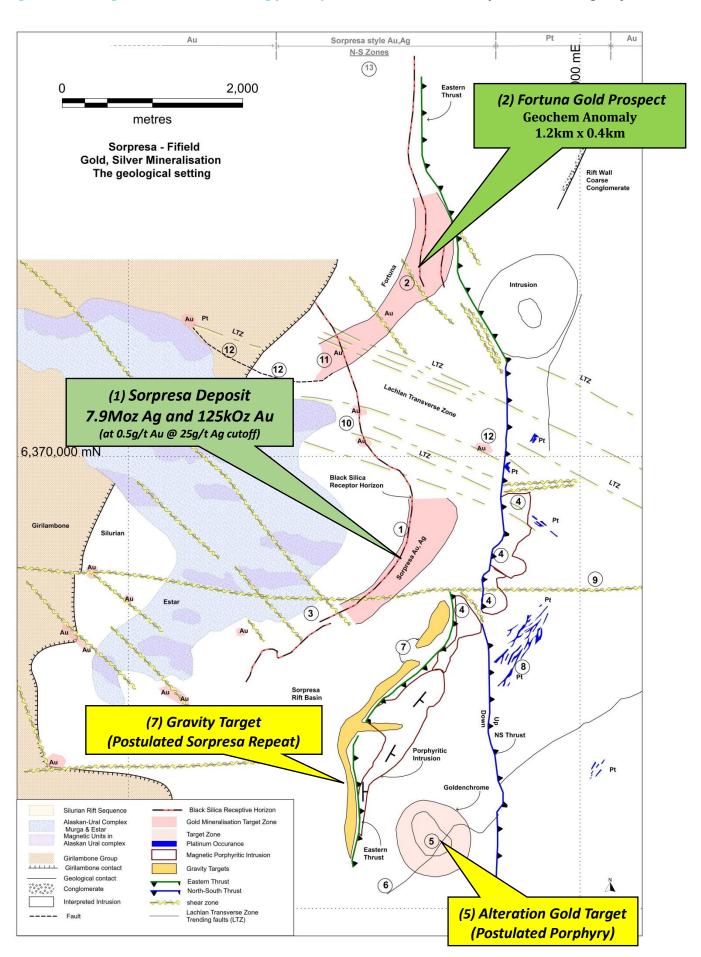


Figure 3: Fifield Region Concept Map with mineralisation diversity emerging as at July 2016

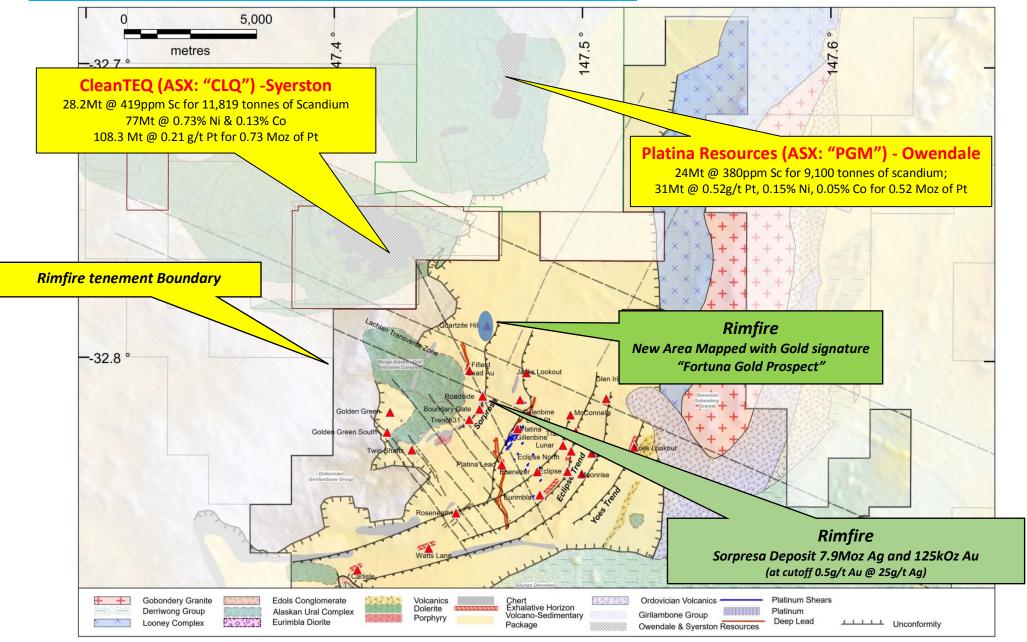
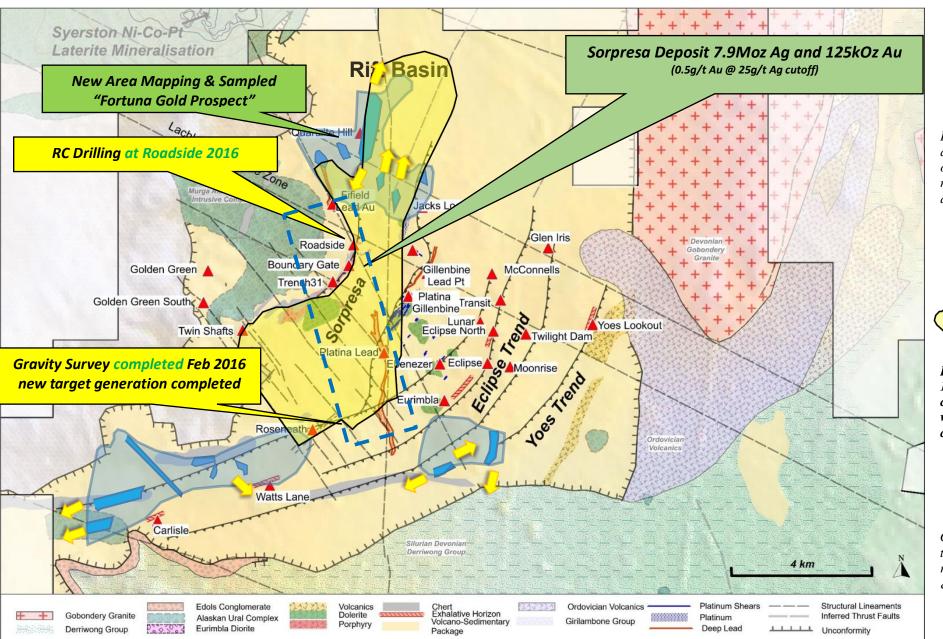


Figure 4: Fifield Prospect and Concept Map with location of the expanded Sorpresa Basin footprint and New Prospective Au anomaly areas - as at July 2016





Recently prospected areas, highlighting zones of interest which includes newly identified Au areas and geology



Expanded known area of 18km² of Sorpresa style carbonaceous sediments, of which less than 10% is currently drill tested for Au



Gravity Survey – drill targets identified for repeats of Sorpresa Au & Ag

Sorpresa - Determining growth opportunities

Currently the Sorpresa Deposit comprises 6.4Mt for 7.9Moz of silver and 125kOz of gold (with a cut-off at 0.5g/t Au & 25g/t Ag) as an Inferred and Indicated Mineral Resource, equating to approximately 250,000oz gold equivalent.

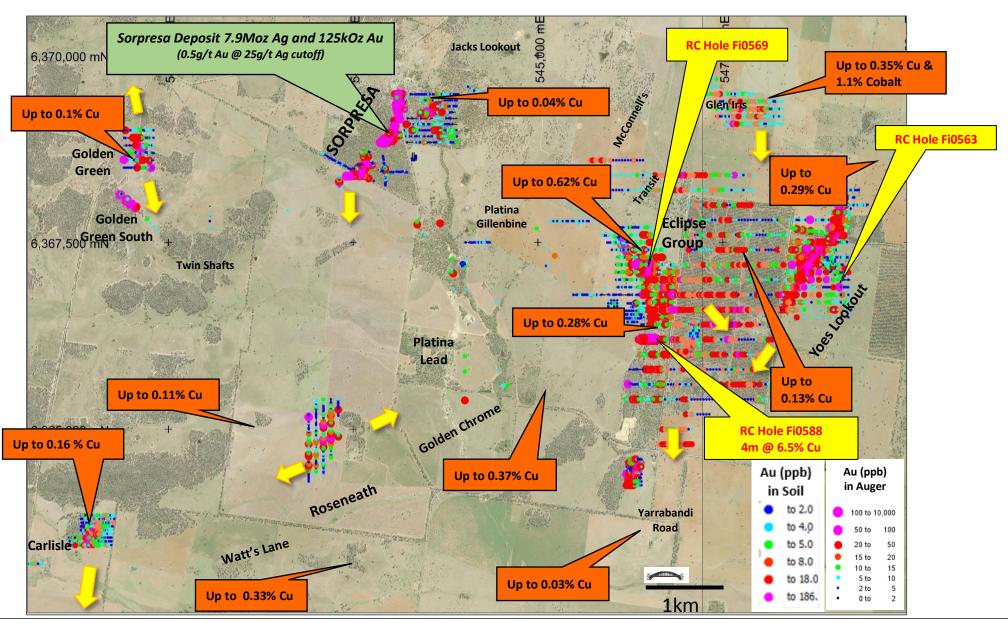
The Company believes that potential upside exists at Sorpresa by defining additional resources in under explored areas along strike to the south and at depth, down dip to the east and also in gap areas between mineralised domains.

A highly prospective $7 \text{km} \times 2 \text{km}$ North-South gold corridor, with numerous and diverse large scale targets has now been refined and ready to be drill tested. Targets include the sizable (1.2km x 0.4km) Fortuna Gold anomaly identified through recent detailed surface sampling and geological mapping. This area is a gold, arsenic and lead anomaly in the Sorpresa style geology, with strong structural zones appearing to influence the mineralisation. (Figure 2, page4).

JOHN KAMINSKY

CEO and Managing Director

Figure 5: Wider Sorpresa area Map, shows the underlying gold signature, with best Copper Rock Chips overlaid. RC drilling (May~July 2015) has confirmed Copper (Chalcopyrite)

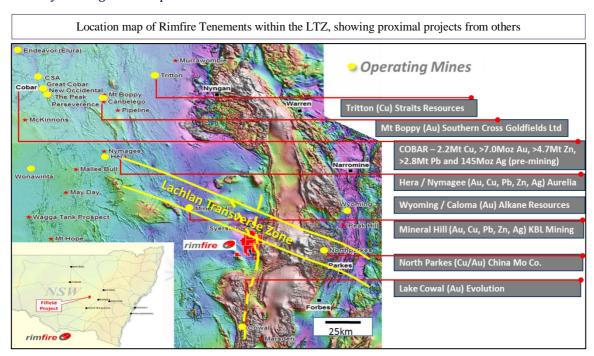


The Eclipse Trend is in a structurally complex area which is associated with a strong geochemical corridor which extends from the South for 3.0km through the Eclipse North drilling area and is open along strike to the north and south. Significant high grade Cu and Au drill intersections in both areas has indicated the potential for ore grade mineralisation relatively close to surface, open down dip and along strike.

ABOUT RIMFIRE PACIFIC MINING AND COMPETENT PERSON DECLARATION

Rimfire Pacific Mining is an ASX listed (code: RIM) resources exploration company that has its major emphasis focused at Fifield in central NSW, located within the Lachlan Transverse Zone (LTZ).

In 2010 the Company delivered a greenfields gold and silver discovery, named "Sorpresa", in the Fifield district. Subsequent exploration has provided evidence that the "Wider Sorpresa Area" is now considered a significant gold mineralised system of some promise. More recently a copper signature has been established to the East. The gold is predominantly native gold at Sorpresa.



The best gold and silver intersections achieved from the period mid-2012 to the current date on the **Sorpresa** Project area with locations shown include (note Table 4: **Dates and Hyperlinks for previously referred to results in this report)**:

14m @ 21.9g/t Au plus 6m @ 93g/t Ag	Trench 31
13m @ 8.46g/t Au	Trench 31
9m @ 18.1g/t Au plus 3m @ 280g/t Ag	Trench 31
14m @ 24.4g/t Au plus 26m @ 155g/t Ag	Roadside
9m @ 16.10g/t Au plus 297 g/t Ag	Roadside
7m @ 13.41g/t Au plus 751g/t Ag	Roadside
10m @ 535g/t Ag plus 1.0g/t Au	Roadside
20m @ 230g/t Ag	Roadside North
16m @ 5.32g/t Au plus 20m @ 81g/t Ag	Roadside
1m @ 114g/t Au plus 1m @ 33g/t Ag	Boundary Gate East (BGE)
4m @ 21.9g/t Au	Join Up

The current main Sorpresa Strike line containing gold and silver mineralisation is approximately 1.5km in length and is at various stages of further discovery extension drilling.

The Company announced a JORC 2012 Compliant Inferred & Indicated Maiden resource for Sorpresa in December 2014, which comprises 6.4Mt for 7.9Moz of silver and 125kOz of gold (at 0.5g/t Au & 25g/t Ag cutoff).

The Company has now established multiple project areas of importance involving hard rock Gold (Au), Silver (Ag), Copper (Cu) and Platinum (Pt) within a 6km radius of the Sorpresa discovery covering an extensive prospective 35km^2 area at Fifield, which is part of the contiguous 566km^2 tenement position held.

The latest presentations on the Company are at hyperlinks:

Rimfire CEO Presentation - Mines and Money Hong Kong April 2016 - John Kaminsky

Benchmarking - AGM 27 November 2015 - Richard Schodde

Resources Industry Presentation trends in Investment – AGM 27 November 2015 – Hedley Widdup

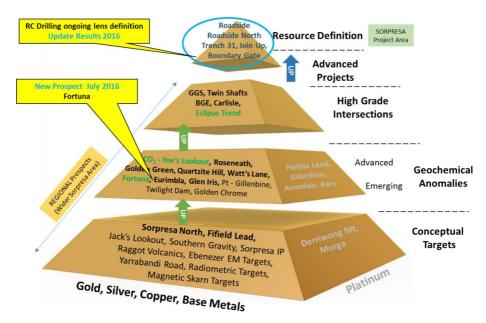
A 3D Exploration Model, as at May 2014, depicting gold mineralisation at Sorpresa with a description of the RC drill program goals at that time is available as a *video by hyperlink: Click Here.*

Other videos available on Rimfire Website Hyperlink

Video hyperlinks: (1) Roadside Drilling West End Discussion; (2) Roadside Drilling South Direction

Regional Prospects within 6km Radius of Sorpresa Project Area at Fifield

Prioritized current prospects and targets within 6kms of Sorpresa are being systematically assessed. Rimfire interprets a rift basin setting at Fifield, Back Arc to the World Class Macquarie Arc, and traversed by the crustal scale Lachlan Transverse Zone (LTZ) and cross cut by other major crustal structures, which is host to multiple styles of significant mineralisation, with combined multimillion ounce gold equivalent potential. To date more than **30 targets** are revealed at Fifield.



The prospect pyramid below ranks these prospects which are grouped into 7 manageable "Target Domains", for gold and base metals, in terms of their logistical, spatial, deposit style and exploration stage;

Rimfire Prospect Pyramid illustrated at increasing stages of advancement from Conceptual targets, Emerging and Advanced Geochemical Anomalies, Prospects with High Grade intersections, and Advanced Targets, Resource at Sorpresa.

- 1. Sorpresa (Carbonate Base Metal Epithermal Au/Ag) Roadside North, Roadside, Original Sorpresa
- 2. Sorpresa (Carbonate Base Metal Epithermal Au) Join-Up, Boundary Gate, Boundary Gate East, Trench 31
- **3. Eclipse Trend (Au-Copper, VMS / Epithermal)** McConnell's, Transit, Eclipse North, Eclipse, Eurimbla, Golden Chrome, Roseneath, Watt's Lane, Carlisle.
- 4. Yoes Lookout (Skarn style and Structurally controlled Greenstone and Sediment hosted Au, possible Porpyhry Cu-Au target style)
- **5. Orogenics (Structurally controlled Greenstone and Sediment hosted Au)-** Golden Green, Golden Green South, Twin Shafts, Rabbit Hill, Golden Green East.
- 6. Sorpresa Extensions Sorpresa North, Quartzite Hill, Fifield Lead, Southern Gravity, Red Mist
- 7. Conceptual Jack's Lookout, Gravity Gradient, Raggatt Volcanics, Glen Iris,

Work programs are at various stages of development on the prospects.

<u>Table 3: Ranked Prospect Portfolio at Fifield NSW</u>

Table of Comparison of more Advanced Prospects within 6km Radius of Sorpresa Projects								
Location	Rock Chip g/t Au	Typical Soil ppb Au	Typical Auger ppb Au	Anomaly Length	RC Drill	Open	Other	Historic Workings
Sorpresa Resource	8.8	10~50	20~1,000	1.5km	14 @ 24.4 g/t Au 26m @155g/t Ag	yes	IP/Gravity	Minor
Yoes Lookout	3.4	10~300	20~1,000	1.7km	Au, Cu anomalous	yes	Magnetic Radiometric	No
Eclipse Trend	18.7	N/A	20~700	2.7km	4m @ 6.5% Cu 4m @ 2.3g/t Au	yes	Ag, <mark>Cu</mark>	Minor
Golden Green Group	8.1	N/A	10~100	0.5km	2m @ 9.11g/t Au	yes	Mafic host?	Yes
Roseneath	3.7	8~300	15~80	0.8km	N/A	yes	Sorpresa Style?	No
Carlisle	23.0	9~50	N/A	0.35km	7m @ 1.47g/t Au	yes	Magnetic Feature	Minor

Company Strategy

The Company has committed to pursue a *prospect portfolio strategy* of developing the regional prospects at Fifield to suitable stages, in parallel with the Sorpresa project area to achieve outcomes as follows:

- Enhance and highlight the Fifield district's appeal to deliver more discoveries within 6km radius of Sorpresa
- Metals being pursued include Gold, Silver, Copper and Platinum
- Ensure the Company has the opportunity to make the best discoveries possible in its prospect portfolio
- Continue discovery growth at Sorpresa, looking for important contributions in the next phases of drilling
- Grow the maiden resource at Sorpresa (23 Dec 2014), currently published as inferred and indicated comprising **6.4Mt for 7.9Moz of silver and 125kOz of gold (at 0.5g/t Au & 25g/t Ag cutoff)**
- Examine economic potential, as appropriate to the stage of the project area

Competent Persons Declarations

The information in the report to which this statement is attached that relates to Exploration and Resource Results is based on information reviewed and compiled by Colin Plumridge who is deemed to be a Competent Person and is a Member of The Australasian Institute of Mining and Metallurgy.

Mr Plumridge has over 45 years' experience in the mineral and mining industry. Mr Plumridge is employed by Plumridge & Associates Pty. Ltd. and is a consulting geologist to the Company. Colin Plumridge has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Colin Plumridge has previously consented to the inclusion of the matters based on the information in the form and context in which it appears.

Historic information and previously published material under 2004 JORC standard that is referenced in this report:

The information provided in "About Rimfire Pacific Mining" is extracted from the reports entitled and listed in the table below created on the dates shown and is available to view additionally on the Company Website at hyperlink: <u>ASX Announcements</u>. The company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements.

In addition, the Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements which operated under the 2004 JORC reporting requirements. Mr Colin Plumridge as a Competent Person consented to the inclusion in the original reports in the form and context in which each appeared, please refer to the Competent Persons declaration above for additional information.

Table 4 Dates and Hyperlinks for previously referred to results in this report

ASX July 25th 2008 Quarterly Report For the period April 1st to June 30th 2008

ASX March 30th 2012 Coherent Gold geochemistry at Yoes Lookout Confirmed – Fifield NSW ASX September 17th 2012 First Gold Sections Created at Sorpresa Project, Fifield NSW ASX June 13th 2012 High Grade Gold Intersection Sorpresa Project – Fifield NSW ASX July 26th 2012 Successful Intersections at Sorpresa Gold Project ASX October 10th 2012 Highest Gold and Silver Grades seen to date at Sorpresa Project ASX December 18th 2012 Sorpresa Project Produces More Encouraging Results ASX March 27th 2013 Additional Assays at Sorpresa Gold Project ASX June 13th 2013 Further Positive RC Drilling Results at Sorpresa Project ASX July 17th 2013 Diamond Drilling Reveals Bonanza Grade of 1m @ 114g/t Au ASX October 21st 2013 Results Confirm Extensions of Gold and Silver at Sorpresa Project ASX December 20th 2013 High Grade Silver extensions continue at Roadside ASX February 14th 2014 Gold Intersections Confirm New Intersections at Sorpresa ASX May 16th May 2014 4,000m RC Drilling Program at Sorpresa Project – Regional Intersection 2m @ 9.11g/t Gold ASX May 30th May 2014 Drilling Update and 3D Exploration Model for Sorpresa Project – 2m @ 7.49g/t Gold intersected ASX July 23rd 2014 Encouraging Regional Rock Chip Results up to 13.7g/t Gold, Fifield NSW ASX August 18th 2014 New High Grade Rock Chip Results up to 23g/t Au at Fifield NSW ASX August 26th 2014 Sorpresa Gold and Silver Mineralisation Extended at Fifield, NSW ASX November 28th 2014 Encouraging Gold Results Intersected in New Shallow Oxide Position at Sorpresa ASX December 8th 2014 High Grades Intersected in Sorpresa Resource Definition Drilling ASX December 23rd 2014 Sorpresa Maiden Resource Fifield NSW – 6.4Mt for 125kOz of gold and 7.9Moz of silver ASX January 30th 2015 December Quarter Exploration Report ASX February 20th 2015 Sorpresa RC Drilling Assays Finalised, New RC Drilling underway to extend mineralisation ASX February 23rd 2015 Gold Intersections confirmed from Surface at Carlisle, Fifield NSW ASX 23rd March 2015 Encouraging Results including 2m @ 10.09g/t Gold Intersected at Sorpresa ASX 13th April 2015 Skarn style mineralisation intersected with Copper Anomalism at Yoes Lookout Prospect ASX 20th May 2015 Yoes Area Assays confirm Copper Anomalism with Gold Present ASX 16th June 2015 RC Drill Assays Confirm Copper Anomalism and Gold at Eclipse Trend ASX 23rd July2015 4m @ 6.5% Cu and 2.3g/t Au Massive Chalcopyrite at Eclipse ASX 26th August 2015 Sorpresa Drilling Continues best intersection of 14m @ 5.24g/t gold & 156g/t silver from 21m ASX 20th October 2015 Sorpresa Drilling - Best Intersection of 3m @ 20.42g/t Au AND 4m @ 5.34g/t Au ASX 20th November 2015 Sorpresa Drilling gives 13m @ 8.46g/t gold (incl. 2m @ 31.35g/t) at shallow depths ASX 27th November 2015 CEO Presentation Corporate and Exploration AGM 2015 ASX 4th December 2015 New Drilling Results Include 9m @ 18.15g/t gold at Sorpresa, Fifield NSW ASX 27th January 2016 Activities Report December Quarter 2015 ASX 8th February 2016 Drilling results give 15m @3.91g/t Au & 223g/t Ag, Incl. 1m @ 40.40g/t Au and 1m @ 1200g/t Ag ASX 19th February 2016 7m @ 13.41g/t Au & 751g/t Ag from 19m at Sorpresa, incl. 1m @ 76.70g/t Au & 2490/t Ag ASX 21st March 2016 Sorpresa Drilling Results at Roadside Area and Regional Sampling Programs ASX 7th April 2016 Presentation to Mines and Money Asia Forum ASX 21st April 2016 RC Drilling results include 7m at 4.60g/t Gold with 199g/t Silver at Sorpresa ASX 16th May 2016 7m at 2.44g/t Gold and 461g/t Silver at Sorpresa Fifield NSW ASX 31st May 2016 9m at 16.10g/t Gold and 297g/t Silver (incl. 1m @70.2g/t Au) ASX 6th July 2016 High Grades at Sorpresa incl. 1m @ 6.24g/t Gold and 3170 g/t Silver

Table 5: JORC Code Reporting Criteria

Section 1 Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
Sampling techniques	channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.	RC Samples are collected at 1m intervals from the cyclone in plastic bags. RAB Samples are collected at 1m intervals from the cyclone in plastic bags. 1 metre intervals are sampled from all Auger holes within in situ weathered basement geology. Nominal 2 kg samples are collected at the drill rig. Rock Chips samples are a mix of float, sub crop & outcrop (identified in results table).
	appropriate calibration of any measurement tools or systems used.	Industry standard QAQC protocols with insertion of certified reference samples, blank samples and field duplicates are included every 25, 51 and 52nd sample respectively. Previously duplicates were every 50
	mineralisation that are Material to the Public Report.	RC Hole collars are surveyed using a Garmin GPS, and Trimble DGPS. Downhole surveying in RC hole is conducted every 20m open hole, and where required every 50m in-rod using stainless steel rods. All other drill and sample locations are surveyed using Garmin GPS.
Drilling techniques	Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other	Reverse Circulation conducted using face sampling hammer (119mm diameter). RAB drilling conducted using blade bit (100mm diameter). Auger drilling conducted by trailer mounted hydraulic driven auger rig with nominal hole diameter of 100mm.

e noted during logging
s. These are compared
ecked for recovery, on. A cyclone and riffle o provide a uniform inely cleaned. The g of each rod to auto- lry sample. e visually checked for amination. Auger and I below the water
oor sample recovery ir however close son to results showed e bias in the results ples.
chips records colour, cion, mineralisation entage estimates nt. Drill samples are into chip trays.
chips is qualitative by retained for future
ed
elease

Criteria	JORC Code explanation	Commentary
Sub-sampling techniques and sample preparation continued.	· If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.	Reported RC results have been riffle split. Lower priority RC intervals are speared samples and if found to be anomalous will be subsequently riffle split and re-assayed. Wet samples are not put through riffle splitter but homogenized and subsampled using small spear. Sample returned from 1 metre RAB interval is homogenized and speared and composited and maximum composite interval within significant intersection is provided with result. Sample returned from 1 metre auger interval is homogenized in collection tray and speared. All RAB and Auger samples were dry. Rock Chips are sawn in half with half submitted for analysis.
	· For all sample types, the nature, quality and appropriateness of the sample preparation technique.	Sub-samples obtained from riffle splitting are submitted as 1m intervals or composited to 2m (equal weights) to produce a bulk 2kg sample, subsamples of occasional wet metres are composited similarly. Lower priority zones are speared and composited on 4m intervals. The homogenization and spearing method is typical for sampling RAB and auger returns and QAQC results identify that the methods used are appropriate to the style of mineralisation.
	Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.	Industry standard QAQC protocols with insertion of certified reference samples, blank samples and field duplicates are included every 50, 51 and 52nd sample respectively. No wet samples are put through the riffle splitter which is checked between samples and cleaned (when necessary) between samples. Equal weights (estimated from equal volumes) are collected for composited intervals.
	Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.	QAQC results of field duplicate analysis identify that the methods used are appropriate to the style of mineralisation.
	· Whether sample sizes are appropriate to the grain size of the material being sampled.	QAQC results of field duplicate analysis identify that the methods used are appropriate to the style of mineralisation.

Criteria	JORC Code explanation	Commentary
Quality of assay data and	· The nature, quality and	Reported RC samples are dispatched to ALS Laboratories
laboratory tests	appropriateness of the assaying	with Au determined by Au_AA26.
	and laboratory procedures used	
	and whether the technique is	RAB and Auger samples are dispatched to ALS
	considered partial or total.	Laboratories with Au determined by fire assay methods
		Au-AA22 (or PGM-ICP24) which returns Au to 2ppb (or 1
		ppb) respectively, PGM-ICP24 includes Pt to 5 ppb and Pd
		to 1 ppb on a 50g charge. Selected auger samples were
		also submitted for full suite multi-element analysis are
		via Four Acid Digest method ME-MS61.
		Rock chip samples are submitted to ALS Laboratories for
		Au via Fire Assay method Au-AA22 to 2 ppb and full suite
		multi-element analysis are via Four Acid Digest method ME-MS61.
		Fire Assay analysis for gold and Four Acid digest for
		multielement analysis are considered as total techniques
		in the absence of coarse metal. Screen Fire Assay for gold
		is considered as total technique when coarse gold is
		present.
	· For geophysical tools,	All significant results reported from NATA accredited
	spectrometers, handheld XRF	laboratory.
	instruments (fpXRF), etc, the	Handheld XRF (fpXRF) (Olympus Delta50) is used to
	parameters used in determining	determine sample character and type applied to 1m riffle
	the analysis including instrument	split or composite. All data is collected using a 30
	make and model, reading times,	seconds reading time (this is sometimes modified to
	calibrations factors applied and	15secs, if stable readings are achievable) for each of the
	their derivation, etc.	3 beams in soil mode. XRF analysis is typically applied to
		a single point on the sample bag of interest. Results may
		be cross checked with additional XRF readings, including
		further subsamples. The known limitations of XRF,
		particularly element strengths and weaknesses, are
		considered. XRF is a scoping and order of magnitude
		tool, the Company is an expert user of XRF. Trends and
		comparisons in XRF readings are examined. Laboratory
		assays may be sought for further validation. XRF results are considered as guidance for subsequent laboratory
		assay
	· Nature of quality control	Reviews of internal QAQC results has shown that the
	procedures adopted (e.g.	field sampling, riffle splitting compositing methods used
	standards, blanks, duplicates,	are appropriate to the mineralisation being tested.
	external laboratory checks) and	External laboratory analysis of "umpire" samples confirm
	whether acceptable levels of	results from the primary laboratory.
	accuracy (i.e. lack of bias) and	
	precision have been established.	

Criteria	JORC Code explanation	Commentary
Verification of sampling	· The verification of significant	All reported intersections are independently
and assaying	intersections by either independent or	reviewed by 2 company personnel
	alternative company personnel.	
	· The use of twinned holes.	Hole Twinning when used, is reported.
	The doc or trimined heres.	
	· Documentation of primary data, data	Primary field data is captured electronically
	entry procedures, data verification, data	using established templates. Assay data
	storage (physical and electronic) protocols.	from laboratory is merged and loaded into
		Access based database after passing QAQC
		checks. Database audit of loaded batches is
		conducted on a monthly basis.
	· Discuss any adjustment to assay	"<" values are converted
	data.	into "-" values and for geochemical
		analysis results returning less than
		detection are ascribed to half the
Lacation of data mainte	According to the second to	detection limit.
Location of data points	Accuracy and quality of surveys used to	Drill collars are located using handheld Garmin GPS and are RC collars are picked
	locate drill holes (collar and down-hole surveys), trenches, mine workings and other	up by a Trimble Differential GPS.
	locations used in Mineral Resource	Downhole digital multi-shot surveys are
	estimation.	conducted every 20m, open hole where
		practical, or in stainless steel rods every
		50m.
	Specification of the grid system used.	GDA94 zone55
	· Quality and adequacy of	Collar elevation data from digital terrain
	topographic control.	model derived from detailed ground
		gravity survey DGPS data used as an
		interim measure prior to DGPS pick up of collar location. Other elevation data
		sourced from handheld GPS.
Data spacing and	Data spacing for reporting of	RC Exploration was on nominal 80 X
distribution	Exploration Results.	100m grid down to 40 X 40m grid and
		then down to 20 X 20m grid, or as
		described.
		RAB exploration conducted on traverses
		with coverage on 60° dipping holes.
		Auger exploration currently on a nominal
		100 X 20m grid or as described. Rock
		Chip samples not on a defined grid
		pattern.

Criteria	JORC Code explanation	Commentary
Data spacing and	· Whether the data spacing and	The nominal RC exploration grid is
distribution continued.	distribution is sufficient to establish the	deemed adequate to identify
	degree of geological and grade continuity	mineralisation envelopes which are
		infilled as appropriate. The RAB hole spacing
		and nominal auger exploration grid are
	classifications applied.	deemed most suitable to identify
		mineralisation at a scale of interest to the
		company. This is adequate to establish
		continuity in this environment however
		closer spaced drilling may be warranted in
		certain locations for further definition.
	· Whether sample compositing has	Compositing conducted at 2 and 4
	been applied.	meter intervals in RAB and RC samples.
		Equal weights from each 1 meter
		interval are used to ensure that the
		composite adequately represents the
		intervals sampled. The equal weights
		are estimated from equal volume
		measure used when subsampling.
		Auger samples are taken on 1 metre
		intervals.
Orientation of data in	· Whether the orientation of sampling	Current observations do not suggest a
relation to geological		bias in sampling from the drilling
structure	structures and the extent to which this is	orientation.
	known, considering the deposit type.	
	· If the relationship between the drilling	The drilling orientation is designed to
		intercept the mineralisation orthogonally
	mineralised structures is considered to have	where known.
	introduced a sampling bias, this should be	
	assessed and reported if material.	
Sample security	· The measures taken to ensure	Sample identification is independent of
	sample security.	hole identification. Samples are stored in a
		secure on- site location, under supervision
		and transported to ALS Orange NSW via
		Rimfire personnel or licensed couriers.
Audits or reviews	,	Internal reviews of QAQC data has shown
		that the field sampling, riffle splitting and
		compositing methods used are
		appropriate to the mineralisation being
		tested.

Section 2 Reporting of Exploration Results

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and	Reported results all from 100% Rimfire Pacific Mining NL tenements at Fifield NSW, which may include EL5534, EL6241, EL7058, EL7959, EL5565, MC(L)305, MC(L)306. All samples were taken on Private Freehold and / or Common Land (prescribed for mining). No native title exists. The land is used primarily for grazing and cropping.
	The security of the tenure held at the time of reporting along with any known impediments to obtaining a license to operate in the area.	The tenement is in good standing, and all work is conducted under specific approvals from NSW Trade and Investment, Mineral Resources.
Exploration done by other parties		Recent systematic exploration (1980 onwards) has been conducted by Ausplat Minerals NL in JV with Golden Shamrock Mines Ltd and Mount Gipps Ltd, Titan Resources and also Helix Resources and Black Range Minerals NL. Prior to this Exploration for various metals in the Fifield area has been conducted by a number of companies since the late 1960's including Anaconda, CRA Exploration Pty Ltd, Platina Developments NL, Mines Search Pty Ltd, Broken Hill Proprietary Company Ltd, Mt Hope Minerals and Shell.
Geology	 Deposit type, geological setting and style of mineralisation. 	The mineralisation currently being pursued at Sorpresa appears to have many similarities with typical carbonate base metal epithermal gold style, in a Siluro Devonian back arc basin setting. Other mineralisation styles include sediment and greenstone hosted orogenic gold and VMS.
Drill hole Information	tabulation of the following	Plans showing location of drill holes and also location of significant results and interpreted trends are provided in the figures of report. Any new significant RC results are provided in tables within the report. Any new significant RAB results are provided in tables in within the report.

Criteria	JORC Code explanation	Commentary
Drill hole Information Continued.	dip and azimuth of the hole down hole length and interception depth	Any new significant rock chip results are provided in tables within the report. Any new significant Auger results are provided in figures within the report.
	If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case.	Information is provided in significant results tables.
Data aggregation methods	 In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated. 	No averaging or cut-off values are applied to auger or rock chip results. Only significant RAB results >0.1g/t Au are reported using thickness weighted average for intervals with < or = 2m internal dilution. For RC results thickness weighted averages are reported for all intervals. Reported intervals are calculated using ≥ 0.1g/t Au and or ≥ 10g/t Ag cut off and ≤ 2m Internal Dilution.
	Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.	High grade intervals within in larger intersections are reported as included intervals and noted in results table. Aggregation utilises thickness weighted mean calculations.
	 The assumptions used for any reporting of metal equivalent values should be clearly stated. 	Metal equivalents are not reported.
Relationship between mineralisation widths and intercept lengths	 These relationships are particularly important in the reporting of Exploration Results. 	Drill holes are designed to intersect the plane of mineralisation (where this is known) at 90° so that reported intersections represent true thickness.
	If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. If it is not known	All intersections are subsequently presented as downhole lengths. If down hole length varies significantly from known true width then appropriate notes are provided.

Criteria	JORC Code explanation	Commentary
Diagrams	Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.	Refer to Figures
Balanced reporting	· Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.	This information is provided in results Table and comments in the report.
Other substantive exploration data	meaningful and material, should be reported including (but not limited	There is currently no other substantive exploration data that is meaningful and material to report, beyond that reported already, in this or previous reports.
Further work	The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).	Further work is discussed in the document in relation to the exploration results.
	Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.	Refer to Figures