



Record Zinc, Copper and Lead Production at Thalanga

Red River Resources Limited (ASX: RVR) is pleased to report record operating performance from its Thalanga Operations in Northern Queensland during the March quarter.

Highlights:

- Production commences at Far West with 9kt of development ore mined
- Quarterly mine production at West 45 reaches all time high of 97kt ore mined
- Record quarterly tonnage of 109kt ore processed through the Thalanga Mill
- Record quarterly concentrate production:
 - Zinc concentrate produced: +16% from Q2 FY19 to 8,952 tonnes
 - Lead concentrate produced: +25% from Q2 FY19 to 3,763 tonnes
 - Copper concentrate produced: +134% from Q2 FY19 to 1,694 tonnes.

Figure 1 Ore being hauled from Far West decline



Address: Level 6, 350 Collins Street, Melbourne, VIC, 3000, Australia

T: +61 3 9017 5380 F: +61 3 9670 5942 E: info@redriverresources.com.au

www.redriverresources.com.au

Table 1 Thalanga Operations Summary for the March 2019 Quarter (Q3 FY19)

	Units	Q3 FY18	Q4 FY18	Q1 FY19	Q2 FY19	Q3 FY19	YTD FY19
Total Tonnes Mined	kt	65	84	90	96	106*	292*
Copper grade	%	0.4	0.3	0.3	0.4	0.6	0.4
Lead grade	%	2.5	1.9	2.2	2.4	3.1	2.6
Zinc grade	%	4.8	4.3	5.0	5.4	5.8	5.4
Gold grade	g/t	0.2	0.2	0.2	0.2	0.3	0.2
Silver grade	g/t	43	30	31	39	53	42
Zinc equivalent grade	%	9.4	8.1	8.8	9.9	11.9	10.3
Ore Processed	kt	62	70	98	95	109	302
Copper grade	%	0.4	0.4	0.3	0.4	0.5	0.4
Lead grade	%	2.1	2.2	2.2	2.6	2.9	2.6
Zinc grade	%	4.7	4.7	4.3	5.2	5.5	5.0
Gold grade	g/t	0.2	0.2	0.1	0.2	0.3	0.2
Silver grade	g/t	37	40	30	46	55	44
Zinc equivalent grade	%	9.0	9.1	8.2	10.1	11.4	9.9
Zinc Concentrate Produced	DMT	4,428	5,477	6,800	7,695	8,952	23,447
Zinc grade	%	57.9	56.0	55.0	56.8	59.3	57.4
Zinc recovery	%	86.5	88.0	89.2	87.8	88.6	88.5
Lead Concentrate Produced	DMT	1,523	2,065	2,747	3,007	3,763	9,517
Lead grade	%	65.1	58.2	62.2	65.7	69.3	65.9
Copper grade	%	4.6	4.5	4.3	2.9	1.6	2.8
Gold grade	g/t	4.1	3.9	3.6	2.6	2.6	2.9
Silver grade	g/t	944	984	787	786	831	804
Lead recovery	%	73.5	77.3	80.1	80.6	81.9	81.0
Copper recovery	%	26.1	34.2	36.0	22.6	10.3	20.5
Copper Concentrate Produced	DMT	484	330	417	725	1,694	2,836
Copper grade	%	27.1	28.2	27.9	28.6	25.4	26.3
Gold grade	g/t	2.3	2.8	2.3	7.6	6.7	6.3
Silver grade	g/t	494	540	225	1,311	956	940
Copper recovery	%	50.6	34.3	35.1	54.1	73.5	57.4
*Includes 9kt of development ore from Far West Table may include rounding errors							

The Company will release the full March 2019 Quarterly Report before the end of April 2019.

About Red River Resources (ASX: RVR)

RVR is a leading ASX base metal producer, with its key asset being the high quality Thalanga Operation in Northern Queensland. RVR commenced copper, lead and zinc concentrate production at the Thalanga Operation in September 2017.

RVR is focused on maximising returns from the Operation by increasing plant throughput and extending mine life through increasing Mineral Resources and Ore Reserves at deposits currently in the mine plan (West 45, Far West and Waterloo), and by converting Mineral Resources into Ore Reserves at Lontown and Orient and by aggressively exploring our growing pipeline of high-quality targets and projects.

On behalf of the Board,

Mel Palancian

Managing Director

Red River Resources Limited

For further information please visit Red River's website or contact:

Mel Palancian

Managing Director

mpalancian@redriverresources.com.au

D: +61 3 9017 5380

Nathan Ryan

NWR Communications

nathan.ryan@nwrcommunications.com.au

M: +61 420 582 887

Zinc Equivalent Calculation

The net smelter return zinc equivalent (Zn Eq.) calculation adjusts individual grades for all metals included in the metal equivalent calculation applying the following modifying factors: metallurgical recoveries, payability factors (concentrate treatment charges, refining charges, metal payment terms, net smelter return royalties and logistic costs) and metal prices in generating a zinc equivalent value for copper (Cu), lead (Pb), zinc (Zn), gold (Au) and silver (Ag).

Red River has selected to report on a zinc equivalent basis, as zinc is the metal that contributes the most to the net smelter return zinc equivalent (Zn Eq.) calculation. It is the view of Red River Resources that all the metals used in the Zn Eq. formula are expected to be recovered and sold.

Where:

Metallurgical Recoveries are derived from historical metallurgical recoveries from test work carried out at the West 45 and Far West deposits. The Metallurgical Recovery for each metal is shown below in Table 1.

Metal Prices and Foreign Exchange assumptions are set as per internal Red River price forecasts and are shown below in Table 1.

Table 1 Metallurgical Recoveries and Metal Prices

Metal	Metallurgical Recoveries	Price
Copper	80%	US\$3.00/lb
Lead	70%	US\$0.90/lb
Zinc	88%	US\$1.00/lb
Gold	15%	US\$1,200/oz
Silver	65%	US\$17.00/oz
FX Rate: A\$0.85:US\$1		

Payable Metal Factors are calculated for each metal and make allowance for concentrate treatment charges, transport losses, refining charges, metal payment terms and logistic costs. It is the view of Red River that three separate saleable base metal concentrates will be produced at Thalanga. Payable metal factors are detailed below in Table 2.

Table 2 Payable Metal Factors

Metal	Payable Metal Factor
Copper	Copper concentrate treatment charges, copper metal refining charges copper metal payment terms (in copper concentrate), logistic costs and net smelter return royalties
Lead	Lead concentrate treatment charges, lead metal payment terms (in lead concentrate), logistic costs and net smelter return royalties
Zinc	Zinc concentrate treatment charges, zinc metal payment terms (in zinc concentrate), logistic costs and net smelter return royalties
Gold	Gold metal payment terms (in copper and lead concentrates), gold refining charges and net smelter return royalties
Silver	Silver metal payment terms (in copper, lead and zinc concentrates), silver refining charges and net smelter return royalties

The zinc equivalent grade is calculated as per the following formula:

$$\text{Zn Eq.} = (\text{Zn}\% \times 1.0) + (\text{Cu}\% \times 3.3) + (\text{Pb}\% \times 0.9) + (\text{Au ppm} \times 0.5) + (\text{Ag ppm} \times 0.025)$$

The following metal equivalent factors used in the zinc equivalent grade calculation has been derived from metal price x Metallurgical Recovery x Payable Metal Factor and have then been adjusted relative to zinc (where zinc metal equivalent factor = 1).

Table 3 Metal Equivalent Factors

Metal	Copper	Lead	Zinc	Gold	Silver
Metal Equivalent Factor	3.3	0.9	1.0	0.5	0.025