ASX: RGL



### YILGANI DRILLING OUTLINES 2.6KM LONG GOLD TARGET

- Yilgani aircore drilling outlines 2.6km long zone of gold anomalism at West Target
- Results include 4m @ 658ppb Au in YLAC0346 (repeat assay 4m @ 1.73g/t Au)
- Gold and pathfinder anomalism parallels aeromagnetic/gravity structures

**Riversgold Limited** (**ASX: RGL**, "Riversgold") is pleased to report on the results of the recent aircore drilling campaign at its Yilgani Project, located approximately 100km east of Kalgoorlie-Boulder, in the Eastern Goldfields of Western Australia.

The Yilgani Project contains approximately 25km of the Yilgangi Fault, which hosts gold mineralisation at the Pinnacles and Carosue Dam gold deposits to the north. Riversgold has conducted three programmes of aircore drilling at Yilgani, so far, and has outlined three potential gold targets (Figure 1).

Aircore drilling of the "West Target" was completed on 300m spaced lines with holes at 100-200m intervals along the lines and drilled vertically to "refusal". The holes aimed to follow up a NE-trending gold anomaly outlined by the previous drilling campaign (see ASX release dated 7 February 2018).

Assays from the recent drilling campaign have outlined a 2.6km long zone of gold and pathfinder anomalism which closely follows the NE-trending structures interpreted from both regional aeromagnetic data and the recently completed project-wide gravity survey (see ASX release dated 28 March 2018).

These bedrock structures are cross-cut by a paleochannel and a series of small claypans (Figure 2).

Significant results from the recent aircore drilling programme included the following:

- YLAC0335 4m @ 87ppb Au from 72m (southernmost line of survey)
- YLAC0339 4m @ 143ppb Au from 36m (western end of survey)
- YLAC0345 12m @ 75ppb Au from 48m (eastern end of survey)
- YLAC0346 4m @ 658ppb Au from 72m (repeat assay 4m @ 1.73g/t Au)
- YLAC0356 4m @ 145ppb Au from 48m
- YLAC0357 3m @ 95ppb Au from 76m to EOH
- YLAC0377 4m @ 340ppb Au from 76m

Locations of all drill holes are listed in Table 1 with schematic cross sections attached as Figures 3 - 6.

The NE-trending gold anomalism is associated with weathered mafic rocks whilst disseminated pyrite is observed in YLAC0335 and YLAC0356.

The best assay result, from YLAC0346 (4m @ 658ppb Au with a repeat assay of 4m @ 1.73g/t Au), is located at the contact between channel sands and mafic saprolite with disseminated pyrite. Large quartz fragments/pebbles were observed within the mineralised sample, so it is unclear at this stage whether the gold in this hole is in-situ or transported within the paleochannel.

Riversgold's Managing Director said that the Company was encouraged by general increase in the tenor of the gold results as the drill spacing had closed in.

"We are also starting to see anomalism in pathfinder elements, such as silver and tellurium, supporting the theory that the gold anomalism is likely to be related to a primary source," Mr Kelly said.

"We are therefore planning to infill both the drilling and the gravity survey within the West Target, whilst further wide-spaced aircore drilling will also be scheduled for the East and North Targets," he added.



Figure 1. Yilgani Project showing all drilling to date and target areas.



**Figure 2.** West Target showing recent aircore drilling results over GSWA regional interpreted geology (green – mafic rocks, pink – granites, yellow – felsic volcaniclastics, purple - ultramafics).



Figure 3. Cross Section 6609100mN



Figure 4. Cross Section 6609400mN



Figure 5. Cross Section 6609700mN



Figure 6. Cross Section 6610300mN

Hole ID	East	North	RL	EOH Depth	From	То	Interval	Au	Au Rpt
				(m)	(m)	(m)	(m)	(ppb)	(ppb)
YLAC0321	446997	6609006	353	57				NSA	
YLAC0322	446803	6608997	357	31				NSA	
YLAC0323	446396	6609102	326	36				NSA	
YLAC0324	446196	6609094	330	25				NSA	
YLAC0325	446006	6609118	335	19				NSA	
YLAC0326	445803	6609104	338	18				NSA	
YLAC0327	445599	6609111	338	22				NSA	
YLAC0328	445404	6609100	339	42				NSA	
YLAC0329	445210	6609105	341	48				NSA	
YLAC0330	445004	6609109	336	54				NSA	
YLAC0331	444804	6609101	325	66				NSA	
YLAC0332	444690	6609098	241	75				NSA	
YLAC0333	444609	6609102	246	84				NSA	
YLAC0334	444495	6609103	258	84				NSA	
YLAC0335	444396	6609100	267	90	68	72	4	87	81
YLAC0336	444309	6609110	270	72				NSA	
YLAC0337	444205	6609101	267	71				NSA	
YLAC0338	444109	6609103	232	78	36	40	4	143	138
YLAC0339	444109	6609426	236	72				NSA	
YLAC0340	444312	6609396	260	71				NSA	
YLAC0341	444505	6609423	266	76				NSA	
YLAC0342	444714	6609374	240	63				NSA	
YLAC0343	444903	6609390	259	69				NSA	
YLAC0344	445085	6609429	274	74	28	32	4	59	
YLAC0345	446492	6609701	278	78	48	52	4	91	
					52	56	4	73	
					56	60	4	62	
YLAC0346	446308	6609686	275	85	72	76	4	658	1,725
					76	80	4	110	
YLAC0347	446114	6609695	308	64				NSA	
YLAC0348	445905	6609700	318	42				NSA	
YLAC0349	445700	6609703	324	43				NSA	
YLAC0350	445511	6609695	319	46				NSA	
YLAC0351	445291	6609707	330	88				NSA	
YLAC0352	445199	6609701	351	90				NSA	
YLAC0353	445103	6609702	369	89				NSA	
YLAC0354	444999	6609698	328	82	52	56	4	54	
YLAC0355	444907	6609696	333	79				NSA	
YLAC0356	444804	6609692	336	76	48	52	4	145	147
YLAC0357	444696	6609698	340	79	76	<b>79EOH</b>	3	95	84
YLAC0358	444601	6609694	337	81				NSA	
YLAC0359	444496	6609707	291	85				NSA	
YLAC0360	444401	6609690	295	81				NSA	
YLAC0361	444294	6609703	300	73				NSA	
YLAC0362	444191	6609695	313	72				NSA	
YLAC0363	444107	6609705	312	73				NSA	
YLAC0364	444107	6609989	310	87	0	4	4	65	
YLAC0365	444101	6610163	265	81				NSA	

Table 1. Hole collars and	significant results from	Yilgani phase 3	aircore drilling.

Hole ID	East	North	RL	EOH Depth (m)	From (m)	To (m)	Interval (m)	Au (ppb)	Au Rpt (ppb)
YLAC0366	444206	6610162	293	83				NSA	
YLAC0367	444304	6610303	300	76				NSA	
YLAC0368	444393	6610305	304	68				NSA	
YLAC0369	444486	6610303	309	58				NSA	
YLAC0370	444606	6610289	312	37				NSA	
YLAC0371	444709	6610291	320	39				NSA	
YLAC0372	444808	6610294	332	36	28	32	4	60	59
YLAC0373	444907	6610297	338	28				NSA	
YLAC0374	445002	6610298	353	31				NSA	
YLAC0375	445099	6610307	367	54				NSA	
YLAC0376	445199	6610306	383	78				NSA	
YLAC0377	445329	6610299	332	81	76	80	4	340	108
YLAC0378	445481	6610309	331	70				NSA	
YLAC0379	445595	6610154	337	70				NSA	
YLAC0380	445702	6610097	337	66				NSA	
YLAC0381	445900	6610127	329	68				NSA	
YLAC0382	446114	6610315	265	72	60	64	4	56	52
YLAC0383	446306	6610306	270	81				NSA	
YLAC0384	446498	6610313	278	72				NSA	
YLAC0385	445404	6610308	297	66				NSA	
YLAC0386	446487	6611105	302	25				NSA	
YLAC0387	446302	6611096	302	38				NSA	
YLAC0388	446094	6611082	300	31				NSA	
YLAC0389	446013	6611099	298	28				NSA	
YLAC0390	445904	6611095	266	40				NSA	
YLAC0391	445805	6611096	269	57				NSA	
YLAC0392	445702	6611095	275	59				NSA	
YLAC0393	445600	6611104	280	53				NSA	
YLAC0394	445506	6611098	296	33				NSA	
YLAC0395	445400	6611095	295	10				NSA	
YLAC0396	445193	6611098	296	11				NSA	
YLAC0397	445005	6611108	294	11				NSA	
YLAC0398	444806	6611091	289	48				NSA	

#### Note:

- Collar coordinates in MGA Zone 51S
- All holes drilled with -90-degree dip (i.e. azimuth 000 degrees) to blade refusal
  Results listed for all samples >50ppb Au, NSA No Significant Assay

Allan Kelly Managing Director Riversgold Limited info@riversgold.com.au Michael Vaughan Fivemark Partners +61(0)422 602 720 michael.vaughan@fivemark.com.au

#### About the Yilgani Project

The Yilgani Project is located approximately 100km east of Kalgoorlie-Boulder in the Eastern Goldfields of Western Australia and is characterised by a 25km long package of north-south trending greenstone stratigraphy along a major regional structure, the "Yilgangi Fault", which hosts gold mineralisation at the Pinnacles and Carosue Dam gold deposits to the north.

The local geology within Riversgold's Yilgani tenements is interpreted to represent the westerly dipping western limb of a regional antiform, with the easterly dipping eastern limb hosting the recent "Lake Roe" gold discovery currently being explored by Breaker Resources Limited.

#### **About Riversgold Limited**

Riversgold is a new mineral exploration company which listed on the ASX in October 2017 and has a portfolio of gold exploration projects within the Eastern Goldfields of Western Australia, the Tintina Gold Belt in southwest Alaska, USA, and the Gawler Craton of South Australia.

The Company also has a number of applications for mineral exploration tenements in Cambodia, adjacent to the 1 million-ounce Okvau gold deposit.

Riversgold's Board has a track record of successful discovery, development and production.

#### **Competent Person Statement**

The information in this document that relates to Exploration Results is based on information compiled by Mr Allan Kelly, a Competent Person who is a Member of The Australian Institute of Geoscientists (AIG). Mr Kelly is the Managing Director and CEO of Riversgold Ltd. He is a full-time employee of Riversgold Ltd and holds shares and options in the Company.

Mr Kelly has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking 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'. Mr Kelly consents to the inclusion in this announcement of the matters based on this information in the form and context in which it appears.

The Company confirms that it is not aware of any new information or data that materially affects the information in the original market announcements, and that the form and context in which the Competent Persons findings are presented have not been materially modified from the original market announcements.

# *Section 1 Sampling Techniques and Data – Yilgani aircore drilling* (Criteria in this section apply to all succeeding sections.)

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul> <li>Nature and quality of sampling (e.g. cut 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.</li> </ul>	<ul> <li>Samples were composited in to 4m composites from scoops of material from four individual 1-meter aircore samples to obtain approximately 2.5-3kg per sample</li> </ul>
	<ul> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> </ul>	
	<ul> <li>Aspects of the determination of mineralisation that are Material to the Public Report.</li> </ul>	
	<ul> <li>In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information.</li> </ul>	
Drilling techniques	<ul> <li>Drill type (e.g. core, reverse circulation, open- hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails,</li> </ul>	<ul> <li>Aircore drilling with a blade bit was completed to "refusal", giving 1-2m of fresh bedrock sample</li> </ul>
	face-sampling bit or other type, whether core is oriented and if so, by what method, etc).	Drill holes were drilled vertically
Drill sample recovery	<ul> <li>Method of recording and assessing core and chip sample recoveries and results assessed.</li> <li>Measures taken to maximise sample recovery and ensure representative nature of the samples</li> </ul>	<ul> <li>Sample was collected via a cyclone and a bucket and then laid out as 1m samples on the ground</li> </ul>
	<ul> <li>Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.</li> </ul>	
Logging	• Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.	Samples were wet sieved and logged for colour, weathering, grain size, major lithology (where possible) along with any visible alteration, sulphides or other mineralisation
	<ul> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> </ul>	The entire hole is logged
	The total length and percentage of the relevant intersections logged.	
Sub- sampling	• If core, whether cut or sawn and whether	Samples were composited over 4m

Criteria	JORC Code explanation	Commentary
techniques	quarter, half or all core taken.	intervals
preparation	<ul> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> </ul>	Samples were generally dry
		<ul> <li>Duplicate samples were taken at the frequency of 1 duplicate per 100</li> </ul>
	<ul> <li>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</li> </ul>	samples
	<ul> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> </ul>	
	<ul> <li>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.</li> </ul>	
	<ul> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	
Quality of assay data and laboratory tosts	<ul> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> </ul>	<ul> <li>Samples were submitted for analysis of Au and 32 elements by aqua-regia digest of a 25g sub-sample of pulverised material followed by analysis by ICPMS</li> </ul>
10515	<ul> <li>For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.</li> </ul>	<ul> <li>QAQC samples were added at a frequency of 3 standard/blank per 100 samples and 1 duplicate per 100 samples (i.e. 4 QAQC samples per 100 samples)</li> </ul>
	<ul> <li>Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established.</li> </ul>	
Verification of sampling and	<ul> <li>The verification of significant intersections by either independent or alternative company personnel.</li> </ul>	<ul> <li>All data was recorded digitally and entered into the company database</li> </ul>
assaying	• The use of twinned holes.	
	<ul> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> </ul>	
	Discuss any adjustment to assay data.	
Location of data points	<ul> <li>Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.</li> </ul>	<ul> <li>Drill holes were planned on an 300m x 100-200m grid, with the hole located within +/-10m of the intended position</li> <li>The actual site of each completed drill hole (Easting, Northing and elevation)</li> </ul>
	• Specification of the grid system used.	was recorded with a handheld GPS
	Quality and adequacy of topographic control.	
Data spacing and	<ul> <li>Data spacing for reporting of Exploration Results.</li> </ul>	<ul> <li>Drill holes were planned on an 300m x 100-200m grid, with the hole located within 1/10m of the intended position</li> </ul>
anu	• Whether the data spacing, and	within +/- ium of the intended position

Criteria	JORC Code explanation	Commentary
distribution	<ul> <li>distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.</li> <li>Whether sample compositing has been applied.</li> </ul>	<ul> <li>The current drill spacing is broad spaced and designed to follow up regolith anomalism generated by the initial reconnaissance aircore programme completed in early 2018</li> <li>Samples were composited over 4m intervals</li> </ul>
Orientation of data in relation to geological structure	<ul> <li>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</li> <li>If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.</li> </ul>	<ul> <li>Drilling is along E-W traverses, orthogonal to the general trend of stratigraphy</li> <li>Drill holes are vertical, whereas is it interpreted that the stratigraphy has a sub-vertical or steep westerly dip</li> </ul>
Sample security	The measures taken to ensure sample security.	<ul> <li>Samples were placed in calico bags which were then placed in larger polyweave bags and sealed with cable ties before transport to the laboratory in Kalgoorlie, approximately 100km away by road</li> </ul>
Audits or reviews	<ul> <li>The results of any audits or reviews of sampling techniques and data.</li> </ul>	None completed at this stage

## Section 2 Reporting of Exploration Results – Yilgani aircore drilling

(Criteria listed in the preceding section also apply to this section.)

Criteria	JORC Code explanation	Commentary			
<i>Mineral tenement and land tenure status</i>	• Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.	• The results are located within E28/2583 and E28/2650 which is owned 80% by Riversgold Ltd and 20% by Serendipity Resources Pty Ltd and subject to an exploration Joint Venture, whereby Serendipity is free carried to Decision to Mine.			
	<ul> <li>The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.</li> </ul>	<ul> <li>See Riversgold Replacement Prospectus dated 11 August 2017 for further information in relation to the Exploration JV Agreement</li> </ul>			
Exploration done by other	<ul> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul> <li>Exploration was previously conducted by:</li> </ul>			
parues		<ul> <li>Avoca/Teck JV (auger sampling); and</li> </ul>			
		<ul> <li>Serendipity Resources P/L (auger sampling)</li> </ul>			
		<ul> <li>Newcrest (aircore drilling)</li> </ul>			
Geology	Deposit type, geological setting and style of mineralisation.	<ul> <li>Riversgold is targeting Archaean mesothermal lode gold.</li> </ul>			
Drill hole Information	<ul> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following</li> </ul>	<ul> <li>Summary of anomalous results is shown as Table 1 in the announcement</li> </ul>			

Criteria	JORC Code explanation	Commentary		
	information for all Material drill holes:			
	<ul> <li>easting and northing of the drill hole collar</li> </ul>			
	<ul> <li>elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar</li> </ul>			
	$\circ$ dip and azimuth of the hole			
	$\circ$ down hole length and interception depth			
	o hole length.			
	• 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.			
Data aggregation methods	<ul> <li>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.</li> </ul>	No data aggregation applied		
	• 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.			
	<ul> <li>The assumptions used for any reporting of metal equivalent values should be clearly stated.</li> </ul>			
Relationship between mineralisation widths and intercept lengths	<ul> <li>These relationships are particularly important in the reporting of Exploration Results.</li> <li>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</li> <li>If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not</li> </ul>	<ul> <li>Drill holes are wide spaced and vertical, so no assumptions are currently being made about width of mineralisation</li> <li>Geometry of mineralisation is not known at this stage</li> </ul>		
	known').			
Diagrams	<ul> <li>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.</li> </ul>	<ul> <li>Plan of drill hole collars shown in Figure 1</li> <li>Plan of anomalous results shown in Figure 2</li> <li>List of all hole collars attached as Table 1</li> </ul>		
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.	<ul> <li>All results with 4m @ &gt;=50ppb are listed in Table 1.</li> </ul>		

Criteria	JORC Code explanation	Commentary		
Other substantive exploration data	<ul> <li>Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.</li> </ul>	No other data is available		
Further work	<ul> <li>The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling).</li> <li>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</li> </ul>	<ul> <li>Follow-up aircore drilling of the anomalous zones is planned, along with an infill gravity survey</li> </ul>		