

quarterly report

FOR THE PERIOD ENDING
30 SEPTEMBER 2019



COMPANY ENQUIRIES

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COMPANY SECRETARY

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CORPORATE

Cash and Cash Equivalents

As at 30 September 2019, the Company had available cash of \$28,328,665.

Northern Star Resources Limited Shares ("NST")

As at 30 September 2019, the Company has 500,000 NST shares remaining.

Joint Venture with Northern Star Resources Limited

The Company previously announced that it had exercised the first put option available to it under the Joint Venture which was settled on 14 September 2018, resulting in the sale of a further 15% undivided interest in the Central Tanami Project ("CTP") for \$20 million in cash. The respective interests in the CTP of the Company and NST at the date of this report are 60% and 40%.

EXPLORATION

Central Tanami Project (60% Tanami)

NST have advised that the September quarter of 2019 has seen the completion of 4,767m of AC drilling in addition to several ground gravity programs being undertaken.

A delay to the Central Tanami SSCC approval has pushed back commencement of Phase 2 AC drilling at the Groundrush West and Dropzone prospects and Phase 1 RC drilling at the Solaris prospect.

Surface mapping and other geological reconnaissance programs were conducted throughout the period and have been incorporated into current or proposed drill programs.

RC drilling commenced at the Ripcord deposit late in the quarter with drilling programs expected to continue into the wet season, ceasing in early-December 2019.

Air core drilling:

A total of seventy (70) AC holes for 4,767m were completed at the Cave Hill project area during the quarter. This program focussed on reconnaissance drilling of structural targets, in an area of interpreted Tanami Group stratigraphy. The program anticipated to intercept extensive late-Antrim Plateau Basalt cover, delineating its eastern margin over the tenement, however drilling identified extensive Dead Bullock Formation concealed by up to 70m of transported alluvial cover. By the end of the quarter, no prospective intervals were identified with most assay results still pending.

Results from the previous quarters one hundred and fifty (150) AC holes for 6,672m at the Farrands Hill prospect were received and show minimal anomalism. Multi-element data correlation with geophysical data sets did not identify any discrete gold or pathfinder anomalies. No follow up activity is scheduled for this area.

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Reverse circulation drilling:

Drilling mobilised to Ripcord on 29 September 2019 and completed 69m of RC drilling. Visually, several quartz veins up 8m wide containing up to 10% sulphides (pyrite, chalcopyrite and arsenopyrite) were observed in both greywacke and dolerite lithologies.

A total of sixteen (16) RC holes for approximately 4,720m are planned in the next quarter to test the resource potential of the Ripcord deposit, both in the down-dip and along strike positions.

Geochemical, mapping, reconnaissance programs:

Surface geological mapping was undertaken at Cave Hill and Crusade during the quarter with further evaluation of the Cave Hill area required to assess potential targets in the northern tenure.

A detailed evaluation of the Crusade deposit was undertaken through the reprocessing of IP geophysical data and ground gravity acquisition. A new geological interpretation of the Crusade area has been compiled. Work completed at Crusade during the quarter contributed to the design of the current RC drill program to be completed next quarter. This program has been designed to validate existing drilling in the core of the Crusade resource whilst exploring the resource potential of the immediate Crusade area and testing the down-plunge extent of the Kokoda mineralisation, approximately 4km north of Crusade.

Planned work for next quarter:

- RC drilling programs:
 - Ripcord, Crusade and Solaris.
 - Commence AC drilling at Cave Hill, Ripcord, Sky Surf, Groundrush West and Crusade.
- Aircore drilling programs:
 - Groundrush West – Phase 2, Ripcord – Groundrush link, Dropzone.
- Ongoing exploration site rehabilitation.
- Spectral orientation study at Groundrush.

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MINERAL RESOURCES

Table 1: Tanami Gold NL Mineral Resources as at 30 September 2019 (60% Tanami)

Project	Resource Category											
	Measured			Indicated			Inferred			Total		
	Tonnes	Grade g/t Au	Ounces	Tonnes	Grade g/t Au	Ounces	Tonnes	Grade g/t Au	Ounces	Tonnes	Grade g/t Au	Ounces
CTP ⁹	6,255,000	2.9	579,000	11,075,000	2.8	1,001,000	12,106,000	2.9	1,133,000	29,436,000	2.9	2,713,000
CTP Stockpile ⁹	1,400,000	0.7	31,000	-	-	-	-	-	-	1,400,000	0.7	31,000
Total	7,655,000	2.5	610,000	11,075,000	2.8	1,001,000	12,106,000	2.9	1,133,000	30,836,000	2.8	2,744,000

Notes to accompany Table 1

- CTP is Central Tanami Project.
- Resource estimations completed using MineMap, Vulcan, Surpac, Datamine and Micromine software packages comprising a combination of ellipsoidal inverse distance and ordinary kriging grade interpolation methods.
- Variable gold assay top cuts were applied based on geostatistical parameters and historical production reconciliation.
- Resources reported above relevant cut-offs based on economic extractions, varying between 0.7g/t Au and 5.0g/t Au block model grade.
- Stockpile figures from previously reported Otter Gold Mines NL 2001 Mineral Resource estimate less recorded treatment by Newmont Asia Pacific.
- Tonnes and ounces rounded to the nearest thousand and grade rounded to 0.1g/t Au. Rounding may affect tallies.
- The information in this report pertaining to Mineral Resources was compiled by Mr Bill Makar (MAusIMM), former Consultant Geologist – Tanami Gold NL, Mr Michael Thomson (MAusIMM), former Principal Geologist for Tanami Gold NL, Mr Steven Nicholls (MAIG), former Senior Geologist for Tanami Gold NL, Mrs Claire Hillyard (MAusIMM), former Resource Geologist for Tanami Gold NL, Mr Mark Drabble (MAusIMM) – Principal Consultant Geologist, Optiro Pty Ltd and Mr Peter Ball (MAusIMM), Director of Datageo Geological Consultants, and Mr Brook Ekers, a Competent Person who is a Member of the Australian Institute of Geoscientists and a full-time employee of Northern Star Resources Limited. Mr Makar, Mr Thomson, Mr Nicholls, Mrs Hillyard, Mr Drabble, Mr Ball and Mr Ekers have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration 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 (JORC Code). Mr Makar, Mr Thomson, Mr Nicholls, Mrs Hillyard, Mr Drabble, Mr Ball and Mr Ekers consent to the inclusion in this report of the matters based on their information in the form and context in which it appears.
- The dates referred to in this table represents the date of the most recent update of a Resource (ML22934 Groundrush) within this table, all other Mineral Resources except for ML22934 Groundrush remain unchanged.
- On 4th of August 2015, an unincorporated joint venture ("JV") was formed between the Company and Northern Star Resources Limited who purchased an initial 25% interest in the Company's CTP. On 14 September 2018, the Company exercised the first put option available to it under the JV to sell a further 15% in the CTP. As at 30 September 2019, the Company retains a 60% interest in the CTP Resources stated in this table.

Table 2: Central Tanami Project Mineral Resources as at 30 September 2019 (60% Tanami)

Mineral Lease	Resource Category											
	Measured			Indicated			Inferred			Total		
	Tonnes	Grade g/t Au	Ounces	Tonnes	Grade g/t Au	Ounces	Tonnes	Grade g/t Au	Ounces	Tonnes	Grade g/t Au	Ounces
MLS153 ⁸	1,051,000	2.2	73,000	3,046,000	2.2	217,000	849,000	2.7	74,000	4,946,000	2.3	365,000
MLS167 ⁸	2,709,000	3.4	293,000	2,613,000	2.9	244,000	2,050,000	2.9	191,000	7,372,000	3.1	728,000
MLS168 ⁸	854,000	2.2	60,000	314,000	1.6	16,000	1,094,000	1.6	58,000	2,262,000	1.8	133,000
MLS180 ⁸	545,000	3.3	57,000	872,000	2.7	76,000	269,000	2	18,000	1,685,000	2.8	151,000
MLSA172 ⁸	1,096,000	2.7	96,000	176,000	1.8	10,000	142,000	2.7	12,000	1,415,000	2.6	119,000
ML22934 – Groundrush ⁹	-	-	-	4,054,000	3.4	438,000	6,602,000	3.3	691,000	10,656,000	3.3	1,129,000
ML22934 – Ripcord ⁸	-	-	-	-	-	-	1,100,000	2.5	89,000	1,100,000	2.5	89,000
Sub Total	6,255,000	2.9	579,000	11,075,000	2.8	1,001,000	12,106,000	2.9	1,133,000	29,436,000	2.9	2,713,000
Stockpiles ⁹	1,400,000	0.7	31,000	-	-	-	-	-	-	1,400,000	0.7	31,000
Total	7,655,000	2.5	610,000	11,075,000	2.8	1,001,000	12,106,000	2.9	1,133,000	30,836,000	2.8	2,744,000

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Notes to accompany Table 2

1. Resource estimations completed using MineMap, Vulcan and Micromine software packages comprising a combination of ellipsoidal inverse distance and ordinary kriging grade interpolation methods.
2. Grade estimation was constrained to material within >0.7g/t mineralisation outlines.
3. Variable gold assay top cuts were applied based on geostatistical parameters and historical production reconciliation.
4. Resources reported above 0.7g/t block model grade.
5. Resources reported above 1.0g/t block model grade.
6. Stockpile figures from previously reported Otter Gold Mines NL 2001 Mineral Resource estimate less recorded treatment by Newmont Asia Pacific.
7. Tonnes and ounces rounded to the nearest thousand and grade rounded to 0.1g/t. Rounding may affect tallies.
8. The information in this report pertaining to Mineral Resources for the Central Tanami Project (excluding ML22934 Groundrush) was compiled by Mr Bill Makar (MAusIMM), former Consultant Geologist – Tanami Gold NL, Mr Michael Thomson (MAusIMM), former Principal Geologist for Tanami Gold NL, Mr Steven Nicholls (MAIG), former Senior Geologist for Tanami Gold NL, Mrs Claire Hillyard (MAusIMM), former Resource Geologist for Tanami Gold NL and Mr Peter Ball (MAusIMM), Director of Datageo Geological Consultants. Mr Makar, Mr Thomson, Mr Nicholls, Mrs Hillyard and Mr Ball have sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration to qualify as Competent Persons as defined in the December 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code). Mr Makar, Mr Nicholls, Mrs Hillyard and Mr Ball consent to the inclusion in this report of the matters based on their information in the form and context in which it appears.
9. ML22934 Resource consists of two Resources - Groundrush Deposit (10.7million tonnes at 3.3g/t for 1,129,000 ounces of gold) and the Ripcord Deposit (1.1 Million tonnes at 2.5g/t for 89,000oz). The information in this report pertaining to Mineral Resources for ML22934 Groundrush was compiled by Mr Brook Ekers, a Competent Person who is a Member of the Australian Institute of Geoscientists and a full-time employee of Northern Star Resources Limited. Mr Ekers has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration 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 (JORC Code). Mr Ekers consents to the inclusion in the public report of the matters based on this information in the form and context in which it appears.
10. The dates referred to in this table represents the date of the most recent update of a Resource (ML22934 Groundrush) within this table, all other Mineral Resources except for ML22934 Groundrush remain unchanged.

ESTIMATION GOVERNANCE STATEMENT

The Company ensures that all Mineral Resource calculations are subject to appropriate levels of governance and internal controls.

Exploration results are collected and managed by an independent competent qualified geologist. All data collection activities are conducted to industry standards based on a framework of quality assurance and quality control protocols covering all aspects of sample collection, topographical and geophysical surveys, drilling, sample preparation, physical and chemical analysis and data and sample management.

Mineral Resource estimates are prepared by qualified independent Competent Persons. If there is a material change in the estimate of a Mineral Resource, the estimate and supporting documentation in question is reviewed by a suitable qualified independent Competent Persons.

The Company reports its Mineral Resources on an annual basis in accordance with JORC Code 2004 and 2012.

COMPETENT PERSON'S STATEMENT

The information in this report that relates to all Mineral Resources (other than ML22934 Groundrush) is based on information compiled by consultant geologist Mr Michael Thomson of MiGeo Enterprise Pty Ltd. Mr Thomson is a member of the Australasian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined in the December 2004 edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code). Mr Thomson consents to the inclusion in this report of the matters based on his information in the form and context in which they appear. This information was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported.

The information in this report that relates to the Mineral Resource for ML22934 Groundrush is based on information compiled Mr Brook Ekers, a Competent Person who is a full-time employee of Northern Star Resources Limited. Mr Ekers is a member of the Australian Institute of Geoscientists and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration 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 (JORC Code). Mr Ekers consents to the inclusion in this report of the matters based on his information in the form and context in which they appear.

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Table 3: Schedule of Mineral Tenements - Northern Territory

Tenement	Name	Status	Interest	Registered Holder
EL8797	Gamma	Granted	60%	Tanami (NT) Pty Ltd
EL9763	Red Hills	Granted ¹	60%	Tanami (NT) Pty Ltd
EL9843	Chapmans Hill	Granted	60%	Tanami (NT) Pty Ltd
EL10355	Red Hills North	Granted ²	60%	Tanami (NT) Pty Ltd
EL10411	Tanami Downs North	Granted ²	60%	Tanami (NT) Pty Ltd
EL22061	Farrands Hill South	Granted	60%	Tanami (NT) Pty Ltd
EL22229	Question Mark Bore East	Granted ²	60%	Tanami (NT) Pty Ltd
EL22378	Question Mark Bore Far	Granted ²	60%	Tanami (NT) Pty Ltd
EL23342	Aperta Far East	Granted	60%	Tanami (NT) Pty Ltd
EL26925	Goanna 2	Granted	60%	Tanami (NT) Pty Ltd
EL26926	Black Hills 2	Granted	60%	Tanami (NT) Pty Ltd
EL28282	Suplejack	Granted	60%	Tanami (NT) Pty Ltd
EL28474	Rushmore	Granted	60%	Tanami (NT) Pty Ltd
EL28613	Gamma East	Withdrawn ³	60%	Tanami (NT) Pty Ltd
ELA32149	Gamma East	Application ³	60%	Tanami (NT) Pty Ltd
ML22934	Groundrush	Granted	60%	Tanami (NT) Pty Ltd
MLS119	Reward	Granted	60%	Tanami (NT) Pty Ltd
MLS120	No.1 South	Granted	60%	Tanami (NT) Pty Ltd
MLS121	No.2 South	Granted	60%	Tanami (NT) Pty Ltd
MLS122	No.3 South	Granted	60%	Tanami (NT) Pty Ltd
MLS123	No.4 South	Granted	60%	Tanami (NT) Pty Ltd
MLS124	No.1 North	Granted	60%	Tanami (NT) Pty Ltd
MLS125	No.2 North	Granted	60%	Tanami (NT) Pty Ltd
MLS126	No.3 North	Granted	60%	Tanami (NT) Pty Ltd
MLS127	No.4 North	Granted	60%	Tanami (NT) Pty Ltd
MLS128	No.5 North	Granted	60%	Tanami (NT) Pty Ltd
MLS129	No.6 North	Granted	60%	Tanami (NT) Pty Ltd
MLS130	East Block	Granted	60%	Tanami (NT) Pty Ltd
MLS131	No. 5 South	Granted	60%	Tanami (NT) Pty Ltd
MLS132	No. 6 South	Granted	60%	Tanami (NT) Pty Ltd
MLS133	South East Block	Granted	60%	Tanami (NT) Pty Ltd
MLS153	Tanami Extended	Granted	60%	Tanami (NT) Pty Ltd
MLS167	Matilda	Granted	60%	Tanami (NT) Pty Ltd
MLS168	Enterprise	Granted	60%	Tanami (NT) Pty Ltd
MLS180	Molech	Granted	60%	Tanami (NT) Pty Ltd

¹ Renewal lodged 10 July 2019.

² Renewals lodged 22 May 2019.

³ Application for EL28613 withdrawn and replaced with new application for same ground with ELA 32149