

## ASX ANNOUNCEMENT

2 February 2021

# Duketon Belt landholding to increase 10x and include the Golden Star Deposit

### Highlights

- Exclusive and irrevocable option acquired to purchase three large exploration license applications around GSN's Cox's Find Gold Project
- GSN landholding in the Duketon Greenstone belt expected to increase approximately 10x from 47km<sup>2</sup> to 459km<sup>2</sup>
- Includes the Golden Star Deposit which Duketon Mining Limited drilled in 2017-18 to demonstrate over 600m of continuous mineralised strike length, open in all directions
- Best prior drill intersections at Golden Star include:
  - 15m @ 6.5 g/t Au incl. 4m @ 23.3 g/t Au
  - 50m @ 1.8 g/t Au incl. 5m @ 9.2 g/t Au and 6m @ 2.9 g/t Au
  - 50m @ 1.6 g/t Au incl. 17m @ 3.8 g/t Au
  - 34m @ 2.3 g/t Au incl. 12m @ 5.3 g/t Au
  - 25m @ 2.5 g/t Au incl. 5m @ 10.7 g/t Au
  - 35m @ 1.4 g/t Au incl. 11m @ 2.9 g/t Au
  - 12m @ 4.0 g/t Au incl. 8m @ 5.9 g/t Au
  - 26m @ 1.6 g/t Au incl. 5m @ 6.3 g/t Au
  - 15m @ 2.2 g/t Au incl. 4m @ 7.4 g/t Au
  - 20m @ 1.5 g/t Au incl. 7m @ 3.5g/t Au

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Great Southern Mining Limited (ASX: GSN) (**GSN** or the **Company**) is pleased to announce that it has secured an exclusive, irrevocable option over three large exploration license applications around its Cox's Find Gold Project in the Laverton region of Western Australia (see Figure 1). Upon exercise of the option, GSN expects to substantially expand its land position in the Duketon Greenstone Belt from 47km<sup>2</sup> to 459km<sup>2</sup>.

### **GSN's Chief Executive Officer, Sean Gregory, commented:**

*"GSN has now cemented its position as a major gold explorer and developer in the Laverton goldfields. The Golden Star Deposit moves to the forefront of our project development pipeline and we plan to immediately commence project evaluation and drill targeting activities. Our exploration footprint in the immediate region has expanded by almost 10 times to now total 459km<sup>2</sup>, a tenement base we plan to aggressively explore."*

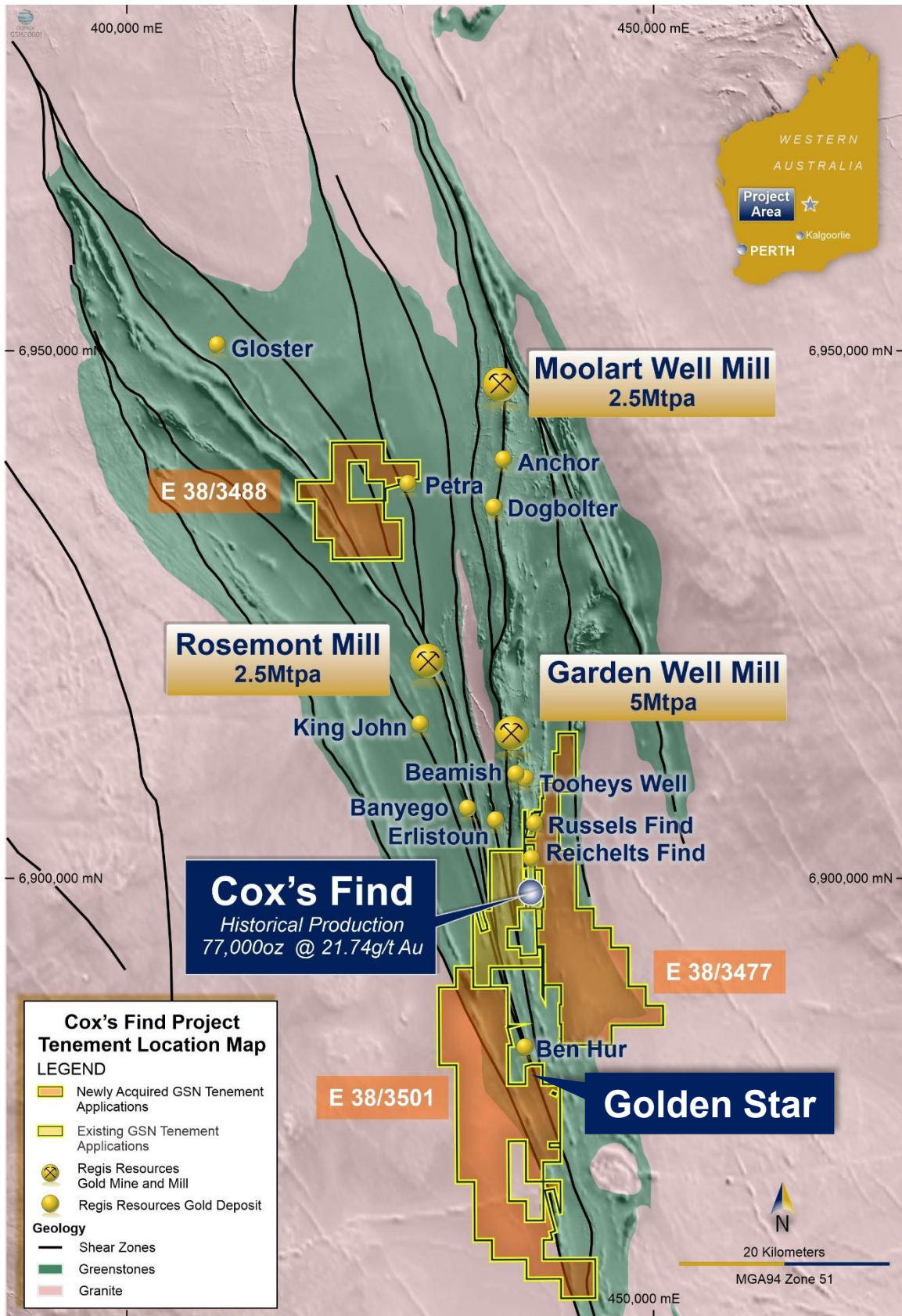


Figure 1 - Plan view highlighting the large tenement application package under option and the highly prospective mineralised trends



## Golden Star Deposit

The Golden Star Deposit is located 4km along strike to the south of the Ben Hur Deposit and 32km south of the Garden Well Mill, both owned by Regis Resources Limited (Figure 1).

Duketon Mining Limited drilled the Golden Star Deposit in 2017-18, demonstrating over 600m of continuous mineralised strike length, open in all directions (Figure 2 and 3).

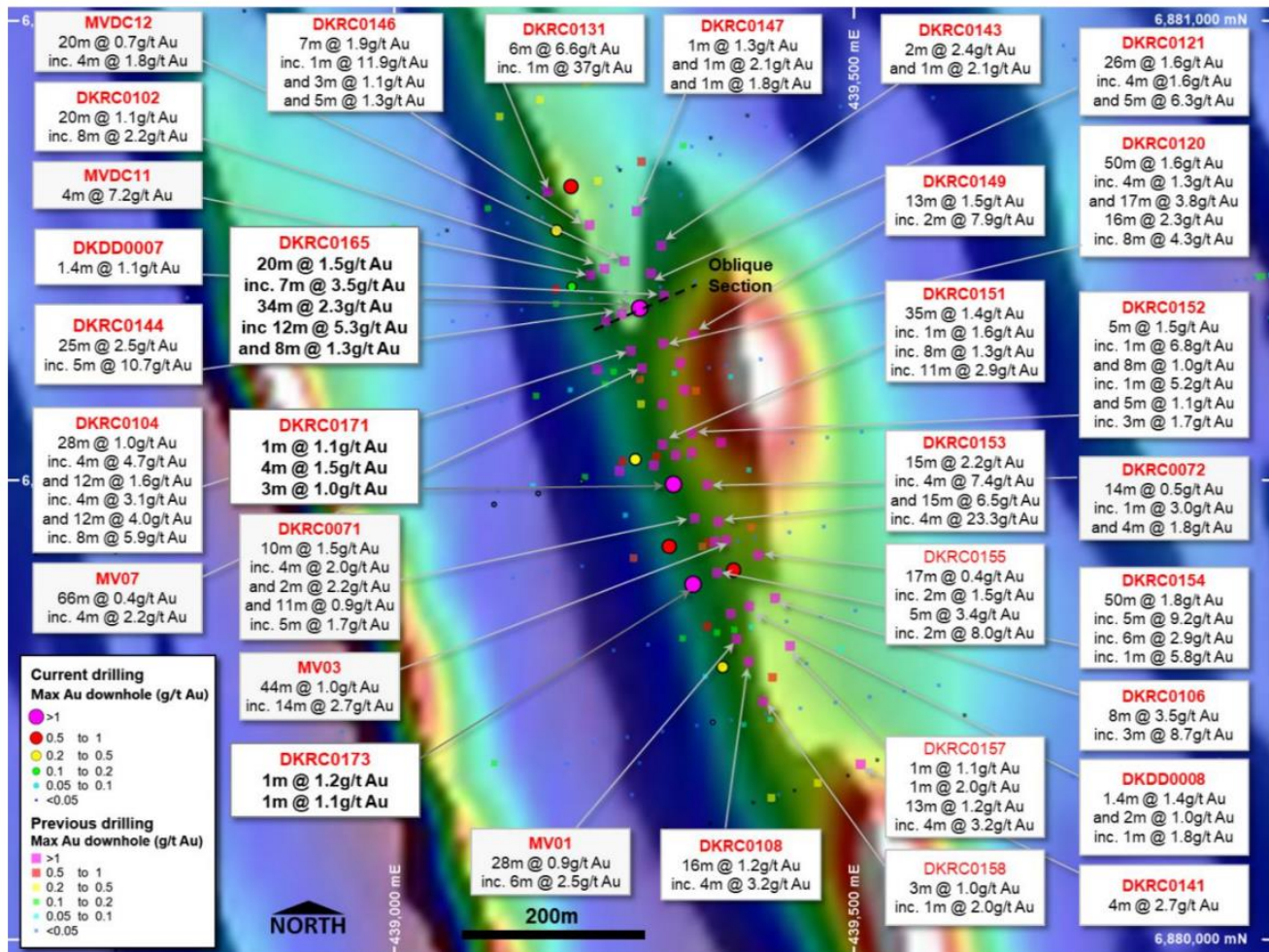


Figure 2 - Plan view highlighting drilling results at Golden Star (source DKM June 2019 Quarterly Report 25/7/19)

Best drill intersections at Golden Star, previously reported by Duketon Mining Limited, include:

- 15m @ 6.5 g/t Au incl. 4m @ 23.3 g/t Au
- 50m @ 1.8 g/t Au incl. 5m @ 9.2 g/t Au and 6m @ 2.9 g/t Au
- 50m @ 1.6 g/t Au incl. 17m @ 3.8 g/t Au
- 34m @ 2.3 g/t Au incl. 12m @ 5.3 g/t Au
- 25m @ 2.5 g/t Au incl. 5m @ 10.7 g/t Au
- 35m @ 1.4 g/t Au incl. 11m @ 2.9 g/t Au
- 12m @ 4.0 g/t Au incl. 8m @ 5.9 g/t Au
- 26m @ 1.6 g/t Au incl. 5m @ 6.3 g/t Au

- 15m @ 2.2 g/t Au incl. 4m @ 7.4 g/t Au
- 20m @ 1.5 g/t Au incl. 7m @ 3.5g/t Au

Refer ASX:DKM announcements 7/11/18, 6/8/18, 17/7/18, 19/4/18, 19/12/17 and 23/10/17 for details of the Golden Star drill intersections.

Mineralisation at Golden Star occurs as several stacked lenses within a sequence of foliated sheet-like gabbroic intrusive units and is associated with quartz veining and sulphide alteration between two strike parallel shear zones. The deposit is hosted in a fractionated dolerite sill, overturned and younging to the west that is over 100m wide in areas. Within this dolerite sill the most fractionated part, a quartz-magnetite rich unit up to 80m wide, appears to be the preferential host of the gold mineralisation. High grades, up to 60g/t Au have been intersected plus several 50 gram-metre intersections and, in places, plus 90 gram-metre intersections. Mineralisation occurs within 4m of the surface in areas and high grades are seen throughout the mineralisation. Sulphides and some quartz veining have been identified north and south of this main zone of mineralisation.

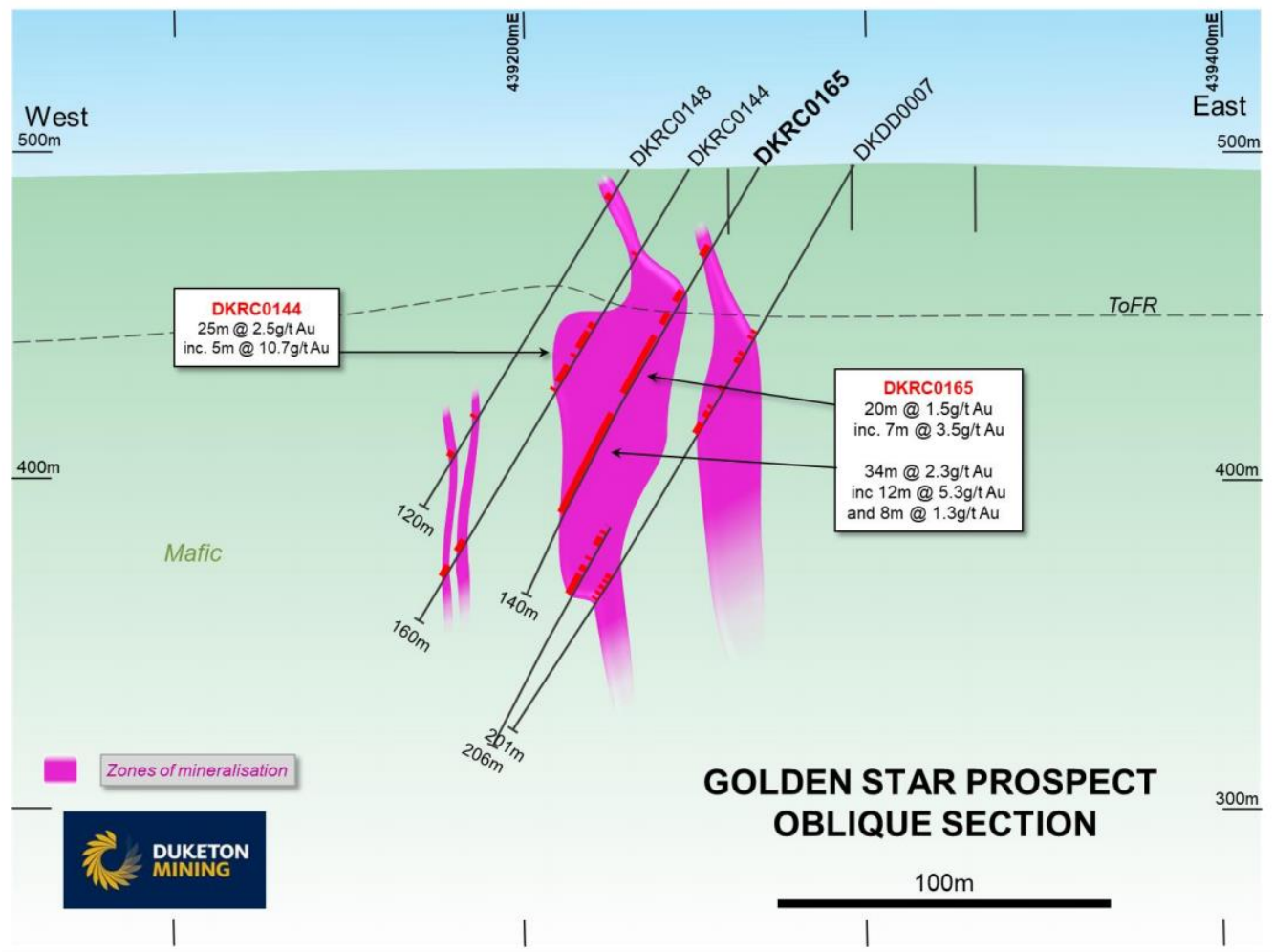


Figure 3 - Cross section view highlighting drilling results at Golden Star (source DKM June 2019 Quarterly Report 25/7/19)

## Option Acquisition Details

GSN has secured an irrevocable and exclusive option to purchase three large exploration licenses (currently under application) from private company, GC Explore Pty Ltd, upon the granting of the licenses. The three exploration license applications are E38/3477, E38/3488, and E38/3501.

The consideration for the option (and the cost of exercise) totals A\$75,000, with A\$25,000 payable immediately and two milestone payments of A\$25,000 due on the grant and transfer of the second and third exploration licenses.

## Next Steps

The tenement applications were lodged in the first half of calendar 2020 and are progressing through the WA Mines Department's expedited procedure. License grant is currently anticipated in the first half of calendar 2021.

GSN plans to collate all of the historical data and immediately commence project planning activities with a view to integrating this new exploration ground into our existing portfolio and commencing aggressive exploration of it on an expedited basis.

**This announcement is authorised by the Executive Chairman of GSN.**

## About Great Southern Mining

Great Southern Mining Limited is a leading Australian listed gold exploration company. With significant land holdings in the world-renowned gold districts of Laverton in Western Australia and Mt Carlton in North Queensland, all projects are located within 25km of operating gold mills and major operations.

The Company's focus is on creating and capturing shareholder wealth through efficient exploration programs and strategic acquisitions of projects that complement the Company's existing portfolio of quality assets.

For further information regarding Great Southern Mining Limited please visit the ASX platform (ASX:GSN) or the Company's website [www.gsml.com.au](http://www.gsml.com.au).

The following information is provided as an addendum to the original market announcement of 1/2/21 to ensure compliance with the ASX listing rules.

Table 1 - Significant Intersections for Golden Star (Significant Intercepts are >1m @ 0.1g/t Au with a maximum internal dilution of 2 metres. Intersections are downhole widths).

Hole ID	Easting (MGA 94 Z51)	Northing (MGA 94 Z51)	Nominal RL (m)	Dip (°)	Azi (mag)	Total Depth (m)	Depth From (m)	Depth To (m)	Intercept Width (m)	Au (ppb)	Comments
DKDD0007	439293	6880701	496	-60	250	200.9	58.5	61.5	3	128	3m @0.1g/t Au
DKDD0007						and	66	70	4	452	4m @0.5g/t Au
DKDD0007						inc	66	67.4	1.4	<b>1137</b>	1.4m @1.1g/t Au
DKDD0007						and	78	79.5	1.5	193	1.5m @0.2g/t Au
DKDD0007						and	85	94.8	9.8	154	9.8m @0.2g/t Au
DKDD0007						and	145	154	9	142	9m @0.1g/t Au
DKDD0008	439386	6880363	502	-60	250	180	42	43	1	129	1m @0.1g/t Au
DKDD0008						and	44	45	1	133	1m @0.1g/t Au
DKDD0008						and	68	76.2	8.2	355	8.2m @0.4g/t Au
DKDD0008						and	72.6	74	1.4	<b>1423</b>	1.4m @1.4g/t Au
DKDD0008						and	99	100.1	1.1	176	1.1m @0.2g/t Au
DKDD0008						and	103	105	2	<b>1035</b>	2m @1.0g/t Au
DKDD0008						inc	103	104	1	<b>1788</b>	1m @1.8g/t Au
DKDD0008						and	111	112	1	469	1m @0.5g/t Au
DKDD0008						and	114.8	119.8	5	177	5m @0.2g/t Au
DKDD0008						and	129.7	132.1	2.4	212	2.4m @0.2g/t Au
DKDD0008						and	147.7	148.8	1.1	207	1.1m @0.2g/t Au
DKDD0008						and	152.5	155.5	3	179	3m @0.2g/t Au
DKDD0008						and	169.5	170.5	1	386	1m @0.4g/t Au
DKRC0102	439228	6880730	490	-60	250	100	32	36	4	280	4m @0.3g/t Au
DKRC0102						and	40	60	20	<b>1063</b>	20m @1.1g/t Au
DKRC0102						inc	52	60	8	<b>2227</b>	8m @2.2g/t Au
DKRC0102						and	65	71	6	564	6m @0.6g/t Au
DKRC0102						inc	67	68	1	<b>1036</b>	1m @1.0g/t Au
DKRC0103	439220	6880621	499	-60	250	90	0	4	4	221	4m @0.2g/t Au
DKRC0103						and	24	28	4	713	4m @0.7g/t Au
DKRC0103						and	68	76	8	130	8m @0.1g/t Au
DKRC0104	439257	6880641	494	-60	250	150	28	56	28	<b>1010</b>	28m @1.0g/t Au
DKRC0104						inc	44	48	4	<b>4686</b>	4m @4.7g/t Au
DKRC0104						and	60	72	12	<b>1593</b>	12m @1.6g/t Au
DKRC0104						inc	60	64	4	<b>3080</b>	4m @3.1g/t Au
DKRC0104						inc	68	72	4	<b>1379</b>	4m @1.4g/t Au
DKRC0104						and	124	136	12	<b>4008</b>	12m @4.0g/t Au
DKRC0104						inc	128	136	8	<b>5876</b>	8m @5.9g/t Au
DKRC0105	439268	6880583	507	-60	250	100	12	16	4	220	4m @0.2g/t Au
DKRC0106	439414	6880372	500	-60	250	150	82	90	8	<b>3448</b>	8m @3.5g/t Au
DKRC0106						inc	83	86	3	<b>8651</b>	3m @8.7g/t Au



Hole ID	Easting (MGA 94 Z51)	Northing (MGA 94 Z51)	Nominal RL (m)	Dip (°)	Azi (mag)	Total Depth (m)	Depth From (m)	Depth To (m)	Intercept Width (m)	Au (ppb)	Comments
DKRC0106						and	105	106	1	930	1m @0.9g/t Au
DKRC0106						and	130	134	4	134	4m @0.1g/t Au
DKRC0107	439366	6880355	503	-60	250	180	20	24	4	133	4m @0.1g/t Au
DKRC0107						and	28	48	20	441	20m @0.4g/t Au
DKRC0107						inc	32	36	4	1078	4m @1.1g/t Au
DKRC0107						and	66	67	1	734	1m @0.7g/t Au
DKRC0107						and	71	75	4	3034	4m @3.0g/t Au
DKRC0107						inc	72	74	2	5919	2m @5.9g/t Au
DKRC0107	439366	6880355	503	-60	250	180	78	98	20	946	20m @0.9g/t Au
DKRC0107						inc	84	85	1	3313	1m @3.3g/t Au
DKRC0107						and	89	90	1	9438	1m @9.4g/t Au
DKRC0119	439355	6880541	504	-60	250	206	56	60	4	147	4m @0.1g/t Au
DKRC0119						and	68	72	4	167	4m @0.2g/t Au
DKRC0119						and	91	92	1	447	1m @0.4g/t Au
DKRC0119						and	96	97	1	100	1m @0.1g/t Au
DKRC0119						and	100	103	3	174	3m @0.2g/t Au
DKRC0119						and	106	110	4	309	4m @0.3g/t Au
DKRC0119						and	136	140	4	366	4m @0.4g/t Au
DKRC0119						and	148	152	4	1488	4m @1.5g/t Au
DKRC0119						and	178	184	6	198	6m @0.2g/t Au
DKRC0120	439292	6880649	501	-60	250	200	48	98	50	1624	50m @1.6g/t Au
DKRC0120						inc	52	56	4	1268	4m @1.3g/t Au
DKRC0120						and	72	89	17	3842	17m @3.8g/t Au
DKRC0120						and	101	102	1	178	1m @0.2g/t Au
DKRC0120						and	105	110	5	149	5m @0.1g/t Au
DKRC0120						and	116	117	1	356	1m @0.4g/t Au
DKRC0120						and	120	136	16	2281	16m @2.3g/t Au
DKRC0120						inc	128	136	8	4305	8m @4.3g/t Au
DKRC0120						and	148	152	4	368	4m @0.4g/t Au
DKRC0121	439279	6880725	491	-60	250	206	78	79	1	112	1m @0.1g/t Au
DKRC0121						and	89	91	2	364	2m @0.4g/t Au
DKRC0121						and	98	104	6	671	6m @0.7g/t Au
DKRC0121						inc	103	104	1	2079	1m @2.1g/t Au
DKRC0121						and	128	154	26	1609	26m @1.6g/t Au
DKRC0121						inc	128	132	4	1568	4m @1.6g/t Au
DKRC0121						and	147	152	5	6255	5m @6.3g/t Au
DKRC0131	439166	6880814	491	-60	250	160	16	18	2	105	2m @0.1g/t Au
DKRC0131						and	21	27	6	6560	6m @6.6g/t Au
DKRC0131						inc	21	22	1	37024	1m @37.0g/t Au
DKRC0131						inc	25	26	1	1163	1m @1.2g/t Au
DKRC0132	439221	6880826	491	-60	250	179	28	32	4	214	4m @0.2g/t Au
DKRC0132						and	152	154	2	116	2m @0.1g/t Au

Hole ID	Easting (MGA 94 Z51)	Northing (MGA 94 Z51)	Nominal RL (m)	Dip (°)	Azi (mag)	Total Depth (m)	Depth From (m)	Depth To (m)	Intercept Width (m)	Au (ppb)	Comments
DKRC0133	439269	6880847	492	-60	250	220	154	157	3	331	3m @0.3g/t Au
DKRC0133						and	195	196	1	197	1m @0.2g/t Au
DKRC0133						and	203	204	1	283	1m @0.3g/t Au
DKRC0134	439314	6880864	493	-60	250	183	145	146	1	137	1m @0.1g/t Au
DKRC0135	439158	6880914	491	-60	250	178	113	114	1	290	1m @0.3g/t Au
DKRC0136	439209	6880933	491	-60	250	200	49	50	1	219	1m @0.2g/t Au
DKRC0136						and	116	122	6	213	6m @0.2g/t Au
DKRC0137	439254	6880946	492	-60	250	174	99	101	2	168	2m @0.2g/t Au
DKRC0137						and	106	107	1	295	1m @0.3g/t Au
DKRC0137						and	124	128	4	397	4m @0.4g/t Au
DKRC0138	439114	6880896	490	-60	250	100	39	40	1	282	1m @0.3g/t Au
DKRC0139	439410	6880155	500	-60	250	166	74	75	1	106	1m @0.1g/t Au
DKRC0139						and	89	90	1	211	1m @0.2g/t Au
DKRC0140	439461	6880171	501	-60	250	178	94	96	2	146	2m @0.1g/t Au
DKRC0140						and	111	112	1	390	1m @0.4g/t Au
DKRC0141	439507	6880191	501	-60	250	208	134	136	2	909	2m @0.9g/t Au
DKRC0141						and	178	182	4	<b>2675</b>	4m @2.7g/t Au
DKRC0142	439550	6880210	200	-60	250	238	178	180	2	157	2m @0.2g/t Au
DKRC0143	439290	6880755	495	-60	250	220	155	170	15	620	15m @0.6g/t Au
DKRC0143						inc	162	164	2	<b>2414</b>	2m @2.4g/t Au
DKRC0143						and	167	168	1	<b>2085</b>	1m @2.1g/t Au
DKRC0144	439247	6880681	494	-60	252	160	28	32	4	284	4m @0.3g/t Au
DKRC0144						and	55	67	12	683	12m @0.7g/t Au
DKRC0144						inc	59	60	1	<b>3175</b>	1m @3.2g/t Au
DKRC0144						and	63	64	1	<b>1361</b>	1m @1.4g/t Au
DKRC0144						and	70	80	10	<b>5413</b>	10m @5.4g/t Au
DKRC0144						inc	70	75	5	<b>10661</b>	5m @10.7g/t Au
DKRC0144						and	132	136	4	436	4m @0.4g/t Au
DKRC0144						and	141	145	4	444	4m @0.4g/t Au
DKRC0145	439121	6881116	479	-60	250	185	15	17	2	189	2m @0.2g/t Au
DKRC0145						and	34	42	8	171	8m @0.2g/t Au
DKRC0146	439212	6880778	493	-60	250	160	12	13	1	126	1m @0.1g/t Au
DKRC0146						and	33	40	7	<b>1883</b>	7m @1.9g/t Au
DKRC0146						inc	34	35	1	<b>11903</b>	1m @11.9g/t Au
DKRC0146						and	50	53	3	<b>1091</b>	3m @1.1g/t Au
DKRC0146						inc	51	52	1	<b>1679</b>	1m @1.7g/t Au
DKRC0146						and	61	65	4	746	4m @0.7g/t Au
DKRC0146						inc	62	63	1	<b>1197</b>	1m @1.2g/t Au
DKRC0146						and	69	74	5	<b>1341</b>	5m @1.3g/t Au
DKRC0146						inc	72	73	1	<b>4783</b>	1m @4.8g/t Au
DKRC0146						and	134	137	3	283	3m @0.3g/t Au
DKRC0147	439263	6880793	498	-60	250	200	78	80	2	232	2m @0.2g/t Au



Hole ID	Easting (MGA 94 Z51)	Northing (MGA 94 Z51)	Nominal RL (m)	Dip (°)	Azi (mag)	Total Depth (m)	Depth From (m)	Depth To (m)	Intercept Width (m)	Au (ppb)	Comments
DKRC0147						and	91	94	3	196	3m @0.2g/t Au
DKRC0147						and	104	105	1	185	1m @0.2g/t Au
DKRC0147						and	117	134	17	408	17m @0.4g/t Au
DKRC0147						inc	124	125	1	1330	1m @1.3g/t Au
DKRC0147						and	128	129	1	2061	1m @2.1g/t Au
DKRC0147						and	137	141	4	578	4m @0.6g/t Au
DKRC0147						inc	137	138	1	1770	1m @1.8g/t Au
DKRC0147						and	186	188	2	242	2m @0.2g/t Au
DKRC0148	439230	6880674	499	-60	250	120	9	14	5	446	5m @0.4g/t Au
DKRC0148						and	31	34	3	111	3m @0.1g/t Au
DKRC0148						and	88	89	1	136	1m @0.1g/t Au
DKRC0148						and	101	103	2	163	2m @0.2g/t Au
DKRC0149	439325	6880658	499	-60	250	220	109	110	1	179	1m @0.2g/t Au
DKRC0149						and	116	118	2	231	2m @0.2g/t Au
DKRC0149						and	134	138	4	244	4m @0.2g/t Au
DKRC0149						and	173	186	13	1541	13m @1.5g/t Au
DKRC0149						inc	173	175	2	7925	2m @7.9g/t Au
DKRC0149						and	212	213	1	422	1m @0.4g/t Au
DKRC0150	439315	6880598	504	-60	250	181	20	23	3	155	3m @0.2g/t Au
DKRC0150						and	26	29	3	132	3m @0.1g/t Au
DKRC0150						and	37	38	1	170	1m @0.2g/t Au
DKRC0150						and	41	48	7	414	7m @0.4g/t Au
DKRC0150						inc	44	45	1	1740	1m @1.7g/t Au
DKRC0150						and	56	83	27	175	27m @0.2g/t Au
DKRC0150						and	89	90	1	195	1m @0.2g/t Au
DKRC0150						and	123	128	5	341	5m @0.3g/t Au
DKRC0150						and	135	149	14	768	14m @0.8g/t Au
DKRC0150						inc	142	143	1	2928	1m @2.9g/t Au
DKRC0151	439291	6880539	505	-60	250	120	0	1	1	193	1m @0.2g/t Au
DKRC0151						and	4	39	35	1422	35m @1.4g/t Au
DKRC0151						inc	4	5	1	1616	1m @1.6g/t Au
DKRC0151						and	7	15	8	1282	8m @1.3g/t Au
DKRC0151						and	26	37	11	2880	11m @2.9g/t Au
DKRC0151						and	42	57	15	401	15m @0.4g/t Au
DKRC0151						inc	48	49	1	1015	1m @1.0g/t Au
DKRC0152	439323	6880551	508	-60	250	152	28	29	1	934	1m @0.9g/t Au
DKRC0152						and	36	42	6	223	6m @0.2g/t Au
DKRC0152						and	51	56	5	334	5m @0.3g/t Au
DKRC0152						and	63	78	15	375	15m @0.4g/t Au
DKRC0152						inc	72	73	1	1093	1m @1.1g/t Au
DKRC0152						and	115	120	5	1459	5m @1.5g/t Au
DKRC0152						inc	115	116	1	6800	1m @6.8g/t Au

Hole ID	Easting (MGA 94 Z51)	Northing (MGA 94 Z51)	Nominal RL (m)	Dip (°)	Azi (mag)	Total Depth (m)	Depth From (m)	Depth To (m)	Intercept Width (m)	Au (ppb)	Comments
DKRC0152						and	129	137	8	968	8m @1.0g/t Au
DKRC0152						inc	134	135	1	<b>5153</b>	1m @5.2g/t Au
DKRC0152						and	144	149	5	<b>1116</b>	5m @1.1g/t Au
DKRC0152						inc	144	147	3	<b>1748</b>	3m @1.7g/t Au
DKRC0153	439352	6880455	508	-60	250	185	4	8	4	137	4m @0.1g/t Au
DKRC0153						and	24	39	15	<b>2172</b>	15m @2.2g/t Au
DKRC0153						inc	28	32	4	<b>7394</b>	4m @7.4g/t Au
DKRC0153						and	44	55	11	306	11m @0.3g/t Au
DKRC0153						and	70	76	6	123	6m @0.1g/t Au
DKRC0153						and	80	95	15	<b>6539</b>	15m @6.5g/t Au
DKRC0153						inc	84	88	4	<b>23312</b>	4m @23.3g/t Au
DKRC0153						and	102	103	1	767	1m @0.8g/t Au
DKRC0153						and	106	107	1	509	1m @0.5g/t Au
DKRC0153						and	123	124	1	111	1m @0.1g/t Au
DKRC0153						and	135	137	2	262	2m @0.3g/t Au
DKRC0153						and	174	175	1	256	1m @0.3g/t Au
DKRC0154	439351	6880399	505	-60	250	150	0	2	2	217	2m @0.2g/t Au
DKRC0154						and	16	17	1	104	1m @0.1g/t Au
DKRC0154						and	20	70	50	<b>1838</b>	50m @1.8g/t Au
DKRC0154						inc	21	22	1	<b>2142</b>	1m @2.1g/t Au
DKRC0154						and	26	31	5	<b>9187</b>	5m @9.2g/t Au
DKRC0154						and	36	37	1	<b>2603</b>	1m @2.6g/t Au
DKRC0154						and	52	58	6	<b>2866</b>	6m @2.9g/t Au
DKRC0154						and	62	63	1	<b>5828</b>	1m @5.8g/t Au
DKRC0154						and	75	76	1	276	1m @0.3g/t Au
DKRC0155	439396	6880419	502	-60	250	210	80	97	17	412	17m @ 0.4 g/t Au
DKRC0155						inc	81	83	2	<b>1520</b>	2m @ 1.5 g/t Au
DKRC0155						and	144	149	5	<b>3360</b>	5m @ 3.4 g/t Au
DKRC0155						inc	145	147	2	<b>7963</b>	2m @ 8.0 g/t Au
DKRC0155						and	187	189	2	163	2m @ 0.2 g/t Au
DKRC0155						and	193	198	5	331	5m @ 0.3 g/t Au
DKRC0156	439340	6880342	502	-60	250	120	0	4	4	182	4m @ 0.2 g/t Au
DKRC0156						and	28	39	11	160	11m @ 0.2 g/t Au
DKRC0157	439430	6880320	502	-60	250	220	76	78	2	700	2m @ 0.7 g/t Au
DKRC0157						inc	76	77	1	<b>1138</b>	1m @ 1.1 g/t Au
DKRC0157						and	133	134	1	284	1m @ 0.3 g/t Au
DKRC0157						and	180	181	1	<b>2002</b>	1m @ 2.0 g/t Au
DKRC0157						and	188	201	13	<b>1154</b>	13m @ 1.2 g/t Au
DKRC0157						inc	193	197	4	<b>3203</b>	4m @ 3.2 g/t Au
DKRC0158	439401	6880259	502	-60	250	200	74	80	6	314	6m @ 0.3 g/t Au
DKRC0158						and	103	104	1	177	1m @ 0.2 g/t Au
DKRC0158						and	143	144	1	123	1m @ 0.1 g/t Au

Hole ID	Easting (MGA 94 Z51)	Northing (MGA 94 Z51)	Nominal RL (m)	Dip (°)	Azi (mag)	Total Depth (m)	Depth From (m)	Depth To (m)	Intercept Width (m)	Au (ppb)	Comments
DKRC0158						and	150	153	3	982	3m @ 1.0 g/t Au
DKRC0158						inc	151	152	1	1951	1m @ 2.0 g/t Au
DKRC0158						and	182	184	2	172	2m @ 0.2 g/t Au
DKRC0162	439176	6880773	492	-60	250	88	57	58	1	149	1m @0.1g/t Au
DKRC0162						and	71	77	6	349	6m @0.3g/t Au
DKRC0163	439192	6880820	491	-60	250	82	44	48	4	199	4m @0.2g/t Au
DKRC0163						and	60	64	4	440	4m @0.4g/t Au
DKRC0164	439193	6880712	493	-60	250	106	76	80	4	119	4m @0.1g/t Au
DKRC0165	439267	6880688	495	-60	250	148	28	32	4	160	4m @0.2g/t Au
DKRC0165						and	44	48	4	227	4m @0.2g/t Au
DKRC0165						and	52	56	4	171	4m @0.2g/t Au
DKRC0165						and	60	80	20	1501	20m @1.5g/t Au
DKRC0165						inc	61	68	7	3536	7m @3.5g/t Au
DKRC0165						and	87	121	34	2337	34m @2.3g/t Au
DKRC0165						inc	92	104	12	5319	12m @5.3g/t Au
DKRC0165						inc	109	117	8	1333	8m @1.3g/t Au
DKRC0166	438988	6880426	494	-60	250	82	46	49	3	364	3m @0.4g/t Au
DKRC0170	439262	6880524	501	-60	250	100	0	1	1	138	1m @0.1g/t Au
DKRC0170						and	17	34	17	237	17m @0.2g/t Au
DKRC0170						and	38	42	4	201	4m @0.2g/t Au
DKRC0170						and	90	91	1	178	1m @0.2g/t Au
DKRC0170						and	99	100	1	198	1m @0.2g/t Au
DKRC0171	439304	6880497	503	-60	250	142	5	8	3	314	3m @0.3g/t Au
DKRC0171						and	11	12	1	1148	1m @1.1g/t Au
DKRC0171						and	33	59	26	651	26m @0.7g/t Au
DKRC0171						inc	41	45	4	1483	4m @1.5g/t Au
DKRC0171						inc	48	51	3	1044	3m @1.0g/t Au
DKRC0171						and	63	74	11	183	11m @0.2g/t Au
DKRC0171						and	125	134	9	226	9m @0.2g/t Au
DKRC0172	439299	6880429	503	-60	250	82	0	1	1	729	1m @0.7g/t Au
DKRC0173	439325	6880388	502	-60	250	100	0	4	4	340	4m @0.3g/t Au
DKRC0173						and	21	23	2	745	2m @0.7g/t Au
DKRC0173						inc	21	22	1	1175	1m @1.2g/t Au
DKRC0173						and	26	37	11	270	11m @0.3g/t Au
DKRC0173						inc	31	32	1	1102	1m @1.1g/t Au
DKRC0174	439369	6880403	503	-60	250	183	32	40	8	356	8m @0.4g/t Au
DKRC0174						and	44	47	3	149	3m @0.1g/t Au
DKRC0174						and	50	62	12	226	12m @0.2g/t Au
DKRC0174						and	70	98	28	235	28m @0.2g/t Au
DKRC0174						and	101	106	5	135	5m @0.1g/t Au
DKRC0174						and	121	130	9	281	9m @0.3g/t Au
DKRC0174						and	133	137	4	214	4m @0.2g/t Au

Hole ID	Easting (MGA 94 Z51)	Northing (MGA 94 Z51)	Nominal RL (m)	Dip (°)	Azi (mag)	Total Depth (m)	Depth From (m)	Depth To (m)	Intercept Width (m)	Au (ppb)	Comments
DKRC0174						and	140	141	1	127	1m @0.1g/t Au
DKRC0174						and	177	178	1	101	1m @0.1g/t Au
DKRC0175	439357	6880298	501	-60	250	100	0	4	4	110	4m @0.1g/t Au
DKRC0175						and	32	36	4	326	4m @0.3g/t Au

## JORC Code 2012 Edition – Table 1

**Table 1 has been compiled from information from ASX announcements originally compiled by Duketon Mining Limited**

**Refer ASX:DKM announcements 7/11/18, 6/8/18, 17/7/18, 19/4/18, 19/12/17 and 23/10/17.**

### Section 1 Sampling Techniques and Data

Criteria	Commentary
<i>Sampling techniques</i>	<p>RC drill chips were collected as 1 metre samples from the rig cyclone and cone splitter to provide a 1 metre sample. Composite samples were collected using a spear. Sample size is approximately 2kg.</p> <p>Certified samples, blanks and field duplicates are inserted every 25th sample.</p> <p>Mineralisation determined qualitatively by geological logging and quantitatively through assaying.</p>
<i>Drilling techniques</i>	RC drilling using a face sampling hammer with a nominal diameter of 140mm.
<i>Drill sample recovery</i>	<p>Recoveries qualitatively noted at the time of drilling and recorded in the DKM database.</p> <p>The cyclone of the drill rig is cleaned at the end of each 6m rod to ensure sample is not “hung-up” and samples are as clean as possible with as little cross contamination as possible.</p> <p>No relationship between grade and recovery has yet been established.</p>
<i>Logging</i>	<p>All samples were logged to a level of detail to support future use in a mineral resource calculation should it be required.</p> <p>Qualitative: Lithology, alteration, mineralisation.</p> <p>Quantitative: Vein percentage, assaying for gold and other elements.</p> <p>All holes for their entire length are logged.</p>
<i>Sub-sampling techniques and sample preparation</i>	<p>RC drill chips were collected as 1 metre samples from the rig cyclone and cone splitter to provide a 1 metre sample. Composite samples were collected using a spear.</p> <p>Sample condition with respect to moisture content is noted on the geological log.</p> <p>The entire sample (approx. 2kg) has been dried, pulverised to 85% passing 75µm.</p> <p>Field duplicates are collected at a rate of 1 in 25. Pulp duplicates have been taken at the pulverising stage and selective repeats conducted at the laboratories discretion.</p> <p>Sample sizes are considered appropriate for the grainsize of the material sampled.</p>



Criteria	Commentary
<i>Quality of assay data and laboratory tests</i>	<p>Samples were assayed using a Fire Assay 50g charge with AAS finish for Au and a multi-acid digest with ICP-OES finish for 34 elements. This technique is industry standard for gold and considered appropriate.</p> <p>Assays were returned for the following elements: Au, Ag, Al, As, Ba, Bi, Ca, Cd, Ce, Co, Cr, Cu, Fe, K, La, Li, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Sn, Sr, Te, Ti, Tl, V, W and Zn.</p> <p>Certified Reference Material (Standards), blanks and field duplicates were submitted with batches (1 in every 25 samples).</p>
<i>Verification of sampling and assaying</i>	<p>All data has been checked for correctness by senior DKM geological and corporate staff.</p> <p>All data is collected and validated via Ocris software then uploaded into the DKM Datashed database.</p> <p>No adjustments have been made to assay data.</p> <p>No twinned holes have been drilled to date.</p>
<i>Location of data points</i>	<p>All location points were collected using a handheld GPS in MGA 94 – Zone 51</p> <p>Downhole surveying (magnetic azimuth and dip of the drillhole) of RC drillholes was measured by the drilling contractors using a digital multishot survey tool.</p> <p>A topographic surface has been created from airborne geophysical data. Drillholes have been corrected to this surface.</p>
<i>Data spacing and distribution</i>	<p>Holes were drilled at various spacing depending upon the holes drilled previously in the area of interest.</p> <p>Hole spacing is appropriate for drilling at this stage in the exploration process.</p> <p>Sample compositing has been applied.</p>
<i>Orientation of data in relation to geological structure</i>	<p>The orientation of the geology and mineralization at Golden Star is steeply dipping to the east, striking NNW.</p>
<i>Sample security</i>	<p>Chain of custody was managed by company representatives and is considered appropriate. All samples are bagged in a tied numbered calico bag, grouped into larger polyweave bags and cable tied. Polyweave bags are placed into larger bulky bags with a sample submission sheet and tied shut. Consignment note and delivery address details are written on the side of the bag and delivered to Toll in Laverton. The bags are delivered directly to MinAnalytical in Canning Vale, WA who are NATA accredited for compliance with ISO/IEC17025:2005.</p>
<i>Audits or reviews</i>	<p>No external audits or reviews have been conducted apart from internal company review.</p>

## Section 2 Reporting of Exploration Results

Criteria	Commentary
<i>Mineral tenement and land tenure status</i>	The tenement E38/3501 is under application in the name of GCX Explore Pty Ltd. GSN has secured an exclusive and irrevocable option to acquire the tenement upon grant.
<i>Exploration done by other parties</i>	<p>Previous drilling at Golden Star was completed by Duketon Mining Ltd, BP Minerals Australia, Ashton Gold and Johnson's Well Mining.</p> <p>This work has been checked for quality as far as possible and formed the basis of the follow-up conducted as part of the drilling program presented.</p>
<i>Geology</i>	Refer geology in document.
<i>Drill hole Information</i>	Significant intercepts are provided in a table within the text of this announcement.
<i>Data aggregation methods</i>	<p>No top-cuts have been applied when reporting results.</p> <p>First assay from the interval in question is reported (i.e. Au1)</p> <p>Aggregate sample assays calculated using a length weighted average</p> <p>Significant grade intervals based on intercepts &gt; 0.1 g/t gold.</p> <p>No metal equivalent values have been used for reporting of results.</p>
<i>Relationship between mineralisation widths and intercept lengths</i>	Downhole length is reported for the drillholes, true width is not yet known.
<i>Diagrams</i>	Refer to figures in document.
<i>Balanced reporting</i>	All drillhole locations are reported and a table of significant intervals is provided in the release text.
<i>Other substantive exploration data</i>	Refer to document.
<i>Further work</i>	Further work may involve drilling of deeper holes around the significant intervals presented and may also include testing along strike and in surrounding areas.

## **Competent Person's Statement**

The information in this report that relates to Exploration Results is based on information compiled or reviewed by Simon Buswell-Smith, a Competent Person who is a Member of the Australian Institute of Geoscientists. Mr. Buswell-Smith is Exploration Manager WA of Great Southern Mining Limited. Mr. Buswell-Smith has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Buswell-Smith consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

## **Forward Looking Statements**

Forward-looking statements are only predictions and are not guaranteed. They are subject to known and unknown risks, uncertainties and assumptions, some of which are outside the control of the Company. Past performance is not necessarily a guide to future performance and no representation or warranty is made as to the likelihood of achievement or reasonableness of any forward-looking statements or other forecast. The occurrence of events in the future are subject to risks, uncertainties and other factors that may cause the Company's actual results, performance or achievements to differ from those referred to in this announcement. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements. Any forward-looking statements in this announcement speak only at the date of issue of this announcement. Subject to any continuing obligations under applicable law and the ASX Listing Rules, the Company, its directors, officers, employees and agents do not give any assurance or guarantee that the occurrence of the events referred to in this announcement will occur as contemplated.