



ASX RELEASE

20 August 2019

ASX: MGV

High-Grade Gold Intersected at Lena and Mainland, Cue Project

- High-grade gold intercepts returned from RC drilling at Lena highlight potential at depth including:
 - 1m @ 25.7g/t Au from 110m down hole (19MORC014) and;
 - 24m @ 3.2g/t Au from 140m down hole including:
 - 4m @ 13.1g/t Au from 151m including:
 - 1m @ 42.8g/t Au from 153m
- Both high-grade intercepts are below the current JORC resource and highlight the potential to extend the resource at depth
- Hole 19MORC012 collared 110m north along strike from Break of Day intersected:
 - 1m @ 8.0g/t Au from 26m down hole
- Three RC pre-collars have now been completed at Lena and diamond drilling has commenced
- High-grade gold also intersected at Mainland including:
 - 3m @ 5.4g/t Au from 74m down hole (19MORC008)

Musgrave Minerals Ltd (ASX: **MGV**) ("Musgrave" or "the Company") is pleased to report highly encouraging assay results from drilling at the Lena deposit and the initial drilling at the Mainland Prospect, both part of the Company's flagship Cue Gold Project in Western Australia's Murchison district (*Figure 1*).

Assays from the first reverse circulation (RC) holes drilled in the current program at Lena have been received, as have the first assays from Musgrave's maiden drilling program at Mainland, a recently acquired tenement holding that has produced abundant alluvial gold but where only minimal basement exploration has been conducted. The results are presented in Table 1a.

The Lena deposit has an existing JORC 2012 resource of 2,682kT @ 1.77g/t Au for 153koz Au (see *MGV ASX release 15 October 2018, "Annual Report"*) which is only estimated to a maximum vertical depth of 160m at Lena Main lode (*Figure 2*).

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The Lena deposit consists of a number of gold lodes, with some having significant high-grade potential at depth below the existing resource, as demonstrated by these new assay results. Diamond drilling has commenced at Lena to test for further extensions to the mineralisation below the existing resource.

Musgrave Managing Director Rob Waugh said *“These are exciting results at Lena and Mainland. At Mainland, the initial program has returned strong results and further drilling is planned.”*

The upside at Lena is significant with drilling confirming high-grade gold mineralisation below the existing resource that remains open. Our reinterpretation of the geology and shoot control has highlighted the excellent potential to extend the current Lena resource and we look forward to further strong results as drilling continues.”

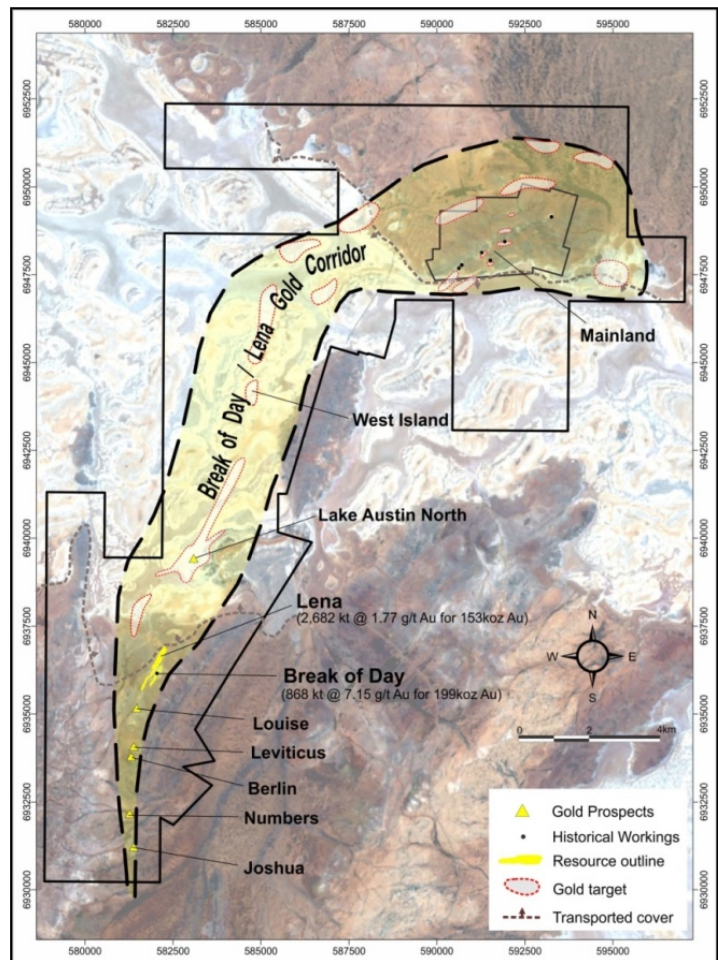


Figure 1: Prospect location plan

Lena

Three RC drill holes were completed at Lena with drill hole 19MORC014 intersecting two separate high-grade lodes (Figure 2). Both high-grade intercepts are below the existing resource estimate. Results include **1m @ 25.7g/t Au** from 110m down hole which is approximately 50m vertically beneath the existing resource on the eastern high-grade lode (Figure 4). A second high-grade intercept of **24m @ 3.2g/t Au** from 140m down hole including **4m @ 13.1g/t Au** from 151m including **1m @ 42.8g/t Au** from 153m is approximately 5m below the existing resource boundary on the main Lena lode (Figure 3 and 4) and 50m below historical drilling on this cross-section. The mineralisation is open at depth on both lodes.

The new drilling supports the re-interpretation of historical drill data and has identified a high-grade southerly plunging shoot on the main lode that remains open at depth below the current JORC resource. A number of historical high-grade diamond core intercepts lie within this interpreted extension of the high-grade gold lode (Figure 3) as reported in ASX release 12 July 2019, “Opportunity to Extend Lena High-Grade Resource at Cue”.

Drill hole 19MORC012 drilled to test Lena but collared 110m along strike to the north of Break of Day intersected **3m @ 3.9g/t Au** from 25m down hole including **1m @ 8.0g/t Au** from 26m (Figure 2). This is interpreted be a potential northern extension to Break of Day and will require further follow-up drilling.



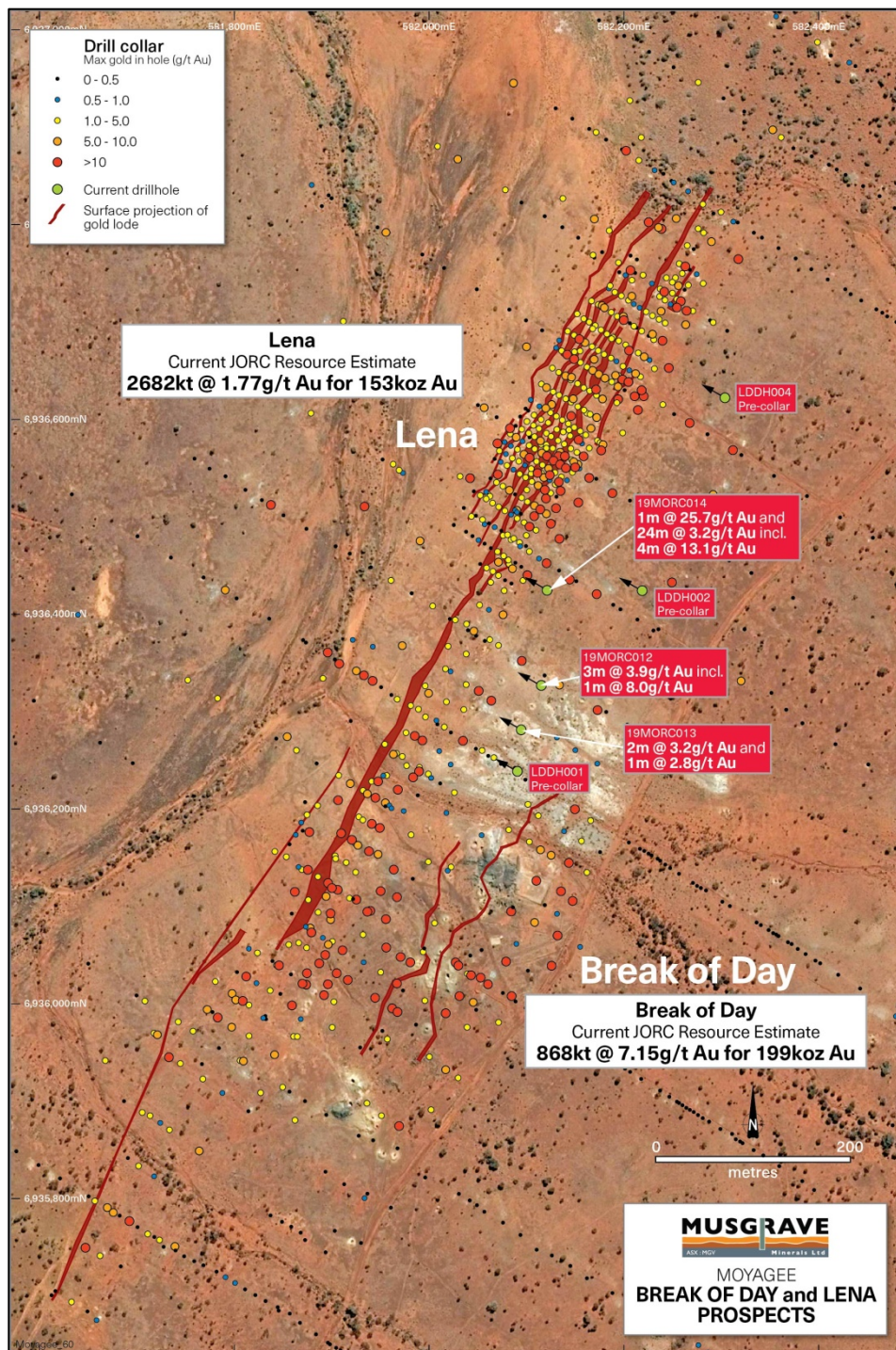


Figure 2: Lena and Break of Day drill hole location plan

The current program at Lena consists of combination of RC drilling (shallow holes and pre-collars) and diamond drilling to better define and infill these high-grade gold shoots below the existing resource. The aim of the program is to improve the geological confidence in the continuity of the mineralisation by reducing the drill spacing to enable an upgrade of the Lena resource estimate.



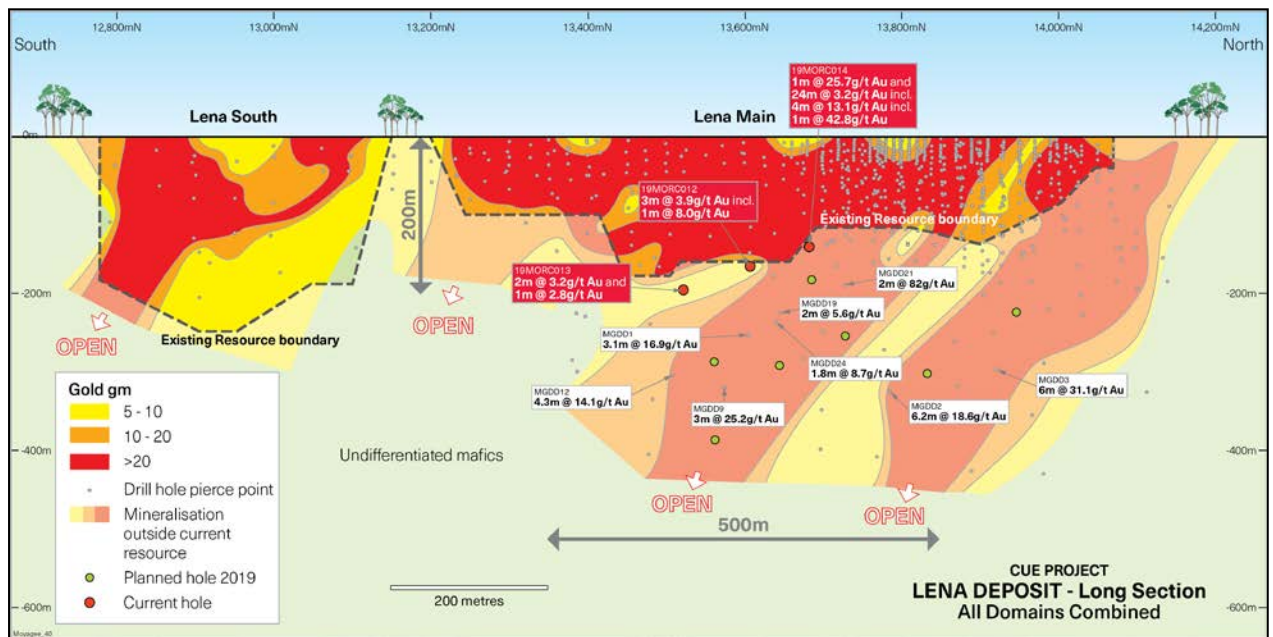


Figure 3: Lena schematic long section showing combined lodes and planned holes. A long section is a vertical section along the plane of the strike of the deposit

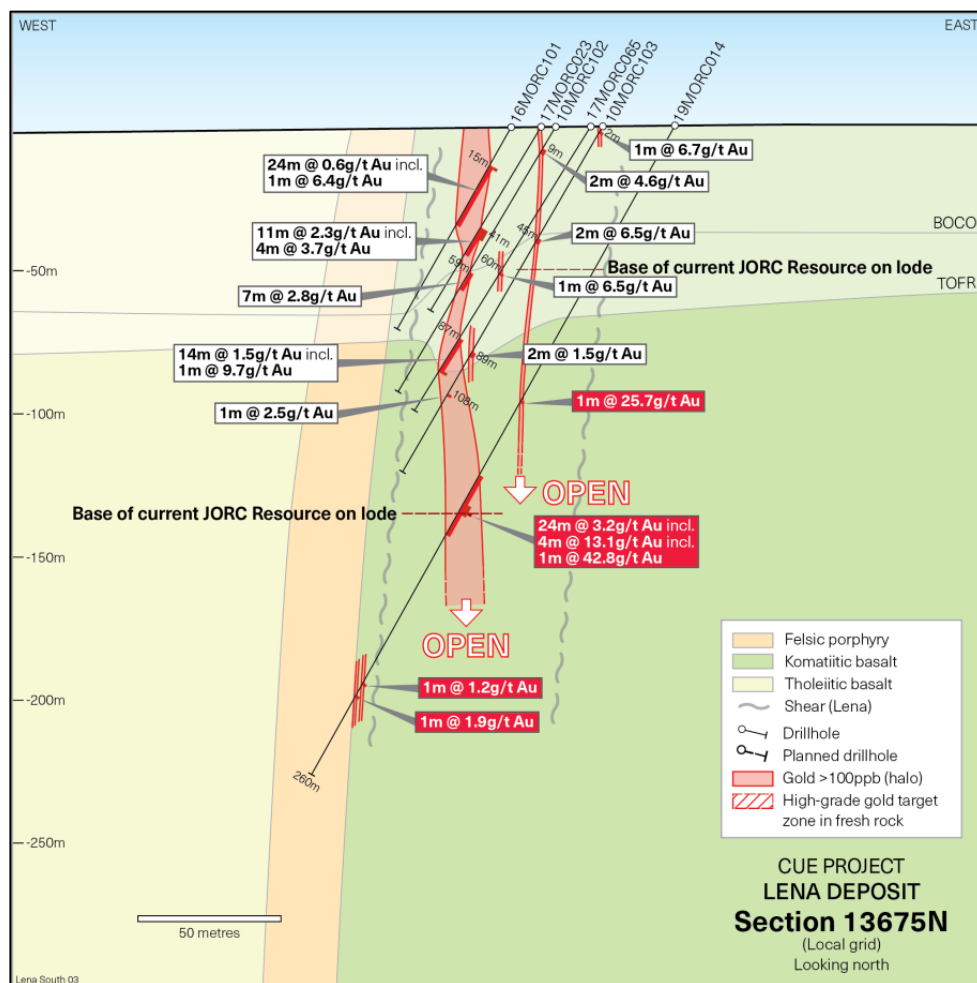


Figure 4: Cross section 13675N at Lena showing drilling. A cross section is a vertical plane sliced perpendicular to the interpreted strike of the mineralisation



Mainland

Musgrave completed the first phase of RC drilling at Mainland testing below three sets of historical gold workings. Eleven holes were drilled for 1,373m (*Figure 5*).

Best results include:

- 3m @ 5.4g/t Au from 74m down hole (19MORC008) testing below the old workings at the Consols Prospect

Follow-up drilling at Consols is currently being planned. The remaining high priority targets at Mainland are blind to surface and are yet to be drill tested. These targets will be initially tested with aircore drilling in Q4, 2019.

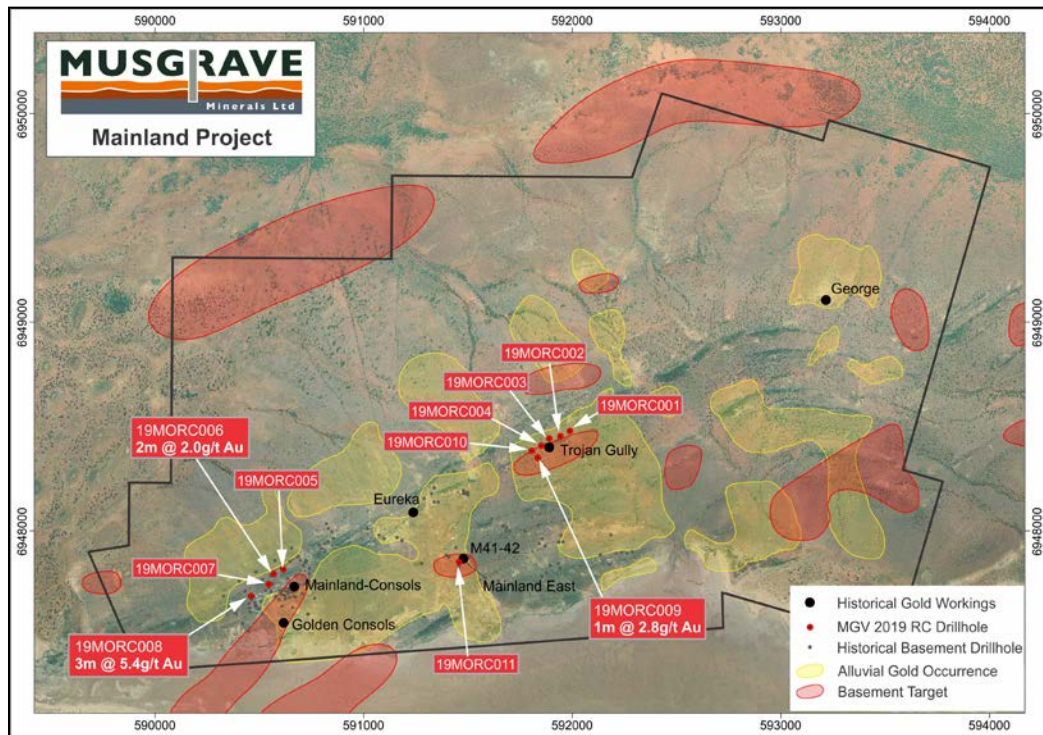


Figure 5: Plan of Mainland area showing historical gold workings, alluvial gold distribution, targets and current RC drill hole collars

Ongoing Exploration

- An RC / diamond drilling program at Lena has commenced with further results expected in mid-September. A minimum of seven holes will be drilled with the program expected to take two months to complete.
- Aircore drilling of new undercover targets at Mainland is planned for early in Q4.
- Results from a recently completed regional airborne magnetic survey at Lake Austin North are being integrated with the geological and assay data from drilling and a detailed structural analysis, to prioritise targets for the next phase of follow-up drilling. There is significant evidence of a large gold system at Lake Austin North and this analysis will allow a focused approach to the next phase of drilling currently planned for Q4.
- A \$150,000 2019-20, Government Co-funded Drilling Grant will partially fund the next phase of drilling at Lake Austin North, which is scheduled to commence in Q4 this year.
- Development studies on the Break of Day and Lena gold deposits to evaluate options to optimise cash flow and maximise shareholder returns are ongoing.



THE CUE PROJECT

The Cue Project (“the Project”) is located in the Murchison district of Western Australia, with key tenure wholly owned by Musgrave (Figure 6). The Company has defined a +28km-long prospective gold corridor that hosts the Break of Day and Lena gold resources (Break of Day hosts 868kT @ 7.15g/t Au for 199koz Au and Lena 2,682kT @ 1.77g/t Au for 153koz Au; see *MGV ASX release 15 October 2018, “Annual Report”*) and the new Lake Austin North gold discovery.

The Company believes there is significant potential to extend existing mineralisation and discover new gold deposits within the Project area, as demonstrated by the recent drilling success at Break of Day, Lena and Lake Austin North. Musgrave’s intent is to investigate options to best develop a low-cost operation, capable of delivering strong financial returns for its shareholders. Gold deposits commonly form in camps and exploration is continuing on multiple targets with the aim to define sufficient resources to enable a profitable stand-alone gold operation.

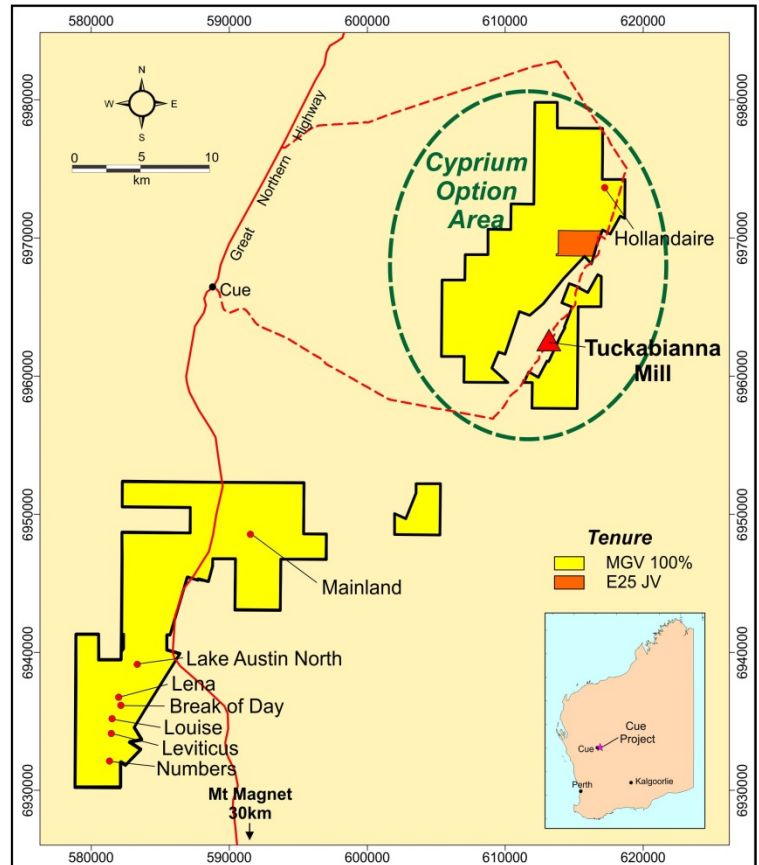


Figure 6: Cue Project location plan and tenure

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About Musgrave Minerals

Musgrave Minerals Limited is an active Australian gold and base metals explorer. The Cue Project in the Murchison region of Western Australia is an advanced gold and copper project. Musgrave has had significant exploration success at Cue with the ongoing focus on increasing the gold and copper resources through discovery and extensional drilling to underpin studies that will demonstrate a viable path to development in the near term. Musgrave also holds a large exploration tenement package in the Ni-Cu-Co prospective Musgrave Province in South Australia.

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Additional JORC Information

Further details relating to the information provided in this release can be found in the following Musgrave Minerals' ASX announcements dated:

- 30 July 2019, "Quarterly Activities and Cashflow Report"
- 12 July 2019, "Opportunity to Extend Lena High-Grade Resource at Cue"
- 4 July 2019, "Drilling commences at newly acquired Mainland Prospect, Cue"
- 28 May 2019, "Scout Drilling Extends Gold Zone to >3km at Lake Austin North"
- 1 May 2019, "Drilling at A-Zone Continues to Deliver Thick, High-Grade Gold Intersections"
- 6 March 2019, "Musgrave Secures More Key Gold Tenure at Cue"
- 3 December 2018, "Diamond Drilling Confirms Significant Gold Discovery at Lake Austin North"
- 15 October 2018, "Annual Report"
- 16 August 2017, "Further Strong Gold Recoveries at Lena"
- 14 July 2017, "Resource Estimate Exceeds 350koz Au"
- 6 July 2017, "Excellent Gold Recoveries Achieved from Initial Metallurgical Test Work at Lena"
- 16 June 2017, "More Gold Intersected Near Surface at Lena"
- 6 June 2017, "High Grade Gold Intersected Near Surface at Lena"
- 24 May 2017, "High Gold Grades Continue at Break of Day and Lena"
- 20 April 2017, "Excellent High Grade Gold Hits at Break of Day and Lena"
- 18 April 2017, "More High Grade Gold Results at Lena"
- 3 April 2017, "Strong Gold Results Continue at Break of Day and Lena"
- 17 March 2017, "Drilling Extends High Grade Gold at Break of Day and Lena"
- 30 January 2017, "Diamond Drilling Confirms High Grade Gold at Break of Day and Extends High Grade Gold at Lena"

Competent Person's Statement

Exploration Results

The information in this report that relates to Exploration Targets and Exploration Results is based on information compiled and/or thoroughly reviewed by Mr Robert Waugh, a Competent Person who is a Fellow of the Australasian Institute of Mining and Metallurgy (AusIMM) and a Member of the Australian Institute of Geoscientists (AIG). Mr Waugh is Managing Director and a full-time employee of Musgrave Minerals Ltd. Mr Waugh has sufficient experience that 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'. Mr Waugh 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

This document may contain certain forward-looking statements. Forward-looking statements include, but are not limited to statements concerning Musgrave Minerals Limited's (Musgrave's) current expectations, estimates and projections about the industry in which Musgrave operates, and beliefs and assumptions regarding Musgrave's future performance. When used in this document, words such as "anticipate", "could", "plan", "estimate", "expects", "seeks", "intends", "may", "potential", "should", and similar expressions are forward-looking statements. Although Musgrave believes that its expectations reflected in these forward-looking statements are reasonable, such statements are subject to known and unknown risks, uncertainties and other factors, some of which are beyond the control of Musgrave and no assurance can be given that actual results will be consistent with these forward-looking statements.



Table 1a: Summary of New Significant MGV Drill Assay Intervals

Drill Hole ID	Drill Type	Prospect	Sample Type	From (m)	Interval (m)	Au (g/t)
19MORC006	RC	Mainland Consols	Individual 1m's	77	2	2.0
19MORC008	RC	Mainland Consols	Individual 1m's	74	3	5.4
19MORC009	RC	Mainland Trojan Gully	Individual 1m's	25	1	2.8
19MORC012	RC	Break of Day	Individual 1m's	25	3	3.9
			Including	26	1	8.0
19MORC013	RC	Lena	Individual 1m's	183	1	1.9
			Individual 1m's	209	2	3.2
			Individual 1m's	223	1	1.8
			Individual 1m's	240	1	2.0
			Individual 1m's	251	1	2.8
19MORC014	RC	Lena	Individual 1m's	110	1	25.7
			Individual 1m's	140	24	3.2
			Including	151	4	13.1
			Including	153	1	42.8

Table 1b: Summary of All New MGV Drill Collars

Drill Hole ID	Drill Type	Prospect	Easting (m)	Northing (m)	Azimuth (deg)	Dip (deg)	RL (m)	Total Depth (m)
19MORC001	RC	Mainland Trojan Gully	591988	6948480	140	-60	432	83
19MORC002	RC	Mainland Trojan Gully	591943	6948456	140	-60	431	102
19MORC003	RC	Mainland Trojan Gully	591889	6948444	135	-60	430	102
19MORC004	RC	Mainland Trojan Gully	591851	6948410	140	-60	430	82
19MORC005	RC	Mainland Consols	590618	6947819	140	-60	435	202
19MORC006	RC	Mainland Consols	590571	6947797	140	-60	434	202
19MORC007	RC	Mainland Consols	590547	6947748	140	-60	433	202
19MORC008	RC	Mainland Consols	590465	6947691	140	-60	430	192
19MORC009	RC	Mainland Trojan Gully	591835	6948352	148	-60	430	82
19MORC010	RC	Mainland Trojan Gully	591806	6948386	140	-60	431	62
19MORC0011	RC	Mainland M41-42	591459	6947852	325	-60	420	62
19MORC012	RC	Lena Break of Day	582115	6936327	300	-60	416	219
19MORC013	RC	Lena	582250	6936433	300	-60	416	280
19MORC014	RC	Lena	582311	6936569	300	-60	416	260
LDDH001	RC Pre-collar	Lena	582091	6936239	300	-60	416	120
LDDH002	RC Pre-collar	Lena	582218	6936425	300	-60	416	120
LDDH004	RC Pre-collar	Lena	582203	6936622	300	-60	414	120

Notes to Tables 1a & 1b

1. An accurate dip and strike and the controls on mineralisation are only interpreted and the true width of the mineralisation are unconfirmed at this time
2. In RC drilling individual samples are collected and analysed at 1m intervals
3. All samples are analysed using a 50g fire assay with ICP-MS (inductively coupled plasma - mass spectrometry) finish gold analysis (0.005ppm detection limit) by Genalysis-Intertek in Maddington, Western Australia
4. g/t (grams per tonne), ppm (parts per million), ppb (parts per billion), NSI (no significant intercept)
5. Intersections are generally calculated over intervals >1.0g/t Au where zones of internal dilution are not weaker than 10m < 0.5g/t Au.
6. Drill holes not reported in Table 1a above all returned no significant result above 1m @ 1g/t Au.
7. Drill type; AC = Aircore, RC = Reverse Circulation, Diam = Diamond
8. Coordinates are in GDA94, MGA Z50

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JORC TABLE 1

Section 1 Sampling Techniques and Data

Criteria	Explanation	Commentary
Sampling techniques	<i>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.</i>	Historical sampling criteria are unclear for pre 2009 drilling. MGVS sampling is undertaken using standard industry practices including the use of duplicates and standards at regular intervals. All Reverse circulation (RC) samples are split to 1-3kg in weight through a cyclone splitter on the drill rig for 1m drill intervals. A Thermo Scientific Niton GoldD XL3+ 950 Analyser is available on site to aid geological interpretation. No XRF results are reported.
	<i>Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.</i>	All co-ordinates are in UTM grid (GDA94 Z50) and drill hole collars have been surveyed by differential GPS to an accuracy of 0.01m.
	<i>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 (eg 'reverse circulation drilling was used to obtain 1m samples from which 3kg was pulverised to produce a 30g 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 (eg submarine nodules) may warrant disclosure of detailed information.</i>	Reverse circulation (RC) drilling was used to obtain 1m samples from which 3kg was cyclone split and pulverised to produce a 50g charge for fire assay with ICP-MS finish for gold. Historical sampling criteria are unclear for pre 2009 drilling. MGV RC samples were collected as 6m composites for all drill holes in the current program. One metre individual samples are immediately submitted for analysis where a high probability of mineralisation occurs (e.g. quartz vein lode or massive sulphide). All one metre samples are split to 1-3kg in weight through a cyclone splitter which is air blasted clean at the end of each 6m rod. Individual samples weigh less than 3kg to ensure total preparation at the laboratory pulverization stage. The sample size is deemed appropriate for the grain size of the material being sampled. Samples are sent to the Genalysis – Intertek laboratory in Maddington. Samples are pulverized to 85% passing -75um and four metre composite samples are analysed using a 50g fire assay with ICP-MS (inductively coupled plasma - mass spectrometry) finish gold analysis (0.005ppm detection limit).
Drilling techniques	<i>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).</i>	RC drilling was used in this MGVS program. Historical drilling was a combination of RAB, aircore, RC and diamond at Lena. MGV undertook this RC drilling program utilising Challenge Drilling with a 5 5/8 inch hammer. A total of more than 172 RC holes and 7 diamond drill holes have been drilled by MGV at Break of Day & Lena. Historically Silver Lake Resources Ltd (SLR) undertook RC drilling at Break of Day and Lena between 2010 and 2013 with a number of companies intermittently drilling prior to 2009 including Perilya Mines Ltd (1991-2007). A combination of historical RAB, aircore, RC and diamond drilling has been utilised by multiple companies over a thirty year period across the broader project area.
Drill sample recovery	<i>Method of recording and assessing core and chip sample recoveries and results assessed.</i>	RC bulk sample weights are observed and noted in a field Toughbook computer by MGV field staff.
	<i>Measures taken to maximise sample recovery and ensure representative nature of the samples.</i>	MGV contracted drillers use industry appropriate methods to maximise sample recovery and minimise downhole contamination including using compressed air to maintain a dry sample in RC drilling. A cyclone splitter was utilised to split 1-3kg of sample by weight. The splitter is air blasted clean at the end of each 6m rod. Historical sampling recovery is unclear for pre 2009 drilling.
	<i>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.</i>	No significant sample loss or bias has been noted in current drilling or in the historical reports or from other MGV drill campaigns.
Logging	<i>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.</i>	All geological, structural and alteration related observations are stored in the database.
	<i>Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.</i>	Logging of lithology, structure, alteration, mineralisation, colour and other features of core or RC chips is undertaken on a routine 1m basis or on geological intervals for diamond core.
	<i>The total length and percentage of the relevant intersections logged.</i>	All drill holes are logged in full on completion.



<i>Sub-sampling techniques and sample preparation</i>	<i>If core, whether cut or sawn and whether quarter, half or all core taken.</i>	All historical diamond drilling was cut with a diamond saw and half core sampled. Dominantly NQ at Lena.
	<i>If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.</i>	RC samples are routinely cyclone split and kept dry by the use of pressurised air. Very minimal wet sampling occurred and none during this program.
	<i>For all sample types, the nature, quality and appropriateness of the sample preparation technique.</i>	Drill sample preparation and base metal and precious metal analysis is undertaken by a registered laboratory (Genalysis – Intertek). Sample preparation by dry pulverisation to 85% passing 75 micron.
	<i>Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.</i>	MGV field QC procedures involve the use of certified reference standards (1:50), duplicates (~1:30) and blanks (1:50) at appropriate intervals for early stage exploration programs. High, medium and low gold standards are used. Historical QA/QC procedures are unclear for pre 2009 drilling.
	<i>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.</i>	Sampling is carried out using standard protocols and QAQC procedures as per industry practice. Duplicate samples are inserted (~1:30) and more frequently when in high-grade gold veins, and routinely checked against originals. Duplicate sampling criteria is unclear for historical pre 2009 drilling. Historical QA/QC procedures are unclear for pre 2009 drilling.
	<i>Whether sample sizes are appropriate to the grain size of the material being sampled.</i>	Sample sizes are considered appropriate for grain size of sample material to give an accurate indication of gold mineralisation. Samples are collected from full width of sample interval to ensure it is representative of samples lithology.
<i>Quality of assay data and laboratory tests</i>	<i>The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.</i>	One metre individual samples are analysed through potential gold mineralised zones. Analysis is by 50g fire assay with ICP-MS finish for gold. On six metre composite samples, analysis is undertaken by Intertek-Genalysis (a registered laboratory), with 50g fire assay with ICP-MS finish undertaken for gold. Internal certified laboratory QAQC is undertaken including check samples, blanks and internal standards. This methodology is considered appropriate for base metal mineralisation and gold at the exploration phase.
	<i>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.</i>	No geophysical tools were used to estimate mineral or element percentages. Musgrave utilise a Thermo Scientific Niton GoldD XL3+ 950 Analyser to aid geological interpretation.
	<i>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.</i>	MGV field QC procedures involve the use of certified reference standards (1:50), duplicates (~1:30) and blanks (1:50) at appropriate intervals for early stage exploration programs. Historical QA/QC procedures are unclear for pre 2009 drilling.
<i>Verification of sampling and assaying</i>	<i>The verification of significant intersections by either independent or alternative company personnel.</i>	MGV samples are verified by the geologist before importing into the main MGV database (Datashed).
	<i>The use of twinned holes.</i>	No twin holes have been drilled by Musgrave Minerals Ltd during this program.
	<i>Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.</i>	Primary data is collected using a standard set of templates. Geological sample logging is undertaken on one metre intervals for all RC drilling with colour, structure, alteration and lithology recorded for each interval. Data is verified before loading to the database. Geological logging of all samples is undertaken.
	<i>Discuss any adjustment to assay data.</i>	No adjustments or calibrations are made to any assay data reported.
<i>Location of data points</i>	<i>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.</i>	All maps and locations are in UTM grid (GDA94 Z50) and have been surveyed or measured by hand-held GPS with an accuracy of >±5 metres. Down hole surveys are undertaken using the axis digital clinometer down hole tool in either continuous reading mode or at regular 20m intervals.
	<i>Specification of the grid system used.</i>	Drill hole and sample site co-ordinates are in UTM grid (GDA94 Z50) and converted from local grid references.
	<i>Quality and adequacy of topographic control.</i>	Historical drill hole collars and RL's are surveyed by qualified surveyors in most instances in the resource areas. Differential GPS is used to survey drill hole collars with an accuracy of +/- 0.01 metre including RL's.



<i>Data spacing and distribution</i>	<i>Data spacing for reporting of Exploration Results.</i>	Variable drill hole spacings are used to adequately test targets and are determined from geochemical, geophysical and geological data together with historical drilling information. At Lena a general pattern of 25-50m drill spacings on 25m spaced sections is underway. Historical drill hole spacings at Break of Day and Lena are variable although Perilya, SLR and MGV drilled a number of holes at approximately 12.5m, 25m or 50m sections from 1991-2012.
	<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>	There is a current JORC 2012 Mineral Resource at Break of Day and Lena defined by Musgrave Minerals Ltd. The Mineral Resources estimate at Break of Day and Lena was prepared and disclosed in accordance with the 2012 Edition of the Australian Code of Reporting of Mineral Resources and Ore Reserves (JORC 2012). For further details refer to MGV ASX announcement 14 July 2017: "Resource Estimate Exceeds 350koz Au".
	<i>Whether sample compositing has been applied.</i>	One metre individual samples routinely split by the drill rig cyclone are undertaken for all RC drill holes but only submitted for analysis where there is a high probability of mineralisation from geological interpretation of the drill samples. Six metre sample compositing has also been undertaken for all drill holes in the current program. Composite sampling is undertaken using a stainless steel spear (trowel) at one metre samples and combined in a calico bag. Historical QA/QC procedures are unclear for pre 2009 drilling.
<i>Orientation of data in relation to geological structure</i>	<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>	Drilling is designed to cross the mineralisation as close to perpendicular as possible. Most drill holes are designed at a dip of approximately -60 degrees. The mineralisation at Break of Day and Lena is interpreted to dip between 70-90 degrees to the west. An accurate dip and strike of mineralisation at Mainland is unknown at this time. Drill intersections at Break of Day and Lena are interpreted to be between 50-80% of the drill intersection width.
	<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>	No orientation based sampling bias is known at this time.
<i>Sample security</i>	<i>The measures taken to ensure sample security.</i>	Chain of custody is managed by MGV internal staff. Drill samples are stored on site and transported by a licenced reputable transport company to a registered laboratory in Perth (Genalysis-Intertek at Maddington). When at the laboratory samples are stored in a locked yard before being processed and tracked through preparation and analysis (Lab-Trak system).
<i>Audits or reviews</i>	<i>The results of any audits or reviews of sampling techniques and data.</i>	During the resource estimate an external review of the geological interpretation, data and modelling techniques was undertaken by CSA global.

Section 2 Reporting of Exploration Results

Criteria	Explanation	Commentary
<i>Mineral tenement and land tenure status</i>	<i>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.</i>	Musgrave Minerals has now secured 100% of the Moyagee Project area (see MGV ASX announcement 2 August 2017: "Musgrave Secures 100% of Key Cue Tenure"). The Break of Day and Lena prospects are located on granted mining lease M21/106 and the primary tenement holder is Musgrave Minerals Ltd. The Mainland prospects are on tenements P21/731, 732, 735, 736, 737, 739, 741 where MGV has an option to acquire 100% of the tenements. Purple Rain is located on M58/224 and the primary tenement holder is Musgrave Minerals Ltd. The Cue project tenements consist of 33 licences (Lena and Break of Day is on M21/106 and Hollandaire E20/699). The tenements are subject to standard Native Title heritage agreements and state royalties. Third party royalties are present on some individual tenements.
	<i>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.</i>	The tenements are in good standing and no known impediments exist.



<i>Exploration done by other parties</i>	<i>Acknowledgment and appraisal of exploration by other parties.</i>	Historical drilling, soil sampling and geophysical surveys have been undertaken in different areas on the tenements intermittently by multiple third parties over a period of more than 30 years. At Break of Day, Lena and Mainland historical exploration and drilling has been undertaken by a number of companies and at Break of Day and Lena most recently by Silver Lake Resources Ltd in 2009-13 and prior to that by Perilya Mines Ltd from 1991-2007.
<i>Geology</i>	<i>Deposit type, geological setting and style of mineralisation.</i>	Geology comprises typical Archaean Yilgarn greenstone belt lithologies and granitic intrusives. Two main styles of mineralisation are present, typical Yilgarn Archaean lode gold and volcanic massive sulphide (VMS) base metal and gold mineralisation within the Eelya Felsic Complex.
<i>Drill hole Information</i>	<i>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: eastings and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length.</i>	All relevant drill hole information has previously been reported by SLR and MGV. The Perilya drill holes mentioned are referenced in this release.
<i>Data aggregation methods</i>	<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>	Significant assay intervals are recorded above 1g/t Au with a minimum internal interval dilution of 2m @ 0.5g/t Au. No cut-off has been applied to any sampling.
	<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>	No cut-off has been applied to any sampling. Reported intervals are aggregated using individual assays above 1g/t Au with no more than 2m of internal dilution <0.5g/t Au for any interval. Short high-grade intervals are tabulated in Table 1a.
	<i>The assumptions used for any reporting of metal equivalent values should be clearly stated.</i>	No metal equivalent values have been reported.
<i>Relationship between mineralisation widths and intercept lengths</i>	<i>These relationships are particularly important in the reporting of Exploration Results. If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported. 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>	True widths are not confirmed but all drilling is planned close to perpendicular to interpreted targets.
<i>Diagrams</i>	<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>	Diagrams referencing historical data can be found in the body of this report.
<i>Balanced reporting</i>	<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 to avoid misleading reporting of Exploration Results.</i>	All older MGV drilling data has previously been reported. Higher grade historical results are reported selectively in this release to highlight the follow-up areas for priority drilling. All data pierce points and collars are shown in the diagrams within this release.
<i>Other substantive exploration data</i>	<i>Other exploration data, if meaningful and material, should be reported including (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>	All material results from geochemical and geophysical surveys and drilling related to these prospects has been reported or disclosed previously.
<i>Further work</i>	<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>	A range of exploration techniques will be considered to progress exploration including additional surface sampling and drilling.
	<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>	Refer to figures in the body of this announcement.

