

17 January 2025

**Simberi Oxide Discovery and Drilling Update**

We refer to the '*Simberi Oxide Discovery and Drilling Update*' announcement dated 13 January 2025 (**Announcement**).

We have updated Figures 2 and 3 and included additional Tables 2 and 3 in the attached amended ASX release, to provide further location information (easting, northing, depth at which samples were taken) for the surface trenching. All other details remain the same.

Yours sincerely



**Kylie Panckhurst**  
Company Secretary

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13 January 2025

## New Oxide Discovery at Pigibo North Update on Exploration / Sterilisation Drilling

### Highlights

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- A new oxide discovery has been made between Pigibo North and Southwest Sorowar pits with favourable intercepts from surface trenching and from near surface results from two of the sterilisation focused diamond drill holes at Pigibo North.
- Significant trench intercepts at the new oxide discovery between Pigibo North and Southwest Sorowar include:
  - **SIMTR1054: 30 m @ 1.3 g/t Au,**
  - **SIMTR1055: 40 m @ 2.0 g/t Au,**
  - **SIMTR1056: 20 m @ 0.9 g/t Au, and**
  - **SIMTR1059: 25 m @ 2.1 g/t Au.**
- Significant near-surface diamond drill intercepts from the sulphides sterilisation drilling at Pigibo North and southwest Sorowar that forms part of the same new discovery include:
  - **SDH585: 28 m @ 1.0 g/t Au from 0 m, and**
  - **SDH595: 24 m @ 1.4 g/t Au from 0 m.**
- Further excavator trenching and limited shallow diamond drilling has been completed with assay results due in Q3 FY25. This new oxide discovery is being fast-tracked with grade control drilling commencing in January 2025 to test a total area of approximately 250 metres long x 80 metres wide.
- The FY25 exploration and sterilisation campaign continues to progress ahead of schedule with assay results already received for five of the exploration / sterilisation drill holes at Pigibo North and six of the resource definition drill holes at Sorowar – Pigiput Trend.

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St Barbara Limited (“**St Barbara**” or the “**Company**”) (ASX: SBM) is pleased to announce that the Pigibo North sterilisation drilling campaign has resulted in a new oxide discovery between Pigibo North and southwest Sorowar. Observation of interesting geology during access track construction led to follow up trenches being completed to test for mineralisation at surface.

St Barbara Managing Director and CEO Andrew Strelein said:

*“The identification of this new oxide mineralisation between Pigibo North and Sorowar is a real boost for the current Simberi oxide operations. These significant results from trenching and the near surface drilling results are now being followed up with grade control drilling with the objective of commencing mining in Q3.”*

The trench intercepts at this new oxide discovery between Pigibo North and southwest Sorowar included **SIMTR1054: 30 m @ 1.3 g/t Au, SIMTR1055: 40 m @ 2.0 g/t Au, SIMTR1056: 20 m @ 0.9 g/t Au, and SIMTR1059: 25 m @ 2.1 g/t Au.** Encouraging intercepts from surface in sterilisation drilling at the new oxide discovery between Pigibo North and Southwest Sorowar included **SDH585: 28 m @ 1.0 g/t Au from 0 m, and SDH595: 24 m @ 1.4 g/t Au from 0 m.**

The Company is also pleased to announce the completion of an additional 20 diamond drill holes during Q2 FY25 from the proposed 62 hole FY25 sulphide drilling program for 3,391.7 m. Assay results have now also been returned for an additional eleven holes (including from five of the Pigibo North sterilisation drill holes).

These include the latest new results reported from the Sorowar – Pigiput Trend since October 2024 (refer to the ASX release on 17 October 2024 titled “*Significant Intercept of 31 m at 6.1 g/t Au at Sorowar – Pigiput Trend*”). This series of results forms the second set to be reported from the FY25 resource definition, exploration and sterilisation drill program comprising 62 holes for 9,000 m that commenced on 1 July 2024. The program includes approximately 4,750 m of resource definition drilling at the Sorowar-Pigiput Trend and at Samat deposit with a further approximately 4,250 m of exploration and sterilisation drilling testing six additional target areas. To date 44 diamond drill holes have been completed for 7,777 m. Drilling is progressing ahead of schedule with approximately 70% of the overall program completed.

## Explanatory Notes

Figure 1 below shows the location of the respective open pits on the mining lease (ML 136).

Figure 2 shows the location of the proposed FY25 sulphide diamond drilling program on ML136. The eight target areas include individual drill hole collar locations and drill traces. The two resource definition drilling areas include the Sorowar-Pigiput Trend and Samat deposit and are highlighted by dark red polygons. The six exploration and / or sterilisation drilling areas are highlighted by light red polygons. These targets include Pigibo North, Monun East, Southeast Pigibo, between Pigibo and Botlu, between Botlu and Pigicow, and North Samat. It should be noted that some individual drill hole locations yet to be drilled within the target areas will vary slightly as a function of clearing access in steep terrain. 44 diamond drill holes for 7,777 m were completed on ML136 between July and December 2024. Drilling has been completed at Sorowar-Pigiput Trend, Pigibo North and Pigicow-Botlu areas.

Figure 3 shows the locations of the FY25 planned and completed sterilisation and exploration diamond drill holes at Pigibo North and Southwest Sorowar. The aim of the program is to identify a suitable area for waste rock dump storage. Twelve sterilisation drill holes SDH572, SDH577, SDH579, SDH583, SDH585, SDH588, SDH593, SDH595, SDH597, SDH608, SDH615 and SDH617 have been completed for 2,475 m. Assay results have been returned for five additional sterilisation drill holes, with three previously reported on 17 October 2024.

As noted above, significant near-surface intercepts from Pigibo North and Southwest Sorowar shown in figure 3 include:

- **SDH585: 28 m @ 1.0 g/t Au from 0 m, and**
- **SDH595: 24 m @ 1.4 g/t Au from 0 m.**

The mineralisation intersected in SDH585 is located 200 m northwest of Pigibo North pit boundary and 200 m Southwest of Sorowar pit boundary. The mineralisation intersected in SDH595 is located approximately 55 m west of current Resource and Reserve limits. This area has not been tested by resource drilling previously due to the challenging topography having made access difficult.

Seven excavator trenches (SIMTR1054 to SIMTR1060) were completed for 435 m between Pigibo North and Sorowar in October and November as noted above with results shown in the figure including:

- **SIMTR1054: 30 m @ 1.3 g/t Au,**
- **SIMTR1055: 40 m @ 2.0 g/t Au,**
- **SIMTR1056: 20 m @ 0.9 g/t Au, and**
- **SIMTR1059: 25 m @ 2.1 g/t Au.**

Trenches SIMTR1055 and SIMTR1059 are located in between and outside the Pigibo North and Sorowar pit boundaries. The trenches are approximately 45 m north of Pigibo North and 90 m south of the Sorowar pit boundary. Trenches SIMTR1054 and SIMTR1056 are located between 25 m and 75 m within the southwestern Sorowar pit boundary. Two additional trenches (SIMTR1061 and SIMTR1062) for 145 m were completed adjacent to diamond hole SDH585. Assay results are expected in Q3 FY25.

The trench results have been further tested by two additional diamond drill holes SDH606 and SDH607. Assay results are expected during Q3 FY25.

The next stage in the evaluation process will be follow-up grade control drilling to understand the areal extent of potential shallow oxide mineralisation.

Figure 4 shows the locations of the FY25 planned and completed resource definition and exploration diamond drill holes on the Sorowar-Pigiput Trend. All 24 resource definition drill holes planned at Sorowar-Pigiput Trend have been completed for 4,008.1 m. Resource definition and exploration diamond drill holes SDH570-571, SDH573-576, SDH578, SDH580-582, SDH584, SDH586-587, SDH589-592, SDH594, SDH596 and SDH598-602 have further tested the interpreted northwest trending zone of mineralisation located between the existing Sorowar and Pigiput ore bodies.

Assay results for the remaining eight Sorowar-Pigiput Trend resource definition drill holes completed to date are expected to be returned during Q3 FY25.

Figure 1. Simberi Island Site Layout within Mining Lease.

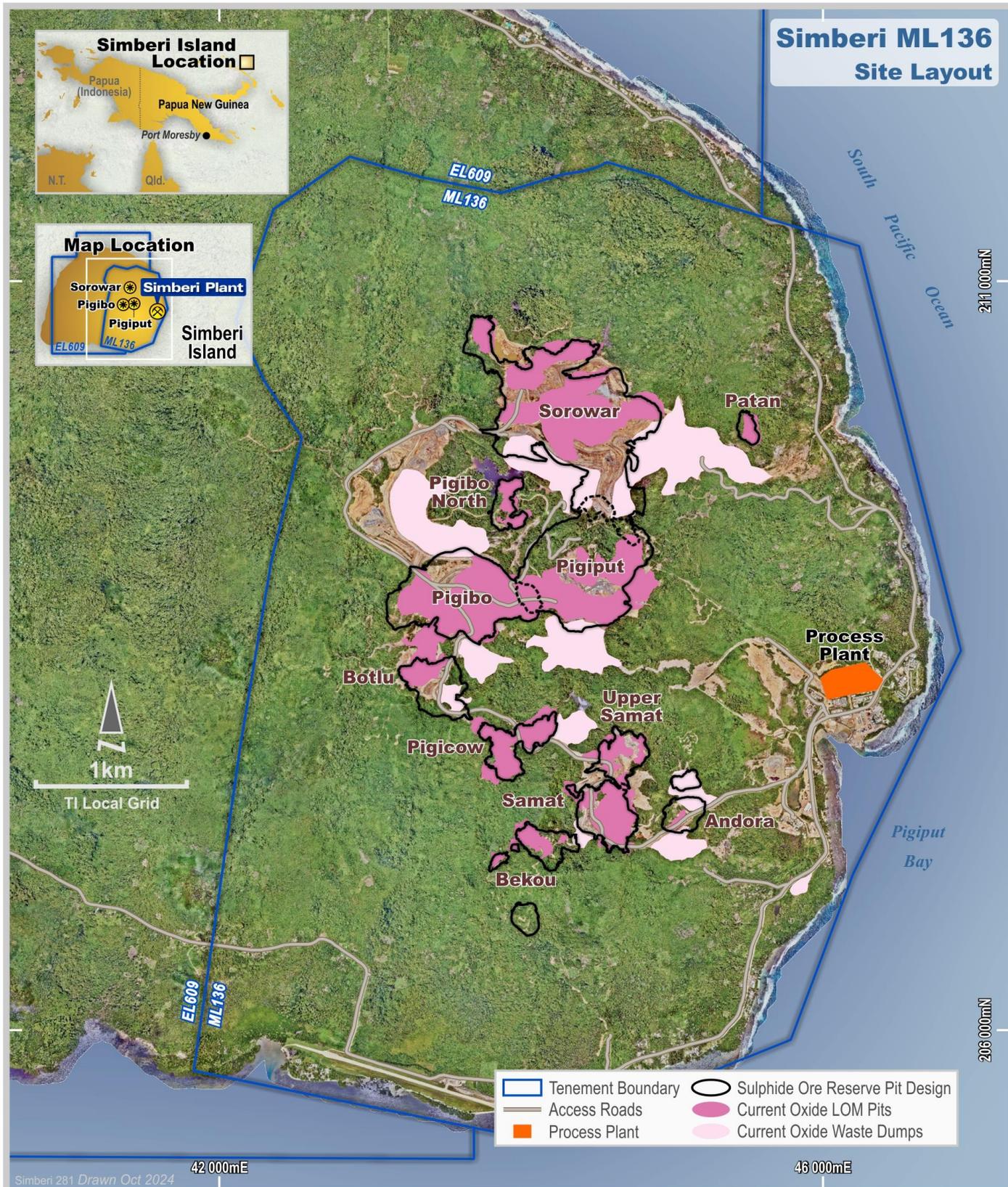


Figure 2. FY25 Completed and Planned Diamond Drilling, Simberi Island, Papua New Guinea.

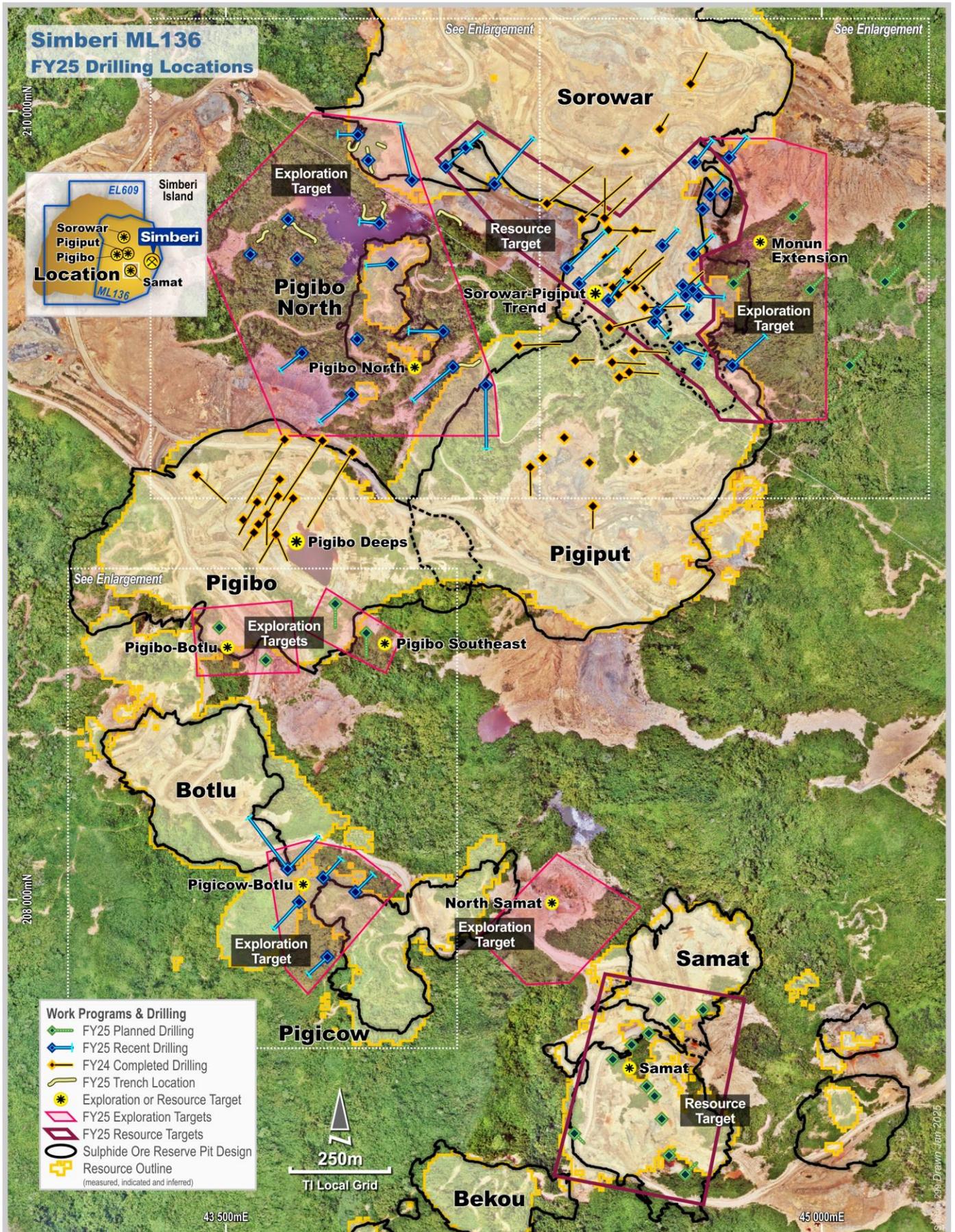


Figure 3. FY24 and FY25 Diamond Drilling at Pigibo North, Simberi Island.

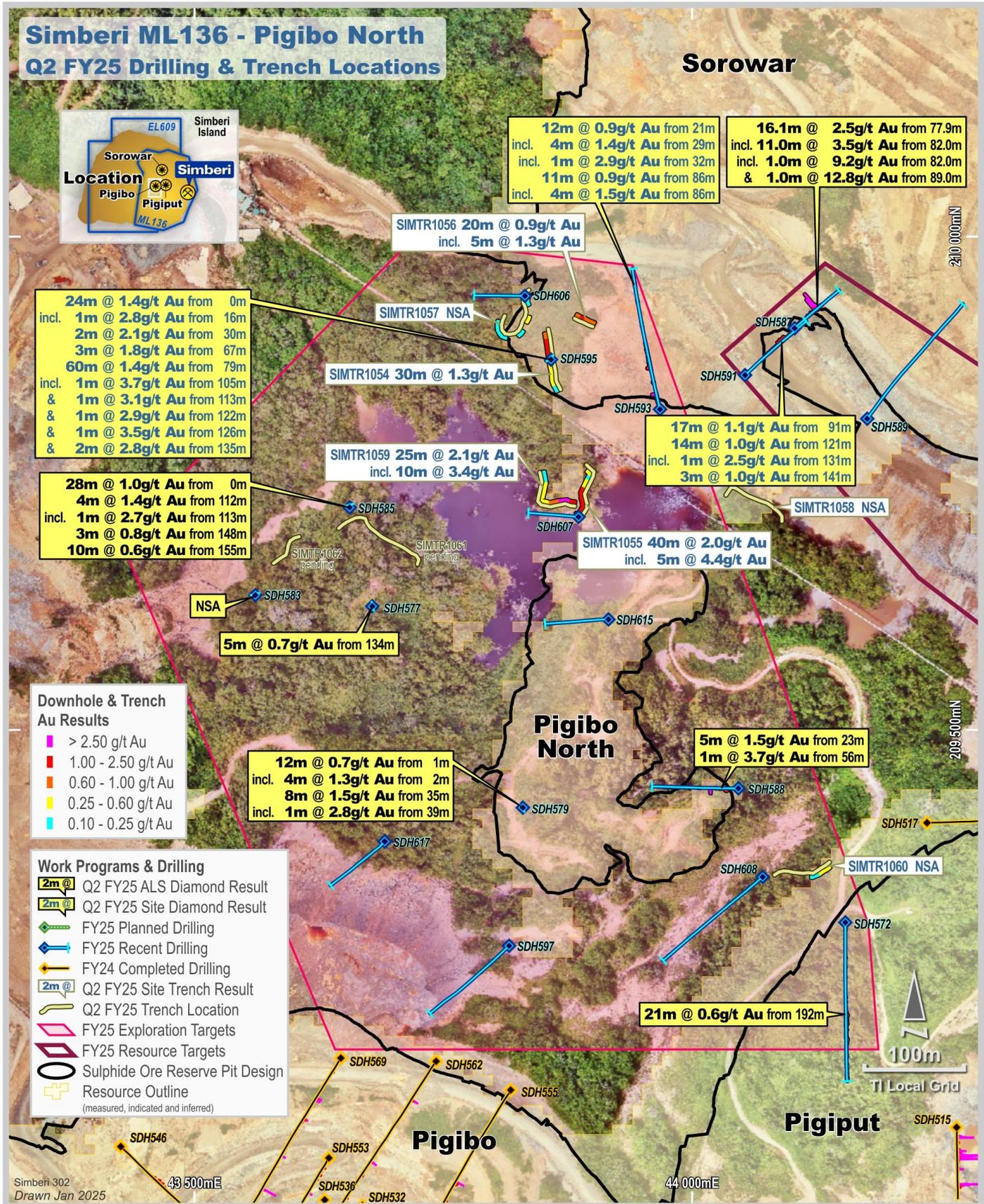
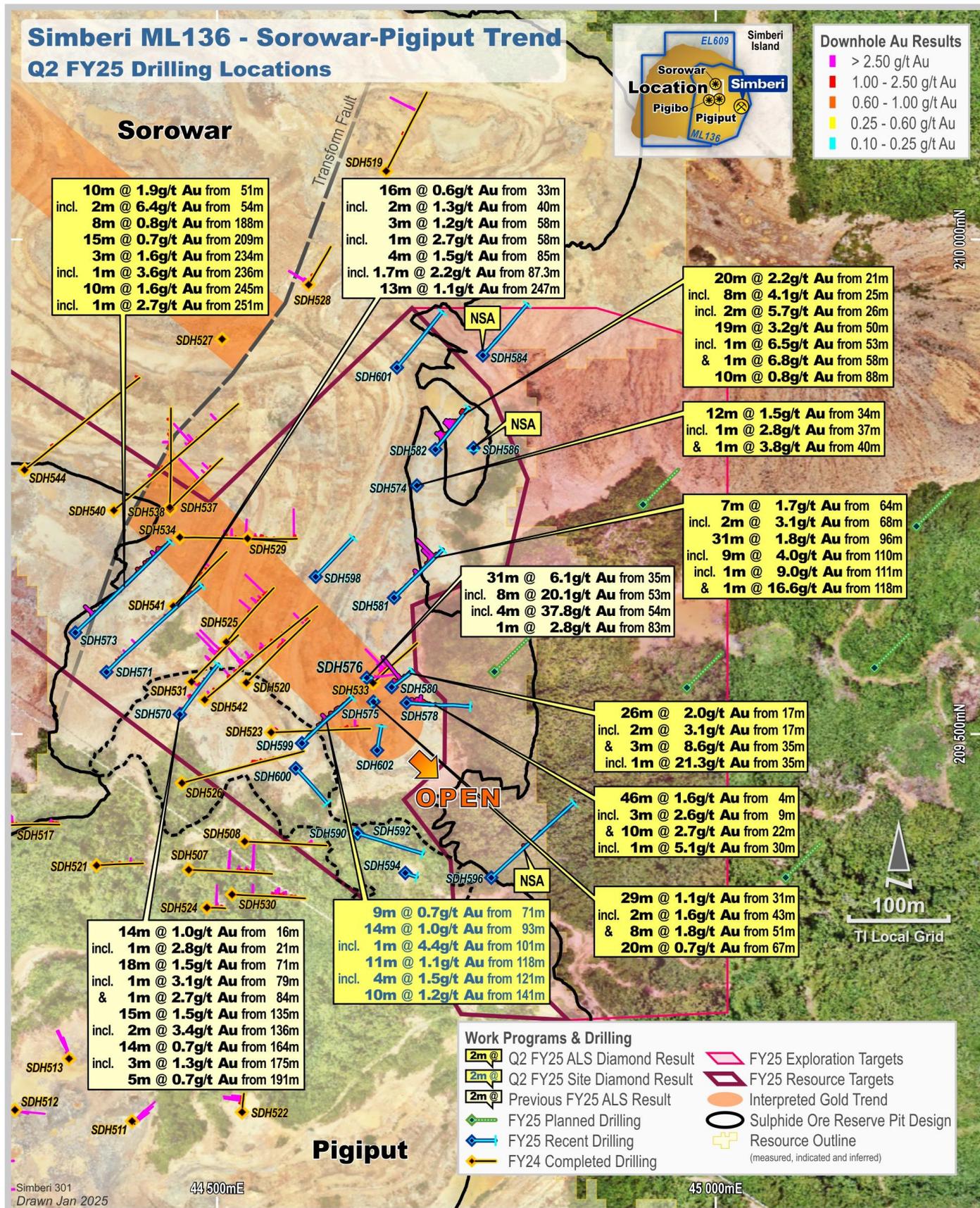


Figure 4. FY25 Completed Diamond Drilling, Sorowar – Pigiput Trend, Simberi Island.



**Authorised by**

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**Competent Persons Statement**

The information in this report that relates to Exploration Results is based on information compiled by Dr Roger Mustard, who is a Member of The Australasian Institute of Mining and Metallurgy. Dr Mustard is a full-time employee of St Barbara and has sufficient experience 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'. Dr Mustard consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

**Table 1: Simberi Diamond Drilling Significant Intercepts – Simberi Island, Papua New Guinea.**

Hole Id	North	East	RL	Dip/ Azimuth	Total Depth	Lode	Down-hole Mineralised Intersection			
	m	m	m	degrees	m		From	To	Interval	Gold grade
							m	m	m	g/t Au
<b>SDH570<sup>^</sup></b>	209,520	44,463	149.0	-75 / 036	266.2	TR	16.0	30.0	14.0	1.0
<i>including</i>						TR	21.0	22.0	1.0	2.8
						SU	71.0	89.0	18.0	1.5
<i>including</i>						SU	79.0	80.0	1.0	3.1
<i>and</i>						SU	84.0	85.0	1.0	2.7
						SU	135.0	150.0	15.0	1.5
<i>including</i>						SU	136.0	138.0	2.0	3.4
						SU	164.0	178.0	14.0	0.7
<i>including</i>						SU	175.0	178.0	3.0	1.3
						SU	191.0	196.0	5.0	0.7
<b>SDH571<sup>^</sup></b>	209,563	44,389	158.0	-62 / 046	284.6	OX,TR,SU	33.0	49.0	16.0	0.6
<i>including</i>						TR	40.0	42.0	2.0	1.3
						SU	58.0	61.0	3.0	1.2
<i>including</i>						SU	58.0	59.0	1.0	2.7
						SU	85.0	89.0	4.0	1.5
<i>including</i>						SU	87.3	89.0	1.7	2.2
						SU	247.0	260.0	13.0	1.1
<b>SDH572</b>	209,305	44,154	164.3	-61 / 180	331.0	SU	192.0	213.0	21.0	0.6
<b>SDH573</b>	209,603	44,358	164.9	-63 / 047	279.9	OX,TR,SU	51.0	61.0	10.0	1.9
<i>including</i>						OX,TR,SU	54.0	56.0	2.0	6.4
						SU	188.0	196.0	8.0	0.8
						SU	209.0	224.0	15.0	0.7
						SU	234.0	237.0	3.0	1.6
<i>including</i>						SU	236.0	237.0	1.0	3.6
						SU	245.0	255.0	10.0	1.6
<i>including</i>						SU	251.0	252.0	1.0	2.7
<b>SDH574</b>	209,751	44,700	75.7	-90 / 360	153.9	SU	34.0	46.0	12.0	1.5
<i>including</i>						SU	37.0	38.0	1.0	2.8
<i>and</i>						SU	40.0	41.0	1.0	3.8
<b>SDH575</b>	209,533	44,657	75.9	-90 / 162	115.9	SU	31.0	60.0	29.0	1.1
<i>including</i>						SU	43.0	45.0	2.0	1.6
<i>and</i>						SU	51.0	59.0	8.0	1.8
						SU	67.0	87.0	20.0	0.7
<b>SDH576<sup>^</sup></b>	209,557	44,650	76.2	-89 / 158	97.0	SU	35.0	66.0	31.0	6.1
<i>including</i>						SU	53.0	61.0	8.0	20.1
<i>including</i>						SU	54.0	58.0	4.0	37.8
						SU	83.0	84.0	1.0	2.8
<b>SDH577</b>	209,625	43,679	208.4	-90 / 210	153.0	SU	134.0	139.0	5.0	0.7
<b>SDH578</b>	209,532	44,690	75.8	-63 / 095	143.4	OX,TR,SU	4.0	50.0	46.0	1.6
<i>including</i>						SU	9.0	12.0	3.0	2.6
<i>and</i>						SU	22.0	32.0	10.0	2.7
<i>including</i>						SU	30.0	31.0	1.0	5.1

NOTES:

<sup>^</sup>: Final results reported in ASX Release dated 17 October 2024.

\*: Site lab preliminary results

OX: oxide, SU: sulphide, TR: transitional material

**Table 1 Cont: Simberi Diamond Drilling Significant Intercepts – Simberi Island, Papua New Guinea.**

Hole Id	North	East	RL	Dip/ Azimuth	Total Depth	Lode	Down-hole Mineralised Intersection			
	m	m	m	degrees	m		From	To	Interval	Gold grade
							m	m	m	g/t Au
<b>SDH579</b>	209,421	43,830	184.9	-90 / 222	202.2	OX,TR	1.0	13.0	12.0	0.7
<i>including</i>						OX	2.0	6.0	4.0	1.3
						TR,SU	35.0	43.0	8.0	1.5
<i>including</i>						TR,SU	39.0	40.0	1.0	2.8
<b>SDH580</b>	209,547	44,675	75.9	-70 / 055	80.7	TR,SU	17.0	43.0	26.0	2.0
<i>including</i>						TR,SU	17.0	19.0	2.0	3.1
<i>and</i>						SU	35.0	38.0	3.0	8.6
<i>including</i>						SU	35.0	36.0	1.0	21.3
<b>SDH581</b>	209,638	44,677	75.6	-60 / 046	141.7	SU	64.0	71.0	7.0	1.7
<i>including</i>						SU	68.0	70.0	2.0	3.1
						SU	96.0	127.0	31.0	1.8
<i>including</i>						SU	110.0	119.0	9.0	4.0
<i>including</i>						SU	111.0	112.0	1.0	9.0
<i>and</i>						SU	118.0	119.0	1.0	16.6
<b>SDH582</b>	209,788	44,719	75.8	-60 / 039	104.7	OX,TR	21.0	41.0	20.0	2.2
<i>including</i>						TR	25.0	33.0	8.0	4.1
<i>including</i>						TR	26.0	28.0	2.0	5.7
						SU	50.0	69.0	19.0	3.2
<i>including</i>						SU	53.0	54.0	1.0	6.5
<i>and</i>						SU	58.0	59.0	1.0	6.8
						SU	88.0	98.0	10.0	0.8
<b>SDH583</b>	209,637	43,561	175.0	-89 / 311	109.0		No Significant Results			
<b>SDH584</b>	209,883	44,766	74.8	-61 / 042	138.4		No Significant Results			
<b>SDH585</b>	209,725	43,656	172.5	-89 / 314	203.7	OX,TR,SU	0.0	28.0	28.0	1.0
						SU	112.0	116.0	4.0	1.4
<i>including</i>						SU	113.0	114.0	1.0	2.7
						SU	148.0	151.0	3.0	0.8
						SU	155.0	165.0	10.0	0.6
<b>SDH586</b>	209,789	44,757	75.7	-89 / 189	151.3		No Significant Results			
<b>SDH587</b>	209,907	44,103	213.7	-70 / 048	176.2	TR,SU	77.9	94.0	16.1	2.5
<i>including</i>						SU	82.0	93.0	11.0	3.5
<i>including</i>						SU	82.0	83.0	1.0	9.2
<i>and</i>						SU	89.0	90.0	1.0	12.8
<b>SDH588</b>	209,441	44,047	159.5	-60 / 270	177.4	TR	23.0	28.0	5.0	1.5
						SU	56.0	57.0	1.0	3.7
<b>SDH591*</b>	209,860	44,053	212.2	-60 / 047	177.4	SU	91.0	108.0	17.0	1.1
						SU	121.0	135.0	14.0	1.0
<i>including</i>						SU	131.0	132.0	1.0	2.5
						SU	141.0	144.0	3.0	1.0

NOTES:

^: Final results reported in ASX Release dated 17 October 2024.

\*: Site lab preliminary results

OX: oxide, SU: sulphide, TR: transitional material

**Table 1 Cont: Simberi Diamond Drilling Significant Intercepts – Simberi Island, Papua New Guinea.**

Hole Id	North	East	RL	Dip/ Azimuth	Total Depth	Lode	Down-hole Mineralised Intersection			
	m	m	m	degrees	m		From	To	Interval	Gold grade
							m	m	m	g/t Au
<b>SDH593*</b>	209,825	43,968	182.3	-60 / 347	177.4	OX,TR	21.0	33.0	12.0	0.9
<i>including</i>						TR	29.0	33.0	4.0	1.4
<i>including</i>						TR	32.0	33.0	1.0	2.9
						SU	86.0	97.0	11.0	0.9
<i>including</i>						SU	86.0	90.0	4.0	1.5
<b>SDH595*</b>	209,875	43,858	197.7	-90 / 333	177.4	OX,TR,SU	0.0	24.0	24.0	1.4
<i>including</i>						TR	16.0	17.0	1.0	2.8
						TR	30.0	32.0	2.0	2.1
						TR,SU	67.0	70.0	3.0	1.8
						SU	79.0	139.0	60.0	1.4
<i>including</i>						SU	105.0	106.0	1.0	3.7
<i>and</i>						SU	113.0	114.0	1.0	3.1
<i>and</i>						SU	122.0	123.0	1.0	2.9
<i>and</i>						SU	126.0	127.0	1.0	3.5
<i>and</i>						SU	135.0	137.0	2.0	2.8
<b>SDH596</b>	209,355	44,775	148.2	-61 / 048	234.8		No Significant Results			
<b>SDH599*</b>	209,491	44,585	131.8	-70 / 045	200.3	SU	71.0	80.0	9.0	0.7
						SU	93.0	107.0	14.0	1.0
<i>including</i>						SU	101.0	102.0	1.0	4.4
						SU	118.0	129.0	11.0	1.1
<i>including</i>						SU	121.0	125.0	4.0	1.5
						SU	141.0	151.0	10.0	1.2

NOTES:

^: Final results reported in ASX Release dated 17 October 2024.

\*: Site lab preliminary results

OX: oxide, SU: sulphide, TR: transitional material

**Table 2: Simberi Trench Significant Intercepts – Simberi Island, Papua New Guinea.**

Trench Id	Sample Length m	Number of Samples	Trench Length m	Start North m	Start East m	Start RL m	End North m	End East m	End RL m	From m	To m	Interval m	Gold Grade Au g/t
SIMTR1054	5	13	65	209,845	43,868	186.1	209,906	43,856	206.1	35	65	30	1.3
SIMTR1055	5	13	65	209,715	43,884	158.6	209,769	43,894	171.0	0	40	40	2.0
SIMTR1056	5	4	20	209,917	43,882	204.5	209,920	43,812	203.3	0	20	20	0.9
SIMTR1057	5	16	80	209,946	43,836	222.2	209,711	44,090	214.2				
SIMTR1058	5	15	75	209,738	44,034	170.3	209,727	43,882	161.8				
SIMTR1059	5	14	70	209,761	43,847	163.3	209,761	43,847	168.8	45	70	25	2.1
SIMTR1060	5	12	60	209,366	44,138	149.8	209,353	44,083	146.3				

NOTES:

Site lab results

**Table 3: Simberi Trench Assay Results – Simberi Island, Papua New Guinea.**

Sample Type	Trench Id	From m	To m	Interval m	North m	East m	RL m	Gold Grade Au g/t
Collar	SIMTR1054	0	0	N/A	209,845	43,868	186.1	
Trench	SIMTR1054	0	5	5	209,849	43,866	190.4	0.12
Trench	SIMTR1054	5	10	5	209,854	43,864	194.8	0.18
Trench	SIMTR1054	10	15	5	209,858	43,863	196.4	0.34
Trench	SIMTR1054	15	20	5	209,863	43,863	196.8	0.59
Trench	SIMTR1054	20	25	5	209,868	43,862	197.5	0.34
Trench	SIMTR1054	25	30	5	209,873	43,861	198.6	0.53
Trench	SIMTR1054	30	35	5	209,877	43,860	200.9	0.52
Trench	SIMTR1054	35	40	5	209,882	43,859	202.1	<b>0.72</b>
Trench	SIMTR1054	40	45	5	209,887	43,859	202.9	<b>1.02</b>
Trench	SIMTR1054	45	50	5	209,892	43,858	203.2	<b>1.6</b>
Trench	SIMTR1054	50	55	5	209,897	43,857	204.3	<b>2.02</b>
Trench	SIMTR1054	55	60	5	209,901	43,856	205.2	<b>1.59</b>
Trench	SIMTR1054	60	65	5	209,906	43,856	206.1	<b>0.61</b>
Collar	SIMTR1055	0	0	N/A	209,715	43,884	158.6	
Trench	SIMTR1055	0	5	5	209,716	43,889	160.7	<b>2.31</b>
Trench	SIMTR1055	5	10	5	209,720	43,892	167.1	<b>4.36</b>
Trench	SIMTR1055	10	15	5	209,724	43,894	164.8	<b>1.63</b>
Trench	SIMTR1055	15	20	5	209,729	43,894	164.8	<b>1.24</b>
Trench	SIMTR1055	20	25	5	209,734	43,893	164.4	<b>1.6</b>
Trench	SIMTR1055	25	30	5	209,739	43,892	164.8	<b>2.15</b>
Trench	SIMTR1055	30	35	5	209,743	43,894	163.8	<b>1.85</b>
Trench	SIMTR1055	35	40	5	209,748	43,896	165.1	<b>1.13</b>
Trench	SIMTR1055	40	45	5	209,752	43,898	168.5	0.32
Trench	SIMTR1055	45	50	5	209,757	43,901	170.2	0.38
Trench	SIMTR1055	50	55	5	209,762	43,901	169.3	0.22
Trench	SIMTR1055	55	60	5	209,765	43,898	170.5	0.17
Trench	SIMTR1055	60	65	5	209,769	43,894	171.0	0.37
Collar	SIMTR1056	0	0	N/A	209,917	43,882	204.5	
Trench	SIMTR1056	0	5	5	209,915	43,886	203.3	<b>0.75</b>
Trench	SIMTR1056	5	10	5	209,913	43,891	202.9	<b>1.28</b>
Trench	SIMTR1056	10	15	5	209,911	43,895	203.2	<b>0.92</b>
Trench	SIMTR1056	15	20	5	209,909	43,900	203.3	<b>0.77</b>
Collar	SIMTR1057	0	0	N/A	209,946	43,836	222.2	
Trench	SIMTR1057	0	5	5	209,943	43,832	224.6	0.05
Trench	SIMTR1057	5	10	5	209,938	43,830	223.2	0.45
Trench	SIMTR1057	10	15	5	209,933	43,830	220.2	0.55
Trench	SIMTR1057	15	20	5	209,928	43,832	219.3	0.15
Trench	SIMTR1057	20	25	5	209,923	43,833	219.5	0.06
Trench	SIMTR1057	25	30	5	209,919	43,832	218.2	0.03
Trench	SIMTR1057	30	35	5	209,914	43,830	217.2	0.43
Trench	SIMTR1057	35	40	5	209,909	43,828	215.6	0.06
Trench	SIMTR1057	40	45	5	209,905	43,826	215.3	0.08
Trench	SIMTR1057	45	50	5	209,902	43,822	214.6	0.1
Trench	SIMTR1057	50	55	5	209,901	43,817	215.3	0.07
Trench	SIMTR1058	55	60	5	209,724	44,084	164.4	0.05
Trench	SIMTR1058	60	65	5	209,721	44,087	162.9	0.05

Note:

Co-ordinates are interval end points

**Table 3 Cont: Simberi Trench Assay Results – Simberi Island, Papua New Guinea.**

Sample Type	Trench Id	From m	To m	Interval m	North m	East m	RL m	Gold Grade Au g/t
Trench	SIMTR1057	65	70	5	209,910	43,809	214.7	0.11
Trench	SIMTR1057	70	75	5	209,915	43,810	213.9	0.13
Trench	SIMTR1057	75	80	5	209,920	43,812	214.2	0.09
Collar	SIMTR1058	0	0	N/A	209,738	44,034	170.3	
Trench	SIMTR1058	0	5	5	209,742	44,037	170.9	0.07
Trench	SIMTR1058	5	10	5	209,746	44,039	170.9	0.08
Trench	SIMTR1058	10	15	5	209,745	44,044	169.9	0.06
Trench	SIMTR1058	15	20	5	209,742	44,048	167.8	0.09
Trench	SIMTR1058	20	25	5	209,739	44,053	168.1	0.08
Trench	SIMTR1058	25	30	5	209,737	44,057	169.4	0.05
Trench	SIMTR1058	30	35	5	209,735	44,062	169.5	0.05
Trench	SIMTR1058	35	40	5	209,733	44,066	168.6	0.04
Trench	SIMTR1058	40	45	5	209,731	44,071	169.0	0.05
Trench	SIMTR1058	45	50	5	209,730	44,076	167.9	0.05
Trench	SIMTR1058	50	55	5	209,727	44,080	166.4	0.05
Trench	SIMTR1058	55	60	5	209,724	44,084	164.4	0.05
Trench	SIMTR1058	60	65	5	209,721	44,087	162.9	0.05
Trench	SIMTR1058	65	70	5	209,716	44,090	161.8	0.04
Trench	SIMTR1058	70	75	5	209,711	44,090	161.8	0.03
Collar	SIMTR1059	0	0	N/A	209,761	43,847	163.3	
Trench	SIMTR1059	0	5	5	209,756	43,848	163.4	0.18
Trench	SIMTR1059	5	10	5	209,751	43,849	163.5	0.1
Trench	SIMTR1059	10	15	5	209,746	43,848	163.2	0.26
Trench	SIMTR1059	15	20	5	209,742	43,847	163.9	0.4
Trench	SIMTR1059	20	25	5	209,737	43,846	165.1	0.41
Trench	SIMTR1059	25	30	5	209,732	43,845	165.2	0.57
Trench	SIMTR1059	30	35	5	209,728	43,848	167.2	0.56
Trench	SIMTR1059	35	40	5	209,727	43,853	167.9	0.52
Trench	SIMTR1059	40	45	5	209,726	43,858	165.7	0.32
Trench	SIMTR1059	45	50	5	209,727	43,863	164.9	<b>0.7</b>
Trench	SIMTR1059	50	55	5	209,728	43,868	164.7	<b>0.6</b>
Trench	SIMTR1059	55	60	5	209,729	43,873	164.8	<b>3.38</b>
Trench	SIMTR1059	60	65	5	209,727	43,877	166.0	<b>3.47</b>
Trench	SIMTR1059	65	70	5	209,727	43,882	168.8	<b>2.26</b>
Collar	SIMTR1060	0	0	N/A	209,366	44,138	149.8	
Trench	SIMTR1060	0	5	5	209,363	44,134	148.9	0.06
Trench	SIMTR1060	5	10	5	209,360	44,130	147.9	0.53
Trench	SIMTR1060	10	15	5	209,357	44,126	147.5	0.34
Trench	SIMTR1060	15	20	5	209,355	44,122	147.6	0.35
Trench	SIMTR1060	20	25	5	209,355	44,117	146.7	0.11
Trench	SIMTR1060	25	30	5	209,355	44,112	146.5	0.03
Trench	SIMTR1060	30	35	5	209,355	44,107	145.8	0.05
Trench	SIMTR1060	35	40	5	209,356	44,102	145.9	0.05
Trench	SIMTR1060	40	45	5	209,357	44,097	146.5	0.05
Trench	SIMTR1060	45	50	5	209,357	44,092	146.5	0.06
Trench	SIMTR1060	50	55	5	209,356	44,087	146.5	0.05
Trench	SIMTR1060	55	60	5	209,353	44,083	146.3	0.06

Note:

Co-ordinates are interval end points

**JORC Table 1 Checklist of Assessment and Reporting Criteria  
Drilling: Section 1 Sampling Techniques and Data – Simberi ML136**

Criteria	Commentary
<b>Sampling techniques</b>	<ul style="list-style-type: none"> <li>Diamond Drilling comprised PQ3 (83 mm) and HQ3 (61.1 mm) sized core collected using standard triple tubes. Half core was sampled on nominal 1 metre intervals with the lower or left half (looking downhole) of the core submitted for sample preparation and analysis. Competent core is half cored using an Almonte automated coresaw whereas broken or highly weathered core is manually half cored with a masonry chisel.</li> <li>Half core samples were fully prepared at the company's on-site sample preparation facility on Simberi Island with 150 g to 200 g pulps sent to ALS Laboratory in Townsville for further analysis. Pulp residues are stored in Townsville for six months following assay before disposal.</li> </ul>
<b>Drilling techniques</b>	<ul style="list-style-type: none"> <li>Diamond drilling comprised PQ3 (83 mm) and HQ3 (61.1 mm) core recovered using a 1.5 m barrel. Drilling was completed by Quest Exploration Drilling (QED). When ground conditions permit, an ACT Digital Core Orientation Instrument was used by the contractor to orientate the HQ3 core.</li> </ul>
<b>Drill sample recovery</b>	<ul style="list-style-type: none"> <li>Diamond drilling recovery percentages were measured by comparing actual metres recovered per drill run versus metres recorded on the core blocks. Recoveries averaged &gt;98 % with increased core loss present in fault zones and zones of strong weathering/alteration.</li> </ul>
<b>Logging</b>	<ul style="list-style-type: none"> <li>Diamond holes are qualitatively geologically logged for lithology, structure and alteration and qualitatively and quantitatively logged for veining and sulphide mineralogy. Diamond holes are geotechnically logged with the following attributes qualitatively recorded - strength, infill material, weathering, and shape. Whole core and half core photography is completed on wet core.</li> <li>All holes are logged in their entirety and data recorded in templated excel workbook prior to being uploaded to the company's secure SQL database.</li> </ul>
<b>Sub-sampling techniques and sample preparation</b>	<ul style="list-style-type: none"> <li>All diamond drill core was half cored with the lower or left half (looking downhole) submitted for sample preparation and analysis.</li> <li>All drill samples are prepared at the company's on-site sample preparation facility. After oven drying for a minimum 8 hours, sample material undergoes initial crushing in a Terminator Jaw Crusher to achieve particle size &lt;2 mm. For samples weighing in excess of 1 kg, a 0.8 kg to 1.2 kg sample split is taken using a riffle splitter. Crushed samples of ~ 1 kg standardised weight are then completely pulverised in an Essa LM2 Pulveriser (90% passing 75 microns). Approximately 200 g of pulverised material is retained for assaying using a metal scoop to transfer material into analytical envelopes (pulp packets) before being sent to the ALS lab in Townsville.</li> <li>For internal reference, a second pulverised sub- sample (~100 grams) is analysed at the site lab using same QAQC reference materials as those sent to ALS lab.</li> <li>Quality control of sample material prepared on site consists of insertion of two (non-certified) blank control samples at the start of each hole, and between each sample, any pulverised residue in the LM2 is discarded and the bowl vacuumed and wiped clean.</li> <li>150 g to 200 g pulp samples are then sent to ALS Laboratory in Townsville for assay via air freight. Pulp residues are stored in Townsville for six months following assay for re-assay if required.</li> </ul>
<b>Quality of assay data and laboratory tests</b>	<ul style="list-style-type: none"> <li>Preliminary assays are received from pulps analysed for Au at the Simberi Lab using Aqua Regia digestion with a 15 g charge and analysis by Atomic Absorption Spectrometry.</li> <li>Final assays are received for pulps analysed for Au at ALS Townsville via 50 g Fire Assay Atomic Absorption Spectroscopy (AAS) finish (Au-AA26 method) and multi-element (Ag, As, S, Fe, Cu, Pb, Zn, Mo and Sb) by Aqua Regia digest followed by Inductively Coupled Plasma Atomic Emission Spectroscopy (ICP-AES) instrument read (ME-ICP41S method).</li> <li>Analyses at both the Site Lab and ALS comprised QC included insertion of certified reference material (1:20); insertion of in-house blank control material (2 at the start of each job); and the insertion of lab duplicates (1:20 split from the initial jaw crushed material prepared by the site lab. QAQC results were assessed as each laboratory batch was received and again at resource estimation cycles. Results indicate that pulveriser bowls were adequately cleaned between samples.</li> <li>ALS Townsville insert certified standards, replicates, lab repeats and complete sizing checks (1:40) or higher as part of their internal QAQC protocols.</li> </ul>
<b>Verification of sampling and assaying</b>	<ul style="list-style-type: none"> <li>Sampling data is recorded electronically which ensures only valid non-overlapping data can be recorded. Assay and downhole survey data are subsequently merged electronically. All drill data is stored in a SQL database on secure company server.</li> </ul>
<b>Location of data points</b>	<ul style="list-style-type: none"> <li>All drill collars were surveyed by company appointed surveyors using a DGPS in Tabar Island Grid (TIG) which is based on WGS84 ellipsoid and is GPS compatible.</li> <li>All diamond drill holes were downhole surveyed using a Reflex EZ track single shot camera with the first reading at 9, 12 or 18 m and one at 30 m and then approximately every 30 m increments to the bottom-of-the hole where an end of hole survey is also taken.</li> </ul>
<b>Data spacing and distribution</b>	<ul style="list-style-type: none"> <li>Resource definition drilling to define Indicated Mineral Resources is completed on a nominal 30m * 40m pattern. This spacing is adequate to establish both geological and grade continuity for the Mineral Resource and Ore Reserve procedures.</li> <li>Sampling is typically based on one-metre intervals with no compositing applied.</li> </ul>

Criteria	Commentary
<b>Orientation of data in relation to geological structure</b>	<ul style="list-style-type: none"> <li>Drilling is orientated perpendicular to the major structures controlling the distribution of gold mineralisation. The orientation of the drilling ensures unbiased sampling of structures. Exceptions occur when topography restricts access and prevents mineralisation being tested from an optimal orientation.</li> <li>In the Sorowar-Pigiput Trend area mineralisation is interpreted to strike northwest-southeast and dip moderately to shallowly to the southwest. In this area the optimum drill orientation is to drill to the northeast.</li> <li>In the Pigibo North area, due to the lower density drilling, the orientation to mineralisation is less well understood. In plan view, broad scale mineralisation is interpreted to be arcuate in geometry. In the central area it is interpreted to strike north-south and dip moderately to the east. In this area the optimum drill orientation is to drill to the west or sub vertically. In the southern area it is interpreted to strike northwest and dip moderately to the northeast. In this area the optimum drill orientation is to drill to the southwest.</li> </ul>
<b>Sample security</b>	<ul style="list-style-type: none"> <li>Only company personnel or approved contractors are allowed on drill sites; drill core is only removed from drill site to secure core logging/processing facility within the gated exploration core yard; core is promptly logged, cut, and prepped on site. The samples sent to ALS are stored in locked and guarded storage facilities until received at the Laboratory.</li> </ul>
<b>Audits or reviews</b>	<ul style="list-style-type: none"> <li>No audits or reviews of sampling protocols have been completed.</li> </ul>

## Drilling: Section 2 Reporting of Exploration Results – Simberi ML136

Criteria	Commentary
<b>Mineral tenement and land tenure status</b>	<ul style="list-style-type: none"> <li>SBM has 100 % ownership of the three tenements over the Simberi Islands; ML136 on Simberi Island, EL609 which covers the remaining area of Simberi Island, as well as Tatau Island and Big Tabar Island and 4 sub-block EL2462 which covers part of Tatau and Mapua Islands.</li> </ul>
<b>Exploration done by other parties</b>	<ul style="list-style-type: none"> <li>CRA, BHP, Tabar JV (Kennecott, Nord Australex and Niugini Mining), Nord Pacific, Barrick and Allied Gold have all previously worked in this area. Nord Pacific followed by Allied Gold was instrumental in the discovery and delineation of the 5 main oxide and sulphide deposits at Simberi.</li> </ul>
<b>Geology</b>	<ul style="list-style-type: none"> <li>The Simberi gold deposits are low sulphidation, intrusion related adularia-sericite epithermal gold deposits. The dominant host rocks for mineralisation are andesites, volcanoclastics and lesser porphyries. Gold mineralisation is generally associated with sulphides or iron oxides occurring within a variety of fractures, such as simple fracture in-fills, single vein coatings and crackle brecciation in the more competent andesite units, along andesite/polymict breccia contact margins as well as sulphide disseminations. Several holes in the area between Sorowar and Pigiput intersected zones of between 20 m and 100 m of semi continuous carbonate ± quartz base metal / Au veining, similar in style to mineralisation occurring on Tatau and Big Tabar islands to the south, which are also prospective for Porphyry Cu/Au deposits.</li> </ul>
<b>Drill hole Information</b>	<ul style="list-style-type: none"> <li>Drill hole information is included in intercept table outlining collar position obtained by DGPS pickup, hole dip and azimuth acquired from a downhole surveying camera as discussed in Section 1, composited mineralised intercepts lengths and depth as well as hole depth.</li> </ul>
<b>Data aggregation methods</b>	<ul style="list-style-type: none"> <li>Both Preliminary intercepts from the Simberi Site Lab and final intercepts from ALS Townsville for gold only epithermal mineralisation, comprise broad down hole intercepts reported as length weighted averages using a cut-off of 0.6 g/t Au, minimum width of 2 m, and a minimum grade*length of 2.5 gmpt (gram metre per tonne). Such intercepts may include material below cut-off but no more than 5 sequential metres of such material and except where the average drops below the cut-off. Supplementary cut-offs, of 1.0 g/t, 2.5 g/t, 5.0 g/t and 10.0 g/t Au may be used to highlight higher grade zones and spikes within the broader aggregated interval. Single assays intervals are reported only where ≥2.5 g/t Au and ≥1 m down hole.</li> <li>Core loss is assigned the same grade as the sample grade; no high-grade cut is applied; grades are reported to one decimal figure and no metal equivalent values are used for reporting exploration results.</li> </ul>
<b>Relationship between mineralisation widths and intercept lengths</b>	<ul style="list-style-type: none"> <li>Down hole length was reported for all holes.</li> <li>Simberi lodes display high variability in orientation and complex geometries because of the interplay of veining, brecciation intensity, host lithology and oxidation fronts.</li> <li>Four of the resource definition drill holes at Sorowar-Pigiput trend (SDH584, 587, 596 and 599) are drilled toward the northeast (between azimuth 042° and 048°) roughly perpendicular to the interpreted northwest strike of the Sorowar - Pigiput trend mineralisation and at angles between 60° and 70° from horizontal. A single resource definition drill hole at Sorowar-Pigiput trend (SDH586) was drilled vertically due to a lack of ground access in steep topography. SDH599 which was drilled to the northeast (azimuth 045°) at an angle of 70° resulted in mineralised intercepts with an exaggeration over true widths by 1.1 times.</li> <li>Three of the sterilisation holes drilled at Pigibo North (SDH583, 585 and 595) were drilled vertically, one hole (SDH588) were drilled towards the west (azimuth 270°) and one hole (SDH593) was drilled towards the north-northwest (azimuth 347°). This is to test a broad area where mineralisation has a potential arcuate north-south strike (and/or any east west connection) and moderate to shallow east dip. The drilling density in this area is low and as a result the detailed orientation to mineralisation is less well understood.</li> </ul>
<b>Diagrams</b>	<ul style="list-style-type: none"> <li>Included in the body of the report.</li> </ul>
<b>Balanced reporting</b>	<ul style="list-style-type: none"> <li>Details of all holes material to Exploration Results are reported in intercept tables. This report covers eleven new holes (SDH583 to SDH588, SDH591, SDH593, SDH595, SDH596 and SDH599) of a sixty two hole FY25 resource definition, exploration and sterilisation diamond drilling program. Assay results from five FY25 resource definition diamond drill holes at Sorowar-Pigiput trend and six exploration / sterilisation diamond drill holes at Pigibo North are reported in Table 1. In addition, final ALS results have been reported in this table for 10 holes previously reported from the Simberi site laboratory (including SDH572 to SDH575 and SDH577 to SDH582).</li> </ul>
<b>Other substantive exploration data</b>	<ul style="list-style-type: none"> <li>Included in the body of the report.</li> </ul>

Criteria	Commentary
<b>Further work</b>	<ul style="list-style-type: none"> <li>Included in the body of the report.</li> </ul>

## Trenching: Section 1 Sampling Techniques and Data – Simberi ML136

Criteria	Commentary
<b>Sampling techniques</b>	<ul style="list-style-type: none"> <li>Sampling of trenches was done over measured intervals of between 1 and 5 metres dependent on geology. A geo-pick was used to collect a continuous channel sample from the trench faces across the designated interval with the samples collected in calico bags. Samples (3 to 5 kg) were prepped on-site (jaw crushed, disk mill pulverised and then split) to produce a 200 g pulp sample. A 25 g charge was then extracted from the pulp for Au analyses by Aqua Regia digestion followed by an Atomic Absorption Spectroscopy (AAS) instrument finish.</li> </ul>
<b>Trenching techniques</b>	<ul style="list-style-type: none"> <li>Mechanised trenches were dug by an excavator or dozer exposing up to 5 meters of trench wall.</li> <li>Hand dug trenches are cut using shovels and picks approximately along contours exposing up to 1.5 m of trench wall.</li> </ul>
<b>Sample recovery</b>	<ul style="list-style-type: none"> <li>NA</li> </ul>
<b>Logging / Mapping</b>	<ul style="list-style-type: none"> <li>All trenches were qualitatively geologically mapped for lithology, structure and alteration.</li> </ul>
<b>Sub-sampling techniques and sample preparation</b>	<ul style="list-style-type: none"> <li>Samples are routinely submitted for total pulverisation (85 % passing &lt;75 µm) at the company onsite sample preparation facility on Simberi Island.</li> <li>200 g pulps are sent to St Barbara's Simberi Laboratory where a 15 g sub-sample is taken.</li> </ul>
<b>Quality of assay data and laboratory tests</b>	<ul style="list-style-type: none"> <li>Samples were analysed for gold at the Simberi Lab using Aqua Regia digestion with a 15 g charge and analysis by Atomic Absorption Spectrometry.</li> <li>QC included the insertion of two in house blanks at the start of each batch of trench samples, the insertion of certified gold standards (1:20) and crush duplicates collected during sample preparation (1:20).</li> <li>Over the duration of the quarter St Barbara inserted OREAS standards 238b and 252b as matched to material type and grade approximation.</li> </ul>
<b>Verification of sampling and assaying</b>	<ul style="list-style-type: none"> <li>Sampling data is recorded electronically which ensures only valid non-overlapping data can be recorded. Assay and trench survey data are subsequently merged electronically. All data is stored in a SQL database on secure company server.</li> </ul>
<b>Location of data points</b>	<ul style="list-style-type: none"> <li>All Simberi Island trenches were initially surveyed by a handheld GPS to capture the trench start point. The GPS used the Tabar Island Grid (TIG) which is based on WGS84 ellipsoid. The path of the trench from the initial start point to the end was surveyed by Tape &amp; Compass method. Trench interval coordinates were then generated using basic trigonometry.</li> </ul>
<b>Data spacing and distribution</b>	<ul style="list-style-type: none"> <li>Trench data spacing is irregular and broad spaced.</li> </ul>
<b>Orientation of data in relation to geological structure</b>	<ul style="list-style-type: none"> <li>Where preceding surface mapping and sampling of trenches have contributed to the understanding of outcropping geological structures, trenching and sampling has been undertaken to extend the strike length of the mapped structure. However, in many of the areas the lode orientation is poorly understood.</li> </ul>
<b>Sample security</b>	<ul style="list-style-type: none"> <li>Only trained company personnel were allowed to collect the samples. All samples were held within a secure company building before dispatch. The samples were prepared on site at the sample preparation facility.</li> </ul>
<b>Audits or reviews</b>	<ul style="list-style-type: none"> <li>No audits or reviews of sampling protocols have been completed.</li> </ul>

## Trenching: Section 2 Reporting of Exploration Results – Simberi ML136

Criteria	Commentary
<b>Mineral tenement and land tenure status</b>	<ul style="list-style-type: none"> <li>SBM has 100 % ownership of the three tenements over the Simberi Islands; ML136 on Simberi Island, EL609 which covers the remaining area of Simberi Island, as well as Tatau Island and Big Tabar Island and 4 sub-block EL2462 which covers part of Tatau and Mapua Islands.</li> </ul>
<b>Exploration done by other parties</b>	<ul style="list-style-type: none"> <li>CRA, BHP, Tabar JV (Kennecott, Nord Australalex and Niugini Mining), Nord Pacific, Barrick and Allied Gold have all previously worked in this area. Nord Pacific followed by Allied Gold was instrumental in the discovery and delineation of the 5 main oxide and sulphide deposits at Simberi.</li> </ul>
<b>Geology</b>	<ul style="list-style-type: none"> <li>The Simberi gold deposits are low sulphidation, intrusion related adularia-sericite epithermal gold deposits. The dominant host rocks for mineralisation are andesites, volcanoclastics and lesser porphyries. Gold mineralisation is generally associated with sulphides or iron oxides occurring within a variety of fractures, such as simple fracture in-fills, single vein coatings and crackle brecciation in the more competent andesite units, along andesite/polymict breccia contact margins as well as sulphide disseminations. On Tatau and Big Tabar Islands, located immediately south of Simberi, potential also exists for porphyry Cu-Au, epithermal quartz Au-Ag and carbonate-base metal Au mineralisation.</li> </ul>
<b>Trench Information</b>	<ul style="list-style-type: none"> <li>Included in the report text and annotated on diagrams.</li> </ul>
<b>Data aggregation methods</b>	<ul style="list-style-type: none"> <li>Broad trench intercepts are reported as length weighted averages using a cut-off of 0.6 g/t Au and a minimum grade*length of 2.5 gmpt. Such intercepts may include material below cut-off but no more than 5 sequential meters of such material and except where the average drops below the cut-off.</li> <li>Using the same criteria for included sub-grade, supplementary cut-offs, of 1.0 g/t Au, 2.5 g/t Au, 5.0 g/t Au and 10 g/t Au, may be used to highlight higher grade zones and spikes within the broader aggregated interval. Single assays intervals are reported only where <math>\geq 1.0</math> g/t and <math>\geq 5</math> m trench length is intercepted. Grades are reported to 1 decimal figure &amp; no high-grade cut is applied.</li> </ul>
<b>Relationship between mineralisation widths and intercept lengths</b>	<ul style="list-style-type: none"> <li>Trench intercepts are sampled along the length of the trench and are reported for all trenches; true width is not reported.</li> </ul>
<b>Diagrams</b>	<ul style="list-style-type: none"> <li>Included in the body of the report.</li> </ul>
<b>Balanced reporting</b>	<ul style="list-style-type: none"> <li>Figures when included show all sample sites material and immaterial to Exploration Results.</li> </ul>
<b>Other substantive exploration data</b>	<ul style="list-style-type: none"> <li>Included in the body of the report.</li> </ul>
<b>Further work</b>	<ul style="list-style-type: none"> <li>Included in the body of the report.</li> </ul>