

ASX ANNOUNCEMENT

13 January 2022

## Significant new gold target identified at Mt York, with anomalous rock chip samples of up to 4.6g/t Au

*New target located 500m south-east of cornerstone Old Faithful deposit represents another exciting new exploration opportunity outside of the existing 873,000oz Resource*

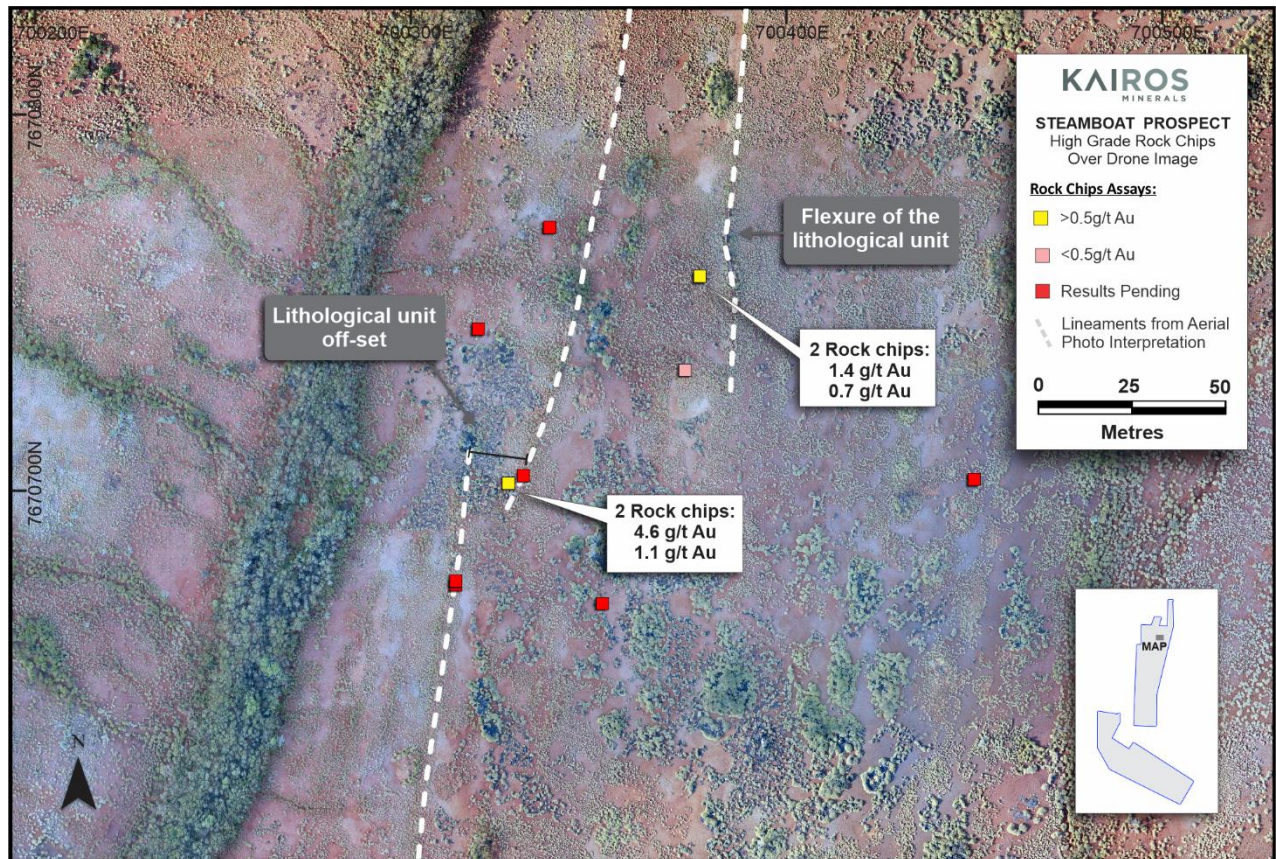
### Highlights

- **New high-priority target confirmed at the Steamboat prospect, located ~500m south-east of the Old Faithful deposit, with anomalous rock chip samples of up to 4.6g/t Au returned – minimal historical exploration undertaken in this area.**
- **Results received from only 175 of a total of 392 rock chip samples collected at Mt York during the 2021 field season.**
- **Drone survey and mapping completed for the Steamboat prospect, with drilling planned for the start of the 2022 field season.**
- **Heritage survey completed for the new target area with all approvals for drilling in place.**
- **Assay results received for five more holes drilled at the 873,500oz Mt York Project last year, with best new intercepts including:**
  - **80m @ 0.93g/t Au from 108m in KMYC183, including:**
    - **12m @ 2.73g/t Au from 108m, and**
    - **4m @ 6.16g/t Au from 108m, and**
    - **4m @ 2.37g/t Au from 172m, and**
    - **4m @ 2.12g/t Au from 184m.**

Kairos' Executive Chairman, Terry Topping, said: *"The discovery of an exciting new gold target outside of the current 873,500oz Mineral Resource inventory at Mt York is a great way to start the New Year. Given the proximity of the Steamboat prospect to the existing Old Faithful deposit and the strength of the surface rock chip samples and mapping, this is shaping up as a priority focus for our exploration activities at Mt York in 2022.*

*"The discovery of new zones with the potential to increase our resource base is an exciting development and we are looking forward to returning to this area with drilling during the 2022 field season. We have already completed an extensive drone survey and mapping for the new Steamboat prospect and heritage surveys have already been completed and approved.*

*"The slow turnaround of assay results remains an ongoing industry-wide frustration, and we are still awaiting assays from a significant number of holes drilled at Mt York last year. That said, we are continuing to see some very encouraging results which will be incorporated into a future resource upgrade and ongoing mining studies. We look forward to updating the market on numerous other upcoming gold and lithium exploration activities in the near future and reporting additional results from RC and aircore drilling completed last year."*



**Figure 1: Steamboat prospect drone survey image and rock chip sample location.**

Kairos Minerals Ltd (ASX: KAI; "Kairos" or "the Company") is pleased to advise that it has identified a significant new greenfields gold target located outside the current Mineral Resource base at its 100%-owned **873,500oz Mt York Gold Project** located in the Pilbara region of Western Australia.

The Company has received highly encouraging assay results received from rock chip samples collected at the newly-identified Steamboat prospect, with values up to **4.6g/t Au**.

In addition, the Company has received assay results from five more Reverse Circulation (RC) holes drilled last year at the Mt York Project. Assay results are pending for 23 drill holes.

The results from the rock chip sampling and drilling programs are described in more detail below.

## Steamboat Prospect

The first-stage geochemistry sampling program conducted by Kairos geologists and contractors identified a new target area, located approximately 500m south-east of the Old Faithful deposit, with anomalous rock chip samples of up to 1.1g/t Au coincident with an arsenic-in-soils anomaly trend (see ASX announcement 24 September 2021). The anomalous gold results were returned from brecciated cherts and BIFs.

The Company followed up the initial results with a drone survey, rock chip sampling and a heritage survey. Kairos has received initial results from the second-stage rock chip sampling program, with assays of up to 4.6g/t Au confirming and extending the target area. The high-resolution drone survey assisted the field mapping, and a digital terrain modelling (DTM) was generated (Figure 1). Critical geological features were observed from the drone survey and will assist with further mapping and drill-hole planning.

A heritage survey was conducted over the target area late last year in order to obtain access clearances for drilling.

The list of rock chip samples collected within this new target area is provided at the end of this announcement in Table 1.

### Mount York RC Drilling Program

Kairos has received assay results from five more RC drill holes completed at the Mt York Project. KMYC183 returned exceptional assay results and extended a historical thick intercept of 117.4m @ 1.97g/t Au some 50m down-dip (see Figure 3 for a cross-section). The results are from four-metre composite samples, with one sample returning 4m @ 6.16g/t Au from 108m.

Drill-hole KMYC187 returned a significant result of 28m @ 0.85g/t Au from 76m in “the Gap” area west of the historical Breccia Hill pit, where minimal historical drilling has been conducted. This result included a zone of 4m @ 2.22g/t Au from 100m.

Significant results from the last assays received are reported below:

- 80m @ 0.93g/t Au from 108m in KMYC183, including:
  - 12m @ 2.73g/t Au from 108m and **4m @ 6.16g/t Au from 108m**, including:
  - 4m @ 2.37g/t Au from 172m, and
  - 4m @ 2.12g/t Au from 184, and
  - 4m @ 0.98g/t Au from 184m.
- 4m @ 0.68g/t Au from 84m in KMYC184, and
  - 4m @ 0.56g/t Au from 116m, and
  - 4m @ 0.73g/t Au from 132m, and
  - 8m @ 2.06g/t Au from 172m, including
  - **4m @ 3.37g/t Au from 172m.**
- 56m @ 0.99g/t Au from 96m in KMYC186, including
  - **4m @ 3.38g/t Au from 108m**, and
  - 4m @ 2.61g/t Au from 148m.
- 28m @ 0.85g/t Au from 76m in KMYC187, including:
  - 4m @ 2.22g.t Au from 100m.
- 8m @ 1.31g/t Au from 96m in KMYC188, and
  - 8m @ 0.53g/t Au from 128m

Assay results are pending for 23 drill holes.

All of the assay results received to date are from four-metre composite samples. The single-metre samples are being collected, according to the results obtained from the composite samples, and submitted to Intertek Laboratories in Perth for gold and multi-element analysis.

The list of drill-holes and significant intercepts is provided at the end of this announcement in Table 2.



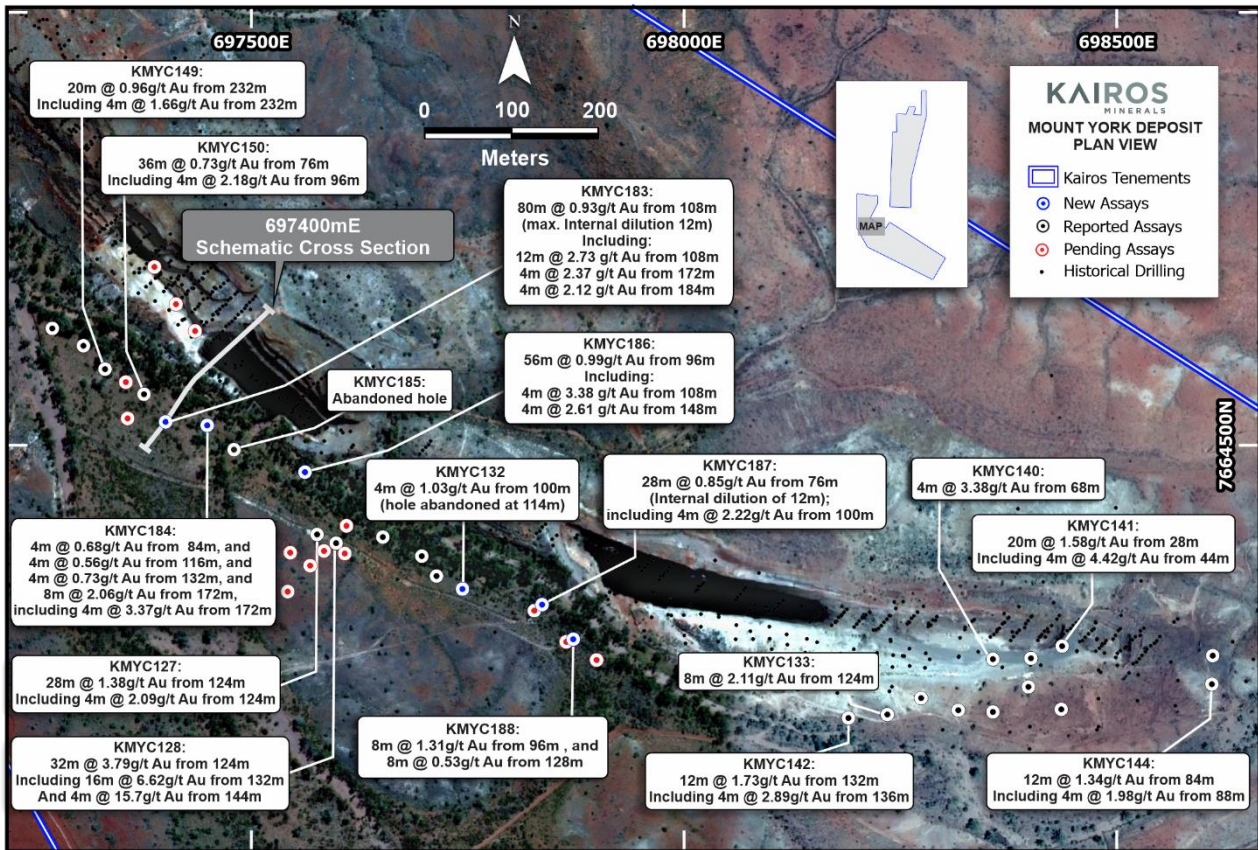
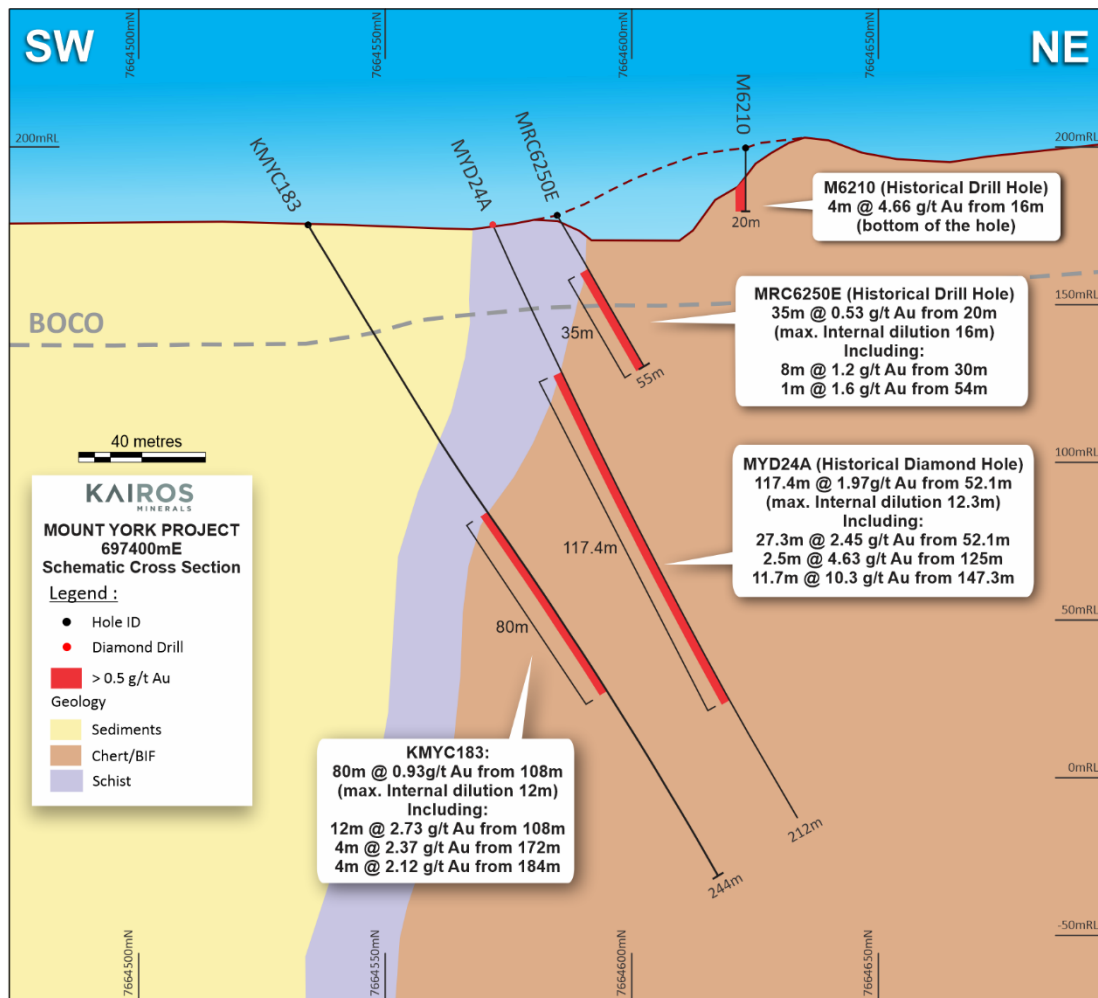


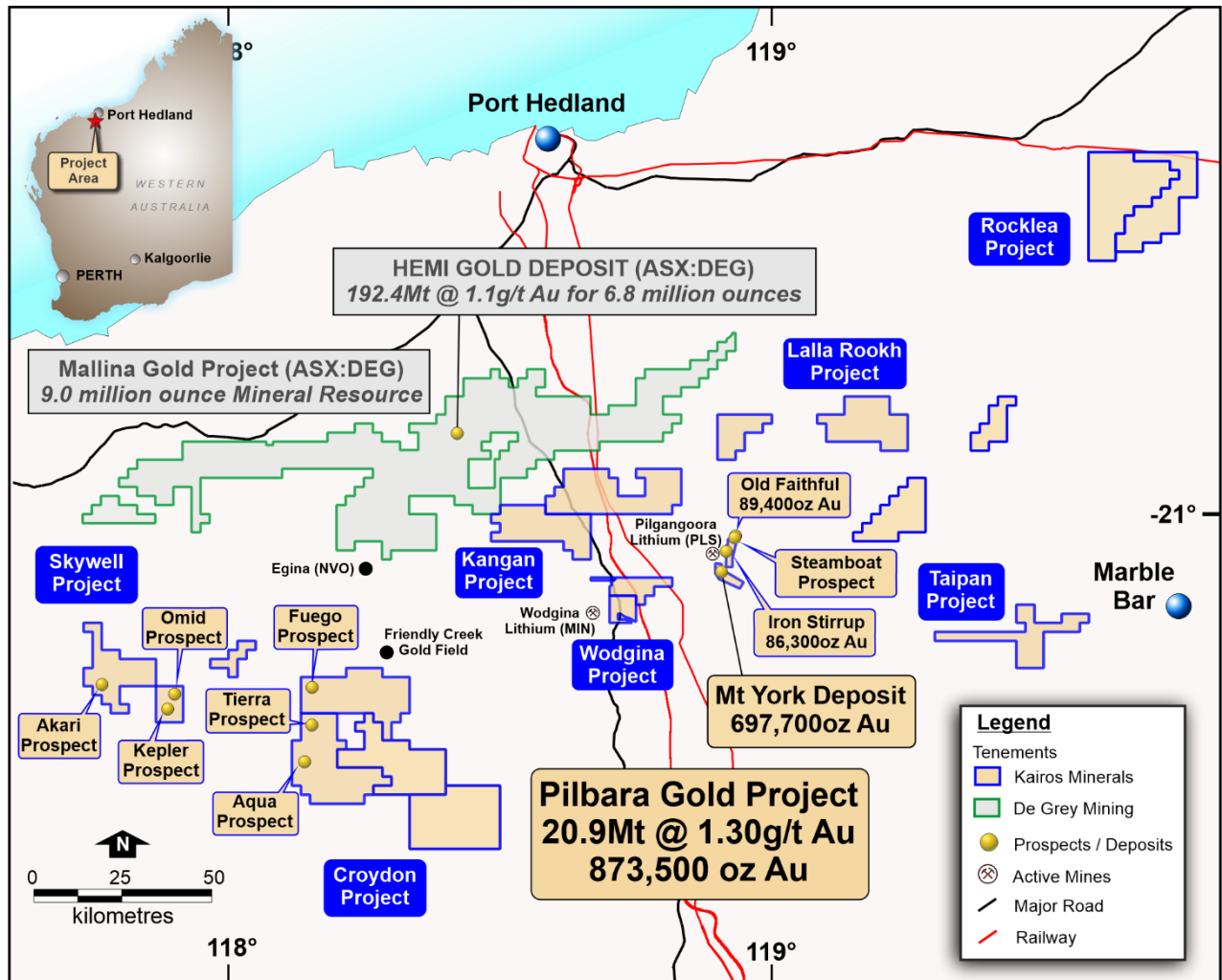
Figure 2: Plan view of the area showing the drill holes with the latest assay results.



**Figure 3: Schematic cross-section with the recent assay results from hole KMYC183.**

## Next Steps

- Further assay results from the Mount York RC drilling.
- Results for the in-fill AC drilling program at the Kangan Project.
- Gold and lithium target generation from previous exploration.
- Mining studies for the Mt York Project.
- Analysis of regional geochemistry sampling from Mt York, Wodgina, Kangan and Skywell Projects.
- Additional heritage surveys at the Kangan and Skywell Projects.
- Gold and lithium exploration at Roe Hills.



**Figure 4: Pilbara Gold Project, WA.**

With the authority of the Board.

## **About Kairos Minerals**

Kairos Minerals (ASX: KAI) is a diversified West Australian-based exploration company which is focused on the exploration and development of two key project hubs located in WA's premier mining districts.

The Company's 100%-owned Pilbara Gold-Project has its central "hub" located ~100km south of Port Hedland in the world-class Pilgangoora district immediately adjacent to the major lithium-tantalum projects owned by Pilbara Minerals, which is currently in production.

Since acquiring the project in early 2016, Kairos has established a JORC Indicated 8.56Mt at 1.3 g/t for 366,000oz and Inferred 12.36Mt at 1.28 g/t for 507,000oz for a Total Mineral Resource of 20.93Mt @ 1.3g/t Au for 873,500oz (ASX announcement, 4 March 2020). The Project encompasses the historical Lynas Find gold project, which produced over 125,000oz of gold between 1994 and 1998.

Kairos's 100%-owned Roe Hills Project, located 120km east of Kalgoorlie in WA's Eastern Goldfields, comprises an extensive tenement portfolio where the Company's recent exploration work has confirmed the potential for significant discoveries of high-grade gold, nickel, cobalt and lithium mineralisation. Kairos' tenure adjoins the emerging Lake Roe gold discovery, owned by Breaker Resources (ASX: BRB).

In the Pilbara, Kairos also holds 2,026 square kilometres of tenure (granted and applications) which is highly prospective for gold and lithium discoveries.

Kairos has been well recognised for its industry leading technical team that includes its Chairman Terry Topping (Taipan Resources NL, Cauldron Energy Ltd), Technical Director Neil Hutchison (Poseidon Nickel, Jubilee Mines) and consulting specialists.

**For further information, please contact:**

**Investors:**

Mr Terry Topping  
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Kairos Minerals Limited

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**COMPETENT PERSON STATEMENT:**

*Competent Person: The information in this report that relates to Exploration Results or Mineral Resources is based on information compiled and reviewed by Mr Terry Topping, who is a Director of Kairos Minerals Ltd and who is also a Member of AusIMM. Mr Topping has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves.' (the JORC Code 2012). Mr Topping has consented to the inclusion in the report of the matters based on their information in the form and context in which it appears.*

*The Australian Securities Exchange has not reviewed and does not accept responsibility for the accuracy or adequacy of this release.*

**Table 1: List of rock chip samples from the new target area at Mt York Project.**

SAMPLEID	GDA_East	GDA_Nort	Au_ppm	Ag_ppm	As_ppm	Sampling_Notes
MYR089	700358	7670831	0.024	0.03	<b>184</b>	Dark grey BIF
MYR101	700326	7670702	<b>1.102</b>	0.74	31	Quartz
MYR102	700326	7670702	0.014	0.08	46	Green chert
MYR103	700326	7670702	0.075	0.19	<b>178</b>	breccia
MYR167	700326	7670702	0.009	0.14	37	Green chert
MYR168	700326	7670702	0.376	0.06	84	Green chert
MYR169	700326	7670702	<b>4.652</b>	<b>2.34</b>	24	Green chert
MYR170	700377	7670757	0.006	0.18	90	BIF
MYR171	700377	7670757	<b>1.484</b>	<b>1.07</b>	75	BIF
MYR172	700377	7670757	<b>0.726</b>	0.47	64	BIF
MYR173	700373	7670732	0.051	0.1	<b>105</b>	oxidized BIF/chert
MYR174	700373	7670732	0.007	0.23	<b>111</b>	oxidized BIF/chert
MYR175	700373	7670732	0.054	0.07	84	oxidized BIF/chert
MYR250	700318	7670743	Assays Pending			ferruginous gossan patch
MYR251	700330	7670704	Assays Pending			green/grey chert
MYR252	700330	7670704	Assays Pending			green/grey chert
MYR253	700351	7670670	Assays Pending			Gossan
MYR254	700351	7670670	Assays Pending			Gossan
MYR255	700312	7670676	Assays Pending			Gossan
MYR256	700312	7670675	Assays Pending			Gossan
MYR257	700337	7670770	Assays Pending			ferruginous brecciated quartzite
MYR258	700341	7670834	Assays Pending			Gossan
MYR349	700450	7670703	Assays Pending			Dark grey chert



**Table 2: List of drilled holes and significant intercepts completed at Mt York Project**

Prospect	Hole	MGAE	MGAN	RL	Dip	Az	Total Depth (m)	From (m)	Length (m)	Au (ppm)	
Mt York	KMYC111A	696959	7665422	180	-60	45	60			Pending Assays	
Mt York	KMYC121	696996	7665337	180	-60	45	80			Pending Assays	
Mt York	KMYC122	697055	7665066	179.1	-60	45	114			Pending Assays	
Mt York	KMYC123	697074	7665094	182	-60	45	100			NSA	
Mt York	KMYC124	697104	7665122	182	-60	45	70			NSA	
Mt York	KMYC125	697110	7664976	190	-60	40	200	96	16	0.56	
Mt York	KMYC126	697003	7665206	180	-60	70	192	156	4	1.25	
Mt York	KMYC127	697576	7664397	177	-60	45	204	124	36	1.18	
								<i>including</i>	124	<b>4</b>	<b>2.09</b>
									188	4	0.50
Mt York	KMYC128	697598	7664387	177.3	-60	45	220	<b>124</b>	<b>32</b>	<b>3.79</b>	
								<i>including</i>	132	<b>16</b>	<b>6.62</b>
								<i>including</i>	144	<b>4</b>	<b>15.7</b>
								<i>including</i>	200	4	0.66
Mt York	KMYC129	697652	7664394	175	-60	40	204	92	4	0.6	
									136	4	1.17
									156	4	1.63
Mt York	KMYC130	697697	7664372	176	-60	45	132	104	8	1.45	
								<i>including</i>	108	<b>4</b>	<b>2.21</b>
									128	4	0.68
Mt York	KMYC131	697714	7664349	176	-60	40	198	104	8	1.06	
								<i>including</i>	108	4	1.62
Mt York	KMYC132	697744	7664334	177	-60	40	114	100	4	1.03	
Mt York	KMYC133	698235	7664189	178	-60	0	180	124	<b>8</b>	<b>2.10</b>	
Mt York	KMYC134	698274	7664208	181	-60	0	120	116	<b>4</b>	1.01	
Mt York	KMYC135	698317	7664194	180	-55	0	160	124	8	1.18	
Mt York	KMYC136	698357	7664192	181.3	-55	0	148	<b>124</b>	<b>4</b>	<b>2.14</b>	
Mt York	KMYC137	698436	7664195	182	-55	0	142	100	4	0.81	
									112	4	1.57
Mt York	KMYC138	698401	7664254	187	-60	0	100	28	4	0.58	
								<i>including</i>	44	8	1.04
									48	4	1.26
									60	4	0.66
Mt York	KMYC139	698398	7664221	186	-60	0	118	96	<b>4</b>	<b>2.51</b>	
Mt York	KMYC140	698357	7664253	187	-60	0	94	68	<b>4</b>	<b>3.38</b>	
Mt York	KMYC141	698437	7664268	192	-60	0	80	16	4	0.76	
									28	<b>20</b>	<b>1.58</b>
								<i>including</i>	44	<b>4</b>	<b>4.42</b>
Mt York	KMYC142	698190	7664185	177	-60	0	190	132	12	1.72	
								<i>including</i>	136	<b>4</b>	<b>2.90</b>
Mt York	KMYC143	698611	7664257	182.3	-55	0	88	8	4	1.12	
									40	4	0.52

Prospect	Hole	MGAE	MGAN	RL	Dip	Az	Total Depth (m)	From (m)	Length (m)	Au (ppm)	
Mt York	KMYC144	698610	7664224	180	-60	0	118	84	12	1.34	
Mt York	KMYC147	697270	7664635	176	-60	45	262	120	4	0.65	
									156	4	0.68
									184	4	1.09
									196	<b>8</b>	<b>1.73</b>
									196	4	1.79
									220	4	1.43
Mt York	KMYC148	697306	7664615	175	-60	45	244	120	4	1.21	
									132	4	0.54
									184	4	0.57
									224	4	0.71
Mt York	KMYC149	697331	7664588	175.6	-60	45	280	192	4	1.36	
									216	4	0.69
									232	20	0.97
									232	4	1.66
Mt York	KMYC150	697376	7664559	175	-60	45	219	44	4	0.51	
									76	12	0.70
									84	4	1.27
									96	16	0.91
									96	<b>4</b>	<b>2.18</b>
									152	4	1.55
Mount York	KMYC183	697401	7664527	177	-60	45	244	108	<b>80</b>	<b>0.93</b>	
									108	<b>12</b>	<b>2.73</b>
									108	<b>4</b>	<b>6.16</b>
									172	<b>4</b>	<b>2.37</b>
									184	<b>4</b>	<b>2.12</b>
									220	4	0.98
Mount York	KMYC184	697449	7664523	175	-60	45	196	84	4	0.68	
									116	4	0.56
									132	4	0.73
									172	<b>8</b>	<b>2.06</b>
									172	<b>4</b>	<b>3.37</b>
Mount York	KMYC185	697480	7664495	174	-60	45	22			Abandoned	
Mount York	KMYC186	697562	7664469	175	-60	45	172	72	4	0.58	
									96	<b>56</b>	<b>0.99</b>
									108	<b>4</b>	<b>3.38</b>
									148	<b>4</b>	<b>2.61</b>
Mount York	KMYC187	697836	7664316	176	-60	45	196	76	28	0.85	
									100	<b>4</b>	<b>2.22</b>
Mount York	KMYC188	697872	7664276	175	-60	45	196	96	8	1.31	
									128	8	0.53
Mount York	KMYC189	697827	7664309	181	-60	0	208			Pending Assays	
Mount York	KMYC190	697864	7664273	180	-60	0	214			Pending Assays	

Prospect	Hole	MGAE	MGAN	RL	Dip	Az	Total Depth (m)	From (m)	Length (m)	Au (ppm)
Mount York	KMYC191	697899	7664252	179	-60	0	196			Pending Assays
Mount York	KMYC192	697435	7664632	218	-60	45	58			Pending Assays
Mount York	KMYC193	697413	7664663	215	-60	45	160			Pending Assays
Mount York	KMYC194	697388	7664706	203	-60	45	148			Pending Assays
Mount York	KMYC195	697608	7664375	177	-60	45	240			Pending Assays
Mount York	KMYC196	697584	7664378	176	-60	45	260			Pending Assays
Mount York	KMYC197	697568	7664361	197	-60	45	256			Pending Assays
Mount York	KMYC198	697610	7664407	173	-55	45	202			Pending Assays
Mount York	KMYC199	697542	7664331	173	-60	45	310			Pending Assays
Mount York	KMYC200	697545	7664376	175	-60	45	292			Pending Assays
Mount York	KMYC204	697357	7664531	175	-60	45	274			Pending Assays
Mount York	KMYC205	697355	7664573	175	-60	45	280			Pending Assays
Green Creek	KMYC112	699410	7670920	202	-60	90	80			NSA
Green Creek	KMYC113	699440	7670920	200	-60	90	80			NSA
Green Creek	KMYC114	699435	7671000	203	-60	90	80			NSA
Green Creek	KMYC115	699446	7671040	204	-60	90	80			NSA
Green Creek	KMYC167	699411	7671001	205	-60	90	80	16	4	2.51

Iron Stirrup North	KMYC116	699440	7670402	193	-60	105	100			NSA
Iron Stirrup North	KMYC117	699480	7670395	195	-60	105	112			NSA
Iron Stirrup North	KMYC118	699535	7670257	195	-60	105	124			Pending Assays
Iron Stirrup North	KMYC119	699490	7670268	192	-60	105	124			Pending Assays
Iron Stirrup North	KMYC120	699715	7670194	202	-60	285	172			Pending Assays
Iron Stirrup North	KMYC168	699560	7670375	199	-60	285	120			NSA

Old Faithful	KMYC151	700113	7671617	217	-60	270	99			NSA
Old Faithful	KMYC152	700191	7671754	226	-60	270	105	36	8	0.58
Old Faithful	KMYC153	700316	7671717	226	-60	270	180	128	8	1.19
							<i>including</i>	128	4	1.71
								172	8	1.26
							<i>including</i>	172	4	1.77
Old Faithful	KMYC154	700341	7671714	227	-60	270	100	16	8	1.91
							<i>including</i>	16	4	2.58
Old Faithful	KMYC155	700394	7671707	229	-60	270	180	24	4	0.77
								172	4	0.51

Prospect	Hole	MGAE	MGAN	RL	Dip	Az	Total Depth (m)	From (m)	Length (m)	Au (ppm)
Old Faithful	KMYC156	700226	7671606	221	-60	270	160	72	28	1.43
							<i>including</i>	76	4	1.13
							<i>including</i>	80	4	1.63
							<i>including</i>	84	4	<b>2.37</b>
							<i>including</i>	88	4	1.67
<i>including</i>	92	4	1.65							
Old Faithful	KMYC157	700272	7671605	221	-60	270	119			NSA
Old Faithful	KMYC158	700128	7671607	227	-60	270	120			NSA
Old Faithful	KMYC159	700181	7671360	215.5	-60	270	240	44	8	0.72
								76	4	0.54
								176	4	0.70
Old Faithful	KMYC160	700000	7671166	208	-60	270	140	16	4	0.58
Old Faithful	KMYC161	700048	7671166	209	-60	270	160	16	4	0.57
Old Faithful	KMYC162	700076	7671165	211	-60	270	180	104	8	0.58
Old Faithful	KMYC163	700102	7671168	214	-60	270	180	40	36	0.58
							<i>including</i>	72	4	1.47
Old Faithful	KMYC164	700043	7671116	212	-60	270	120			NSA
Old Faithful	KMYC165	700143	7671160	218	-60	270	180			NSA
Old Faithful	KMYC166	700083	7671113	216	-60	270	140	12	48	0.65
							<i>including</i>	12	4	1.22
Iron Stirrup	KMYC169	699264	7669558	215	-60	100	80	72	4	<b>2.19</b>
Iron Stirrup	KMYC170	699259	7669502	224	-55	90	120			NSA
Iron Stirrup	KMYC171	699242	7669497	224	-55	90	150			NSA
Iron Stirrup	KMYC172	699112	7669319	200	-55	110	273			NSA
Iron Stirrup	KMYC201	699135	7669218	204	-50	90	238	28	16	0.86
							<i>including</i>	28	4	1.17
								184	4	0.74
Iron Stirrup	KMYC202	699423	7668782	215	-60	90	238			NSA
Iron Stirrup	KMYC203	699401	7668730	209	-60	90	238			NSA
Zakanaka	KMYC173	698008	7666281	195	-60	270	207			NSA
Zakanaka	KMYC174	697973	7666447	198	-60	270	260			NSA
Zakanaka	KMYC175	697928	7666454	198	-60	270	197			NSA
Zakanaka	KMYC176	697971	7666284	196	-60	270	120	36	4	<b>2.61</b>
							<i>including</i>	68	8	1.27
								72	4	1.74
Zakanaka	KMYC177	698117	7666219	194	-60	45	60	4	4	0.58
Zakanaka	KMYC178	698105	7666209	194	-60	45	60			NSA
Zakanaka	KMYC179	698098	7666199	194	-60	45	69	52	8	0.60
Zakanaka	KMYC180	697798	7666401	195	-60	45	150			NSA
Zakanaka	KMYC181	698046	7666007	190	-60	45	58			NSA
Zakanaka	KMYC182	698087	7666191	190	-60	45	112			NSA



Prospect	Hole	MGAE	MGAN	RL	Dip	Az	Total Depth (m)	From (m)	Length (m)	Au (ppm)
Batavia	KMYC145	701578	7661555	204	-60	270	130			Pending Assays
Batavia	KMYC146	701480	7661553	204	-60	90	118			Pending Assays

*Selected intercepts at 0.5g/t Au lower cut, 4m maximum internal waste (except for KMYC163 – 8m; KMYC166, KMYC183, KMYC187 and KMYC188 – 12m).*

*NSA: No Significant Assays.*

## Appendix 1 – Kairos Minerals – Pilbara Gold Project

### JORC Code, 2012 Edition – Table 1

#### Section 1 Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
<b>Sampling techniques</b>	<ul style="list-style-type: none"> <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> <li>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</li> <li>Aspects of the determination of mineralisation that are Material to the Public Report. 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>	<ul style="list-style-type: none"> <li>The rock chip and soil samples are submitted for Aqua Regia (AR25/MS) for gold and multi-elements analysis.</li> <li>Rock chip samples are collected from outcrop and areas of interest</li> <li>In Mount York Project the samples from RC drilling were split on a 1 metre sample interval at the rig cyclone.</li> <li>Samples from this initial drilling program were collected on four meters composites.</li> <li>Additional individual single meters samples will be collected if significant results return from the four meters composites.</li> <li>All samples were delivered by Kairos personnel to RGR Road Haulage in Port Hedland for transport to Intertek Minerals Laboratory in Perth WA for final analysis.</li> <li>All samples from RC drilling are submitted for Four Acid Multi-Element Analysis (4A/OE33), Fire Assay for Gold (FA/ICP-OES).</li> </ul>
<b>Drilling techniques</b>	<ul style="list-style-type: none"> <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, face-sampling bit, or other type, whether core is oriented and if so, by what method, etc).</li> </ul>	<ul style="list-style-type: none"> <li>Reverse Circulation drilling is being carried out by Orlando Drilling company using a track-mounted rig. In general, the material is recovered as pulverised and rock chip samples.</li> <li>All the holes are surveyed by the drilling supervisor/senior driller at regular intervals downhole, approximately 10 meters, using a Gyroscope survey instrument.</li> </ul>
<b>Drill sample recovery</b>	<ul style="list-style-type: none"> <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> <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>	<ul style="list-style-type: none"> <li>RC samples were logged in detail at the drill site by supervising geologists and recorded in the Company's database.</li> <li>Overall recoveries were excellent and there were no significant sample recovery problems.</li> <li>Sample depths are continually checked against the rod string depth during the drilling process by the senior driller.</li> </ul>
<b>Logging</b>	<ul style="list-style-type: none"> <li>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.</li> <li>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</li> <li>The total length and percentage of the relevant intersections logged.</li> </ul>	<ul style="list-style-type: none"> <li>The information collected about soil and rock samples includes general geological observations, location and rock type.</li> <li>Detailed geological logging of the entirety of each hole by Kairos geologists is carried out on the RC chips and recorded as a qualitative description of colour, lithological type, grain size, structures, minerals, alteration, and various other features.</li> <li>Same geological logging workflow was executed in Kangan Project samples along the field campaign.</li> <li>Representative material was sieved and collected as 1m individual samples in number-coded plastic chip trays and stored at the Company's site storage facility in Perth.</li> <li>Photography of chips is not routinely done.</li> <li>Detailed petrological studies are planned for selected samples to assist in ongoing evaluation.</li> </ul>

Criteria	JORC Code explanation	Commentary
<b>Sub-sampling techniques and sample preparation</b>	<ul style="list-style-type: none"> <li>If core, whether cut or sawn and whether quarter, half or all cores taken.</li> <li>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</li> <li>For all sample types, the nature, quality, and appropriateness of the sample preparation technique.</li> <li>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</li> <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> <li>Whether sample sizes are appropriate to the grain size of the material being sampled.</li> </ul>	<ul style="list-style-type: none"> <li>Rock chip samples are prepared and analysed by independent certified laboratory, Intertek Genalysis laboratories in Perth. The samples are dried, crushed and pulverised to 95% passing 75um prior to gold and multi-element analysis by AR25/MS method.</li> <li>Most RC samples were dry. Minor water ingress occurred during rod/bit changes however samples were generally dry once active drilling recommenced.</li> <li>Samples were collected at 1m intervals via on-board cone splitters then laid out on the ground in the case of RC work collected in large, numbered calico bags.</li> <li>Sample quality was ensured by monitoring sample volume and by regularly cleaning the rig cyclone &amp; sample splitters (RC).</li> <li>Sampling sheets were prepared and checked by Kairos' site geologists and field technicians to ensure correct sample representation.</li> <li>In RC drilling QAQC samples are included at the rates 1:25 as certified reference material (standard). Duplicate samples were collected, and blanks were also included.</li> <li>The QAQC samples will be analysed, and the results compared with the original sample to provide an assessment of the sampling procedures and laboratory results.</li> </ul>
<b>Quality of assay data and laboratory tests</b>	<ul style="list-style-type: none"> <li>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</li> <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> <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>	<ul style="list-style-type: none"> <li>The rock chip samples are submitted to independent certified laboratory, Intertek Genalysis in Perth for sample preparation and analysis for gold and multi-element analysis by AR25/MS method for the rock chip samples.</li> <li>AR_25: Aqua-Regia digest. Analysed by Inductively Coupled Plasma Mass Spectrometry.</li> <li>Standards, blanks and duplicates have been used by the laboratory for QAQC.</li> <li>Kairos RC drilling samples are submitted to Intertek laboratory in Perth for Four Acid Multi-Element Analysis ICP-OES (4A/OE33). The gold analysis will be carried out via the FA 25/OE or MS technique being Fire Assay with 25g lead collection fire assay in new pots, analysed by Inductively Coupled Plasma Mass Spectrometry.</li> <li>Fire Assay is an industry-standard for gold, and it is considered appropriate.</li> <li>Certified Reference Materials (CRM or standards) are inserted every 25th sample to assess the assaying accuracy of the external laboratories.</li> <li>No laboratory audits were undertaken.</li> </ul>
<b>Verification of sampling and assaying</b>	<ul style="list-style-type: none"> <li>The verification of significant intersections by either independent or alternative company personnel.</li> <li>The use of twinned holes.</li> <li>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</li> <li>Discuss any adjustment to assay data.</li> </ul>	<ul style="list-style-type: none"> <li>Primary data (geological) was collected using previously defined standard codes and the information uploaded in Excel files on laptop computers by Senior Supervising Geologists.</li> <li>No twin holes were drilled.</li> <li>All data is received and stored securely in digital format in the Company's database.</li> <li>Final data is rigorously interpreted by Kairos' geoscientific personnel.</li> <li>All RC holes were surveyed down-hole with north-seeking gyroscopic survey instruments by the supervising/senior driller.</li> </ul>
<b>Location of data points</b>	<ul style="list-style-type: none"> <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 style="list-style-type: none"> <li>Kairos rock chip samples were surveyed by handheld GPS with an accuracy of +/- 5m.</li> <li>All location data are in MGA94 Zone 50 (GDA94).</li> </ul>

Criteria	JORC Code explanation	Commentary
	<ul style="list-style-type: none"> <li>• <i>Specification of the grid system used.</i></li> <li>• <i>Quality and adequacy of topographic control.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Kairos collars surveyed by handheld GPS with an accuracy of +/- 5m.</li> <li>• All holes are in MGA94 Zone 50 (GDA94).</li> </ul>
<b>Data spacing and distribution</b>	<ul style="list-style-type: none"> <li>• <i>Data spacing for reporting of Exploration Results.</i></li> <li>• <i>Whether the data spacing, and 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.</i></li> <li>• <i>Whether sample compositing has been applied.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Minimal sample spacing for assay samples is 1m and maximum composite sample spacing is 4m.</li> <li>• In RC drilling at Mount York Project, the hole spacing varies according to the target and geological setting along section lines.</li> </ul>
<b>Orientation of data in relation to geological structure</b>	<ul style="list-style-type: none"> <li>• <i>Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.</i></li> <li>• <i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>• Most RC holes are drilled at -60 deg to provide true width intersections of the targeted horizon.</li> <li>• Holes are designed to intersect the geological contacts/targets as close to perpendicular as possible in order to provide approximate true width intercepts.</li> </ul>
<b>Sample security</b>	<ul style="list-style-type: none"> <li>• <i>The measures taken to ensure sample security.</i></li> </ul>	<ul style="list-style-type: none"> <li>• The sample chain of custody is managed by Kairos.</li> <li>• All samples were collected in the field at the project site in number-coded calico bags/secure labelled poly weave sacks by Kairos' geological and field personnel.</li> <li>• All samples were delivered directly to the responsible laboratory or associated carrier by Kairos personnel before being transported to the laboratory in Perth WA for final analysis.</li> </ul>
<b>Audits or reviews</b>	<ul style="list-style-type: none"> <li>• <i>The results of any audits or reviews of sampling techniques and data.</i></li> </ul>	<ul style="list-style-type: none"> <li>• No audits have been completed.</li> </ul>



## Section 2 Reporting of Exploration Results

Criteria	JORC Code explanation	Commentary
<b>Mineral tenement and land tenure status</b>	<ul style="list-style-type: none"> <li>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.</li> <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 style="list-style-type: none"> <li>Kairos Minerals owns the Tenements 100%.</li> <li>The Mount York Project has eleven granted Prospecting Licenses 45/2987 to 2989 and 45/2991 to 45/2998.</li> <li>Kairos is not aware of any existing impediments nor of any potential impediments which may impact ongoing exploration and development activities at the project site.</li> </ul>
<b>Exploration done by other parties</b>	<ul style="list-style-type: none"> <li>Acknowledgment and appraisal of exploration by other parties.</li> </ul>	<ul style="list-style-type: none"> <li>In Mount York Project significant historical gold exploration including surface geochemical sampling, airborne and ground electromagnetic surveys, RAB, AC, RC, and DD drilling was already acknowledged in previous ASX announcements.</li> </ul>
<b>Geology</b>	<ul style="list-style-type: none"> <li>Deposit type, geological setting, and style of mineralisation.</li> </ul>	<ul style="list-style-type: none"> <li>Mount York Project is in the Strelley greenstone belt of Pilbara Craton. The local style indicates that the gold mineralisation is hosted mainly by the banded iron formation associated with quartz-veins and breccias.</li> </ul>
<b>Drill hole Information</b>	<ul style="list-style-type: none"> <li>A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:             <ul style="list-style-type: none"> <li>easting and northing of the drill hole collar.</li> <li>elevation or RL (Reduced Level - elevation above sea level in metres) of the drill hole collar</li> <li>dip and azimuth of the hole</li> <li>down hole length and interception depth</li> <li>hole length.</li> </ul> </li> <li>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.</li> </ul>	<ul style="list-style-type: none"> <li>The coordinates and other attributes of the drill holes relevant to the work performed at Mt York Project is included in Table 2 at the end of the release.</li> </ul>

Criteria	JORC Code explanation	Commentary
<b>Data aggregation methods</b>	<ul style="list-style-type: none"> <li><i>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.</i></li> <li><i>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.</i></li> <li><i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i></li> </ul>	<ul style="list-style-type: none"> <li>The result from the Mount York drilling program was reported with 0.5g/t cut-off for Au. With a maximum internal dilution of 12m.</li> </ul>
<b>Relationship between mineralisation widths and intercept lengths</b>	<ul style="list-style-type: none"> <li><i>These relationships are particularly important in the reporting of Exploration Results.</i></li> <li><i>If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.</i></li> <li><i>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 known').</i></li> </ul>	<ul style="list-style-type: none"> <li>All intercepts reported are measured in down-hole metres.</li> <li>All holes are oriented to provide intersections that are orthogonal to the respective targeted horizon.</li> </ul>
<b>Diagrams</b>	<ul style="list-style-type: none"> <li><i>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.</i></li> </ul>	<ul style="list-style-type: none"> <li>Relevant diagrams have been reported in this document.</li> </ul>
<b>Balanced reporting</b>	<ul style="list-style-type: none"> <li><i>Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced avoiding misleading reporting of Exploration Results.</i></li> </ul>	<ul style="list-style-type: none"> <li>All relevant results for this stage have been reported.</li> </ul>
<b>Other substantive</b>	<ul style="list-style-type: none"> <li><i>Other exploration data, if meaningful and material, should be reported including</i></li> </ul>	<ul style="list-style-type: none"> <li>All relevant and meaningful data has been reported.</li> </ul>

Criteria	JORC Code explanation	Commentary
<b>Exploration data</b>	<ul style="list-style-type: none"> <li><i>(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.</i></li> </ul>	<ul style="list-style-type: none"> <li>The qualitative analysis relies on <i>in situ</i> geological observations and correlation with local and regional previous results.</li> </ul>
<b>Further work</b>	<ul style="list-style-type: none"> <li><i>The nature and scale of planned further work (e.g., tests for lateral extensions or depth extensions or large-scale step-out drilling).</i></li> <li><i>Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.</i></li> </ul>	<ul style="list-style-type: none"> <li>Further assay results from the Mount York RC drilling.</li> <li>Results for the in-fill AC drilling program at the Kangan Project.</li> <li>Mining studies for the Mt York Project.</li> <li>Geochemistry sampling results from Mt York, Wodgina, Kangan and Skywell Projects.</li> <li>Additional heritage surveys at the Kangan and Skywell Projects.</li> </ul>