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**MINING & MINERAL  
EXPLORATION**

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WEEKLY BULLETIN:  
RSC MINERAL INTELLIGENCE  
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Week 50 (10 – 16 December 2018)

## 2018: Week 50 overview

	Number	Change
<b>New technical reports published</b>	98	1↓
Amended	5	3↑
Clarified	1	
Resource estimation reports	15	4↓
Maiden resources	2	1↓
Exploration/drilling updates	73	4↑

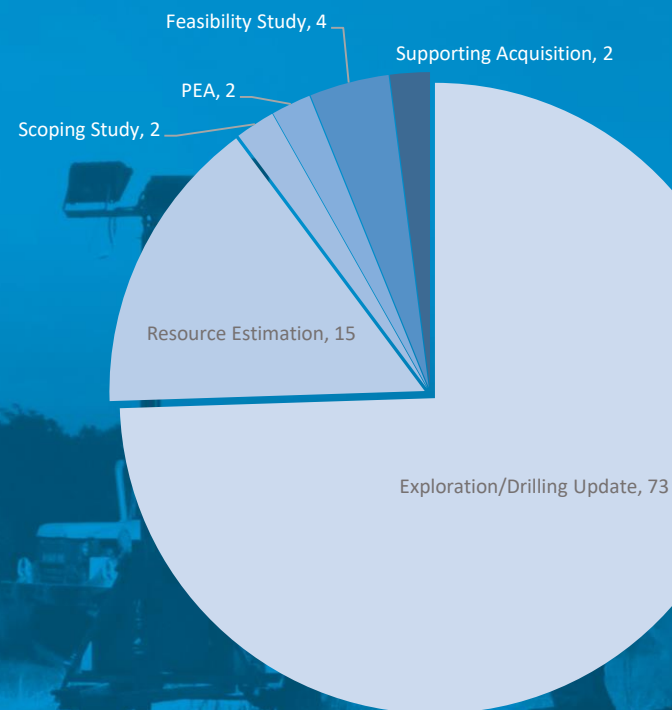
### Other monitored reports

Filed NI43-101 technical reports	6	4↑
Environmental reports	1	1↑
Announced drilling	40	9↓

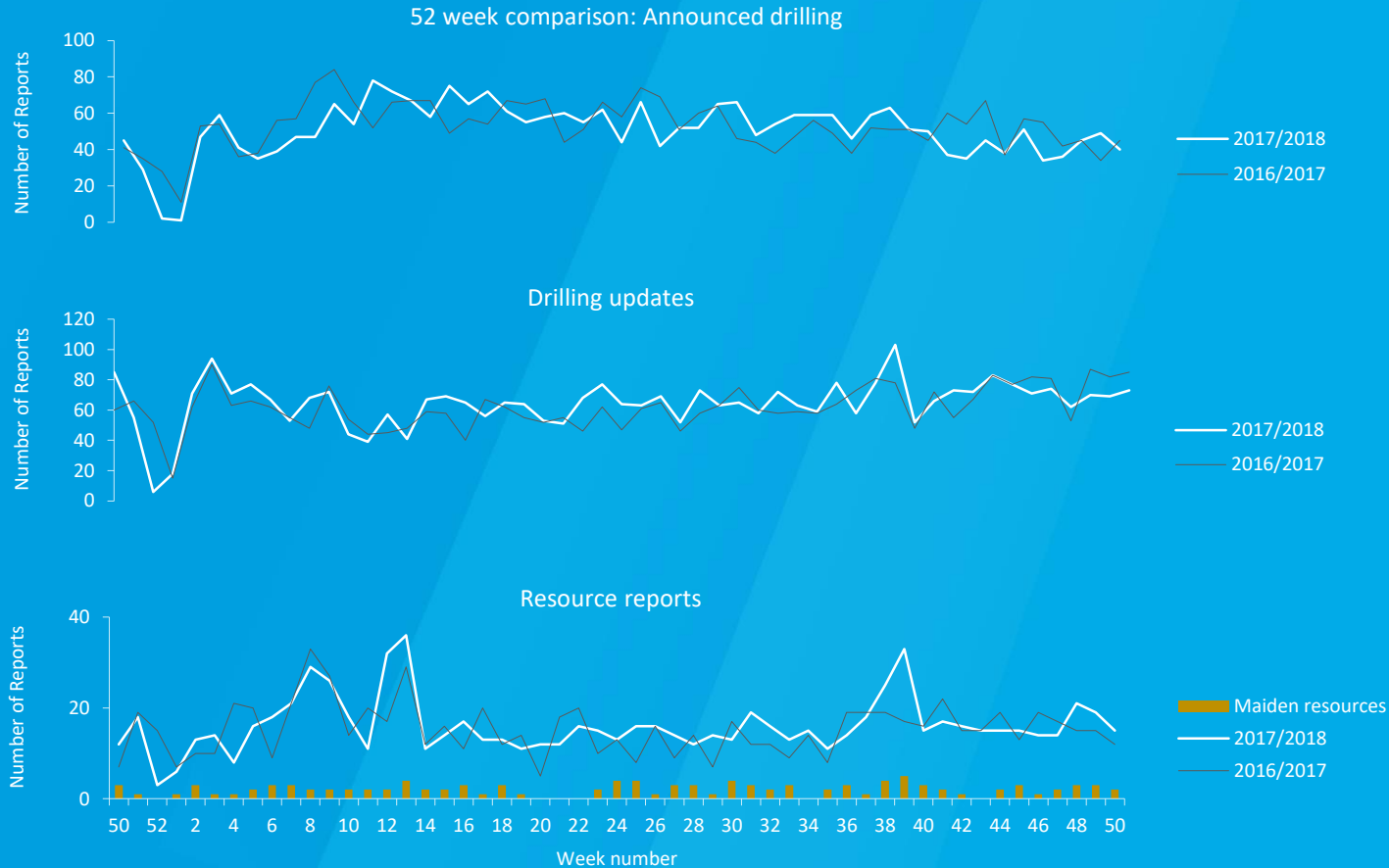
↑↓ shows increase or decrease compared to last week's reporting

Reports included in this publication are from the public reporting domain, using internationally recognised reporting codes and national instruments such as JORC, SAMREC, NI43-101, PERC and other codes in line with CRIRSCO.

Number of reports by code



Number of reports by report type



Resource reports and announced drilling were down from last week. Drilling updates saw a slight increase.

# 4 CORRECTED ANNOUNCEMENTS RELEASED THIS WEEK

company	project	report type	original report release date	share price change*	corrected report release date	share price change*
<b>Galaxy Resources Ltd.</b> (ASX)	<b>Mt Cattlin</b>	Exploration/Drilling Update	28-Nov-18	↑ 4.5%	12-Dec-18	↑ 5.8%
<b>Mount Burgess Mining NL</b> (ASX)	<b>Kihabe-Nxuu</b>	Exploration/Drilling Update	4-Dec-18	0.0%	12-Dec-18	0.0%
<b>Desert Lion Energy Ltd.</b> (TSX-V)	<b>Rubicon Lithium</b>	PEA	1-Nov-18	↑ 28.6%	12-Dec-18	0.0%
<b>New Age Metals Inc.</b> (TSX-V)	<b>Genesis</b>	Supporting Acquisition	29-Aug-18	0.0%	14-Dec-18	0.0%
<b>Azumah Resources Ltd.</b> (ASX)	<b>Wa</b>	Exploration/Drilling Update	12-Dec-18	↑ 13.6%	12-Dec-18	↑ 13.6%
<b>Euro Manganese Inc.</b> (ASX, TSX-V)	<b>Chvaletice</b>	Resource Estimation	12-Dec-18	↓ -15.6%	14-Dec-18	↓ -17.4%

\*between close of trade the day prior to the announcement and open of trade the day after the announcement date.

Location	Projects	Change
North America	36	12↑
Oceania	34	
Africa	15	5↑
South America	5	4↓
Europe	6	4↑
Asia	4	2↑
Seabed Resources		

↓↑ shows increase or decrease compared to last week's reporting

- ◆ Reported project
- ◆ Maiden Resource
- ◆ Maiden Reserve

Map does not include projects mentioned from announced drilling reports.

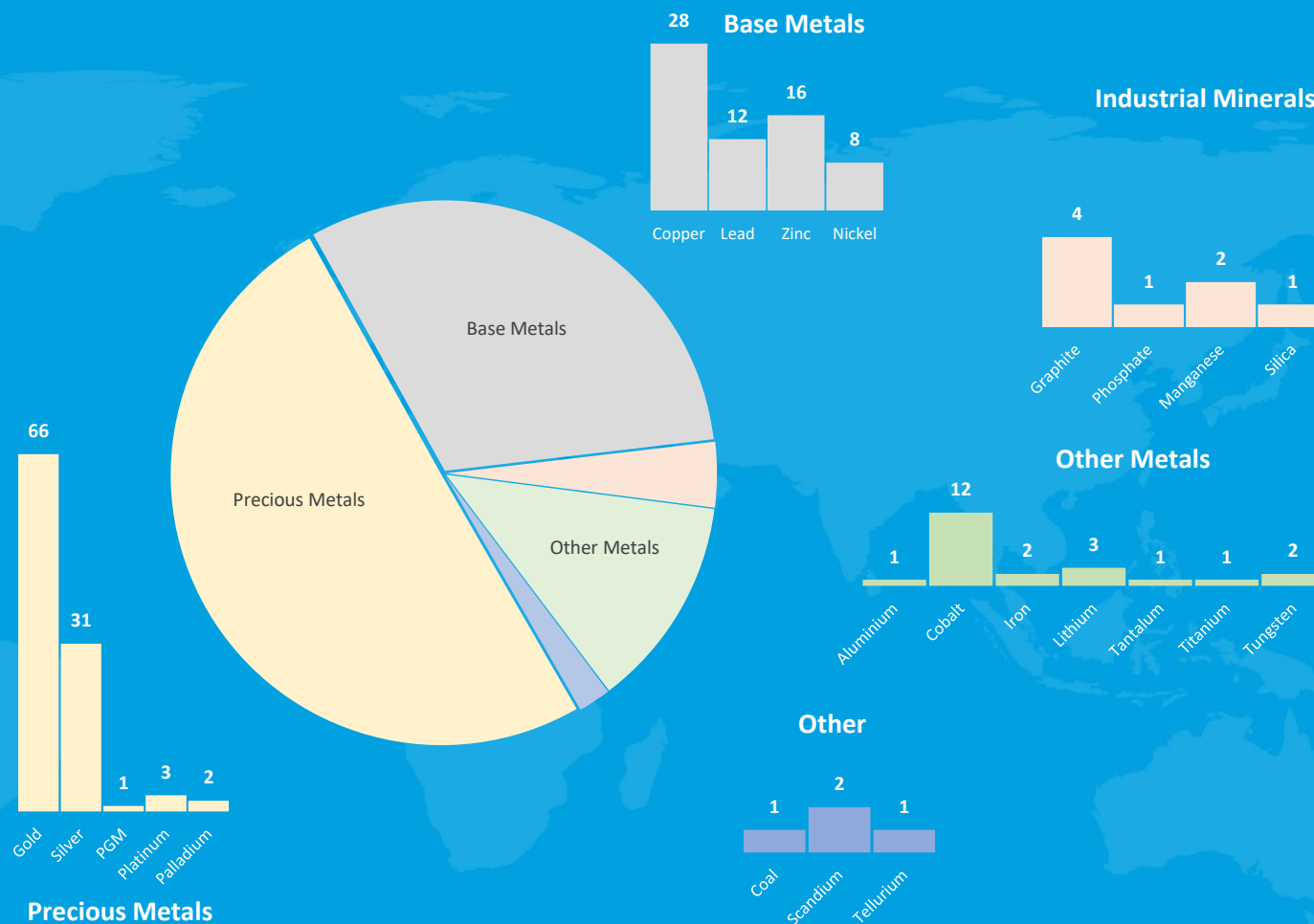


## Up

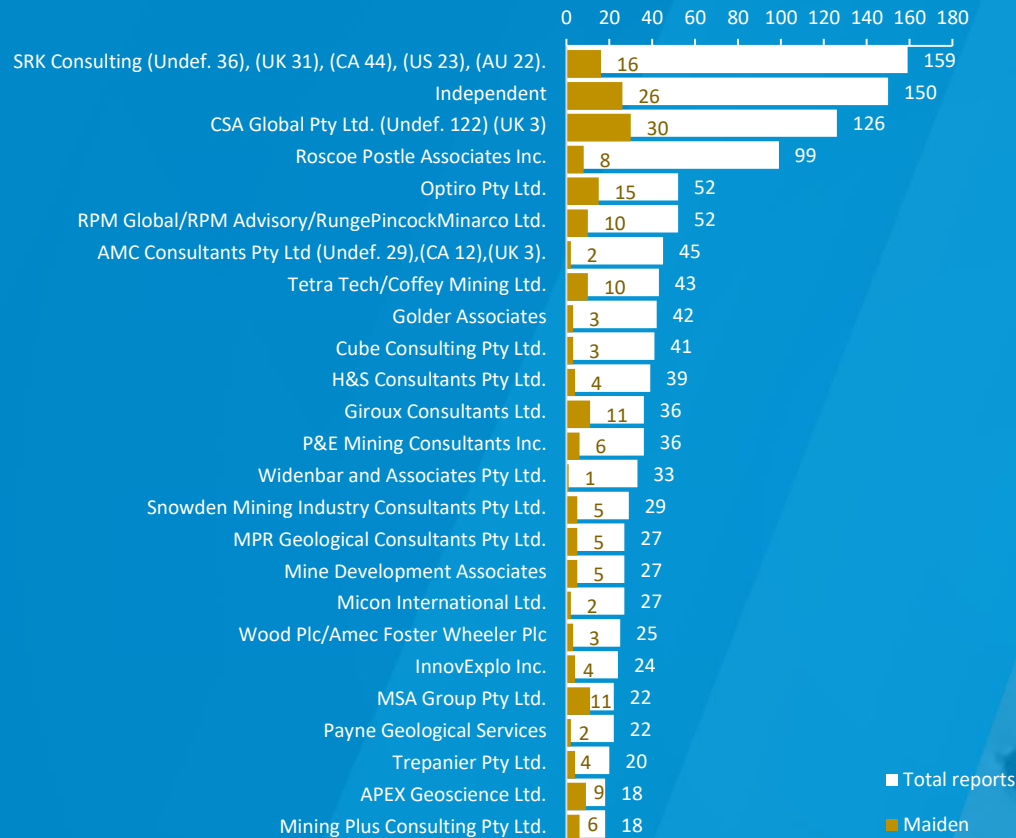
Cobalt	8
Silver	6
Nickel	5
Copper	4
Lead	3
Tungsten	2
Scandium	2
Manganese	2
Platinum	2
Tin	1
Vanadium	1
PGM	1
Silica	1
Titanium	1
Tellurium	1
Phosphate	1
Aluminium	1
Zinc	1

## Down

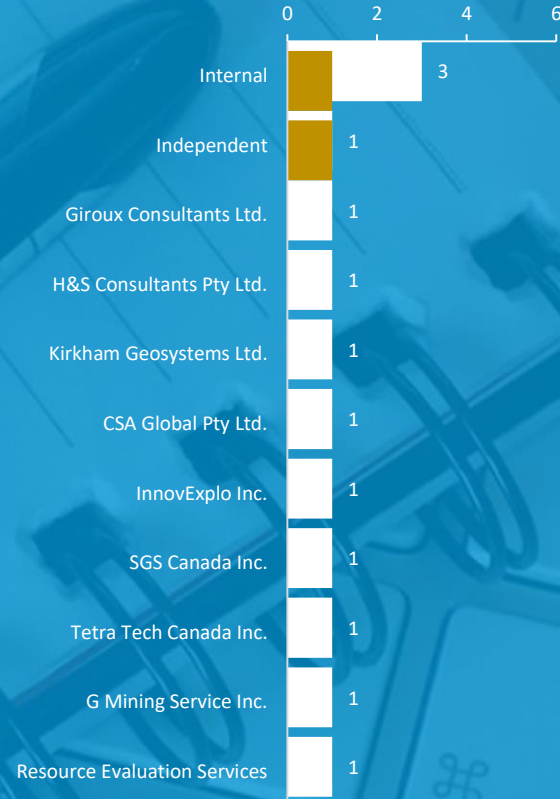
Gold	-9
Lithium	-3
Rare Earth	-3
Tantalum	-1
Molybdenum	-1
Bismuth	-1
Zircon	-1
Rutile	-1
Magnesium	-1
Ilmenite	-1
Boron	-1
Coal	-1
Graphite	-1



## Top 25 since Oct 2014

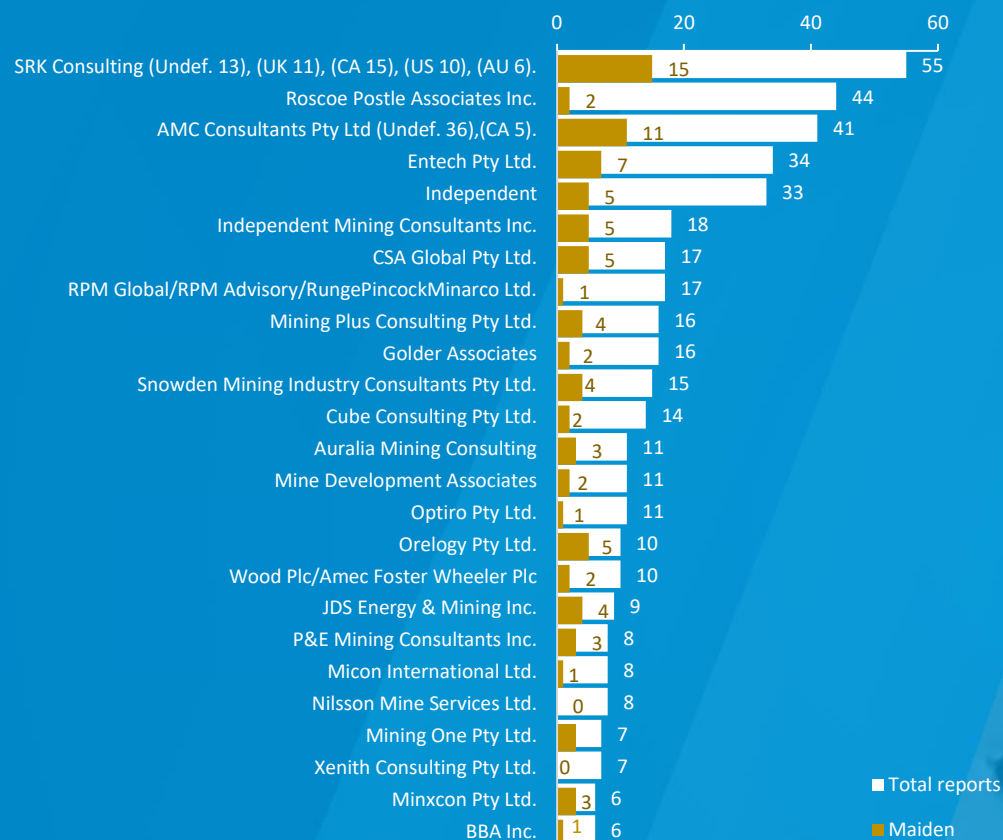


## This Week

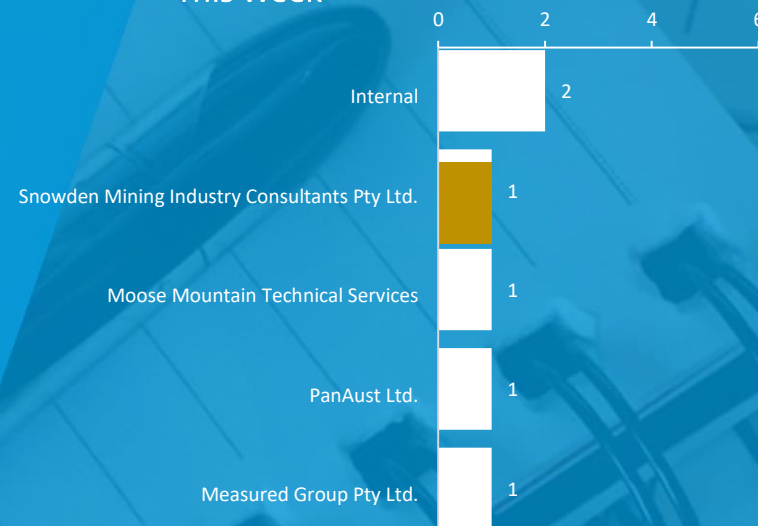


Note: Some reports can contain multiple resource QP's and consulting companies, therefore numbers may not add up to total. Reports are only counted where the resource status is maiden, updated or upgraded.

## Top 25 since Oct 2014



## This Week



Note: Some reports can contain multiple reserve QP's and consulting companies, therefore numbers may not add up to total. Reports are only counted where the reserve status is maiden, updated or upgraded.



## ASX Top 3:

rank	country	company	project	status	commodity	date	hole	intersection	share price chg*	(AuEq.)m**
1		<b>Ramelius Resources Ltd.</b> (ASX)	<b>Mt Magnet</b>	Resource development		10-Dec	GXMM027554	20.0m @ 645g/t Au from 28.0m	 12.5%	<b>12900</b>
2		<b>Kirkland Lake Gold Ltd.</b> (TSX,ASX,NYSE)	<b>Fosterville</b>	Resource development		13-Dec	UDH2643A	6.40m @ 598g/t Au from 344.5m	 3.7%	<b>3830</b>
3		<b>Doray Minerals Ltd.</b> (ASX)	<b>Deflector</b>	Resource development		13-Dec	DFUG0060	0.50m @ 724g/t Au, 18.8% Cu from 86.1m	 2.9%	<b>376</b>

## TSX/TSX-V Top 3:

rank	country	company	project	status	commodity	date	hole	intersection	share price chg*	(AuEq.)m**
1		<b>Kirkland Lake Gold Ltd.</b> (TSX,ASX,NYSE)	<b>Fosterville</b>	Resource development		13-Dec	UDH2643A	6.40m @ 598g/t Au from 344.5m	 3.7%	<b>3830</b>
2		<b>Seabridge Gold Inc.</b> (TSX)	<b>KSM</b>	Resource development		12-Dec	IC-18-82A	1018.2m @ 0.44g/t Au, 0.37% Cu. 1.6g/t Ag from 428.0m	 1.1%	<b>1046</b>
3		<b>Wesdome Gold Mines Ltd.</b> (TSX-V)	<b>Kiena</b>	Resource development		12-Dec	Hole 6370	8.90m @ 120.6g/t Au from 129.4m	 -13.7%	<b>1073</b>









\*between close of trade the day prior to the announcement and open of trade the day after the announcement date.

\*\* see metal prices and formula relevant to AuEq conversions on page 15.













Any of the companies mentioned in this week's table should not use excerpts of this bulletin in their public reporting, including company presentations, websites or social media unless these comply with the relevant clauses of the reporting code for the respective jurisdiction. For ASX-listed companies, this includes clause 50 of the JORC Code (2012). Readers are also advised to review the cautionary statement on the last page of this bulletin.

# 10 SIGNIFICANT DRILL INTERSECTIONS OF THE MONTH: DECEMBER

## ASX Top 5:

rank	country	company	project	status	commodity	date	hole	intersection	share price chg*	(AuEq.)m**
1		<b>Ramelius Resources Ltd.</b> (ASX)	<b>Mt Magnet</b>	Resource development		10-Dec	GXMM027554	20.0m @ 645g/t Au from 28.0m	 12.5%	<b>12900</b>
2		<b>Kirkland Lake Gold Ltd.</b> (TSX,ASX,NYSE)	<b>Fosterville</b>	Resource development		13-Dec	UDH2643A	6.40m @ 598g/t Au from 344.5m	 3.7%	<b>3830</b>
3		<b>Estrella Resources Ltd.</b> (ASX)	<b>Spargoville</b>	Resource development		6-Dec	KWC0004	15m @ 10.45% Ni, 0.78% Cu, 0.20% Co, 0.87g/t Pd, 1.15g/t Pt from 20.0m	 10.0%	<b>517</b>
4		<b>Doray Minerals Ltd.</b> (ASX)	<b>Deflector</b>	Resource development		13-Dec	DFUG0060	0.50m @ 724g/t Au, 18.8% Cu from 86.1m	 2.9%	<b>376</b>
5		<b>Musgrave Minerals Ltd.</b> (ASX)	<b>Cue</b>	Resource development		3-Dec	18MODD008	242m @ 1.0g/t Au from 61m	 3.3%	<b>242</b>

## TSX/TSX-V Top 5:





















rank	country	company	project	status	commodity	date	hole	intersection	share price chg*	(AuEq.)m**
1		<b>Kirkland Lake Gold Ltd.</b> (TSX,ASX,NYSE)	<b>Fosterville</b>	Resource development		13-Dec	UDH2643A	6.40m @ 598g/t Au from 344.5m	 3.7%	<b>3830</b>
2		<b>Seabridge Gold Inc.</b> (TSX)	<b>KSM</b>	Resource development		12-Dec	IC-18-82A	1018.2m @ 0.44g/t Au, 0.37% Cu. 1.6g/t Ag from 428.0m	 1.1%	<b>1046</b>
3		<b>Wesdome Gold Mines Ltd.</b> (TSX-V)	<b>Kiena</b>	Resource development		12-Dec	Hole 6370	8.90m @ 120.6g/t Au from 129.4m	 -13.7%	<b>1073</b>
4		<b>White Gold Corp.</b> (TSX-V)	<b>White Gold</b>	Resource development		6-Dec	RAB14/RC13	30.46m @ 22.47g/t Au, 154.0g/t Ag from 0m	 8.3%	<b>740</b>
5		<b>Osisko Mining Inc.</b> (TSX)	<b>Windfall</b>	Resource development		5-Dec	OSK-W-18-1768	4.3m @ 161.0g/t Au from 268.7m	 2.0%	<b>692</b>

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\*\* see details relating to AuEq conversions on page 15

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## ASX:





















rank	country	company	project	status	commodity	date	hole	intersection	share price chg* (AuEq.)m**
1		<b>Ramelius Resources Ltd.</b> (ASX)	<b>Mt Magnet</b>	Resource development		10-Dec	GXMM027554	20.0m @ 645g/t Au from 28.0m	↑ 12.5% <b>12900</b>
2		<b>Kirkland Lake Gold Ltd.</b> (TSX,ASX,NYSE)	<b>Fosterville</b>	Resource development		13-Dec	UDH2643A	6.40m @ 598g/t Au from 344.5m	↑ 3.7% <b>3830</b>
3		<b>Northern Star Resources Ltd.</b> (ASX)	<b>Kundana</b>	Resource development		20-Feb	PEGRSD17205	3.2m @ 1183.6g/t Au from 187.7m	↓ -2.0% <b>3788</b>
4		<b>Gascoyne Resources Ltd.</b> (ASX)	<b>Dalgaranga</b>	Resource development		19-Sep	DGRC509	8m @ 373.5g/t Au from 53m	↑ 1.0% <b>2988</b>
5		<b>AVZ Minerals Ltd.</b> (ASX)	<b>Manono</b>	Resource development		5-Sep	MO18DD035	286.75m @ 1.74% Li <sub>2</sub> O, 822ppm Sn from 54.55m	↑ 1.0% <b>2618</b>
6		<b>Resolute Mining Ltd.</b> (ASX)	<b>Syama</b>	Resource development		5-Jul	TARD619	5.0m @ 493.0g/t Au from 167.0m	↑ 4.0% <b>2465</b>
7		<b>BHP Group Plc</b> (LSE,ASX)	<b>EL 5941</b>	Exploration		27-Nov	AD23	425.7m @ 3.04% Cu, 0.59g/t Au, 6.03g/t Ag from 1063m	↑ 0.1% <b>2308</b>
8		<b>Adriatic Metals Plc</b> (ASX)	<b>Rupice</b>	Exploration		12-Jun	BR-2-18	64m @ 4.6g/t Au, 537g/t Ag, 0.9% Cu, 7.7% Pb, 10.8% Zn from 214m	↑ 53.8% <b>1665</b>
9		<b>First Au Ltd.</b> (ASX)	<b>Gimlet</b>	Exploration		9-Oct	18GAC063	4m @ 393g/t Au from 52m	↑ 26.1% <b>1572</b>
10		<b>Northern Star Resources Ltd.</b> (ASX)	<b>Jundee</b>	Resource development		20-Feb	GWGC0880	1.6m @ 957.5g/t Au from 147.1m	↓ -2.0% <b>1532</b>

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## TSX:

rank	country	company	project	status	commodity	date	hole	intersection	share price chg* (AuEq.)m**
1		<b>Fission Uranium Corp.</b> (TSX, OTCQX, FWB)	<b>Patterson Lake South</b>	Resource development		3-Jan	PLS17-MET-C	108.0m @ 8.46% U3O8 from 56.5m	↑ 1.2% <b>11334</b>
2		<b>Kirkland Lake Gold Ltd.</b> (TSX, ASX, NYSE)	<b>Fosterville</b>	Resource development		13-Dec	UDH2643A	6.40m @ 598g/t Au from 344.5m	↑ 3.7% <b>3830</b>
3		<b>NexGen Energy Ltd.</b> (TSX, OTCQX)	<b>Rook 1</b>	Resource development		17-Jan	AR-17-159C1	26.5m @ 10.60% U3O8 from 427.5m	↑ 3.5% <b>3412</b>
4		<b>K92 Mining Inc.</b> (TSX-V, OTCQB)	<b>Kainantu</b>	Resource development		25-Apr	KMDD0084	5.82m @ 486.78g/t Au, 6g/t Ag, 0.16% Cu from 48.30m	↑ 4.8% <b>2835</b>
5		<b>Osisko Mining Inc.</b> (TSX)	<b>Windfall</b>	Resource development		23-Oct	OSK-W-18-1725	2.7m @ 1026g/t Au from 283.3m	↑ 2.6% <b>2770</b>
6		<b>Aurion Resources Ltd.</b> (TSX-V)	<b>Risti</b>	Exploration		19-Sep	AM18042	2.90m @ 789.06g/t Au from 116.10m	↑ 0.5% <b>2288</b>
7		<b>Frontier Lithium Inc.</b> (TSX-V)	<b>PAK</b>	Resource development		16-Oct	PL-028-18	219.75m @ 2.07% Li2O from 62.25m	0.0% <b>2249</b>
8		<b>Erdene Resource Development Corp.</b> (TSX)	<b>Bayan Khundii</b>	Exploration		10-Jan	BKD-231	14m @ 158.3g/t Au from 193m	↑ 22.4% <b>2216</b>
9		<b>SolGold Plc</b> (LSE, TSX-V)	<b>Cascabel</b>	Resource development		13-Nov	CSD-18-067	1028m @ 0.71% Cu, 0.91g/t Au from 886m	↑ 1.6% <b>2097</b>
10		<b>TMAC Resources Inc.</b> (TSX)	<b>Hope Bay</b>	Resource development		14-Jun	TM50152	1.5m @ 1255.00g/t Au from 74.3m	↑ 9.3% <b>1883</b>

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Click [here](#) for a summary table for all published reports for this week



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## SERVICES ON QUOTATION

Please email us your project requirements. You will find our approach very flexible and accommodating. We aim to make the impossible possible—at affordable rates—whilst providing top-quality geologists and excellent outcomes. Throw us into a challenging environment, set us a demanding deadline, and let us do the work for you. Ask us for a reference on our services at any time.



**Disclaimer and Compliance Warning:**

The information in this weekly bulletin does not qualify as a Public Report as defined by clause 6 of the JORC Code (2012). It is not prepared for the purpose of informing investors or potential investors or their advisors, and is not published for or on behalf of any of the companies mentioned in this bulletin. RSC has no equity or other interest in any of the companies mentioned in this bulletin.

A full list with links to all individual Public Announcements for each company mentioned in this information bulletin is provided through <http://intel.rscmme.com>. RSC takes no responsibility for the compliance of those Public Reports, and it is up to each individual company to make sure that drilling intercepts are reported in a material and transparent manner in compliance with the relevant reporting codes for the respective jurisdiction. For ASX-listed companies, the relevant JORC Code (2012) clauses are 4, 18, 19, and 50. Investors or potential investors using the information in this bulletin are recommended to download the full reports either directly from the company's website or through the links in weekly lists provided by RSC.

Drill intercept grades from week 50 have been converted into AuEq using the following metal prices (USD): \$1248.25/oz Au, \$14.64/oz Ag, \$6,163.00/t Cu sourced from <https://www.quandl.com/collections/markets/commodities>, <https://commoprices.com>, <https://www.uxc.com>, <http://markets.businessinsider.com/commodities> or <http://markets.businessinsider.com/commodities/historical-prices/iron-ore-price>.

The formula used to convert drill intercept grades to gold equivalence using stated metal price is as follows:

$$AuEq(g/t) = \sum_{n=1}^z C_n(g/t) \times \frac{C_n(\$ / g)}{Au(\$ / g)}$$

Where z is the number of listed components (e.g. Au, Ag, Pb, Cu, Zn, Li<sub>2</sub>O, Sn, Co etc) and C<sub>n</sub> is the n<sup>th</sup> component in that list.

Gold has been chosen as the metal equivalent for all conversions as it is the most widely-used and best-understood benchmark to determine or appreciate the grade tenor of a drilling intercept.

Monthly and yearly intercept grades were converted to AuEq using metal prices from the week of the public announcement. To view previously used metal prices please see the RSC – Weekly Bulletin from the relevant week.

RSC has not investigated and is not aware of the detail of metallurgical recoveries used in the conversions for each drilling intercept mentioned in this bulletin. It is uncertain that all the elements included in the metal equivalents calculations have a reasonable potential to be recovered and sold. For many projects at the Exploration Results stage mentioned in this information bulletin, metallurgical recovery information may not be available or able to be estimated with reasonable confidence. The reader needs to use reasonable caution to avoid being misled in these instances.