



Detailed Magnetics Generate New Gold Targets Close To Window Glass Hill Deposit

Matador Mining Limited (ASX: **MZZ**) (“**Matador**” or the “**Company**”) is pleased to announce the generation of multiple new priority geophysical gold targets proximal to the Window Glass Hill Deposit (“**WGH**”), part of the Company’s 100% owned Cape Ray Gold Project (the “**Project**”). The Project comprises 120 kilometres of continuous strike in the proven, yet under-explored multi-million-ounce Cape Ray Shear gold corridor.

Highlights

- Identification and ranking of eight new priority targets within three kilometres of the WGH Deposit following interpretation of the 2020 detailed ground magnetics program;
- Each of these targets is under shallow (less than 5 metre) till cover and share similar geophysical characteristics to the Angus discovery¹;
- These priority targets will be tested in the coming weeks with power-auger drilling and multi-element geochemistry to increase the probability of success with the planned 2021 diamond drill program;
- Acceleration of the planned 2021 regional geophysics program with a 30 metre line spaced heli-magnetic survey encompassing the central 45 kilometres of the tenement – within trucking distance of the proposed Central Processing Facility²;
- Integration of the planned 2021 accelerated geophysics program and follow-up power-auger pathfinder geochemistry to expedite the generation of additional higher probability drill targets – further augmenting Matador’s Exploration Pipeline; and
- The Company has mobilised its exploration team to site and will commence fieldwork shortly.

Executive Chairman Ian Murray commented:

“It is exciting to see the rapid evolution of exploration targeting tools used by Matador’s exploration team. The Angus discovery in 2020 demonstrated our ability to find new gold mineral systems under cover close to our existing Mineral Resources. The Project has undergone minimal exploration outside the known deposits and our increased understanding of their geophysical, geochemical and structural footprints should result in additional exploration success. We are initially focused on areas that are within trucking distance of the proposed Central Processing Facility², due to the lower economic hurdle, but remain excited about the medium term prospectivity of our wider tenement package.”

¹ ASX announcement 6 October 2020

² ASX announcement 6 May 2020

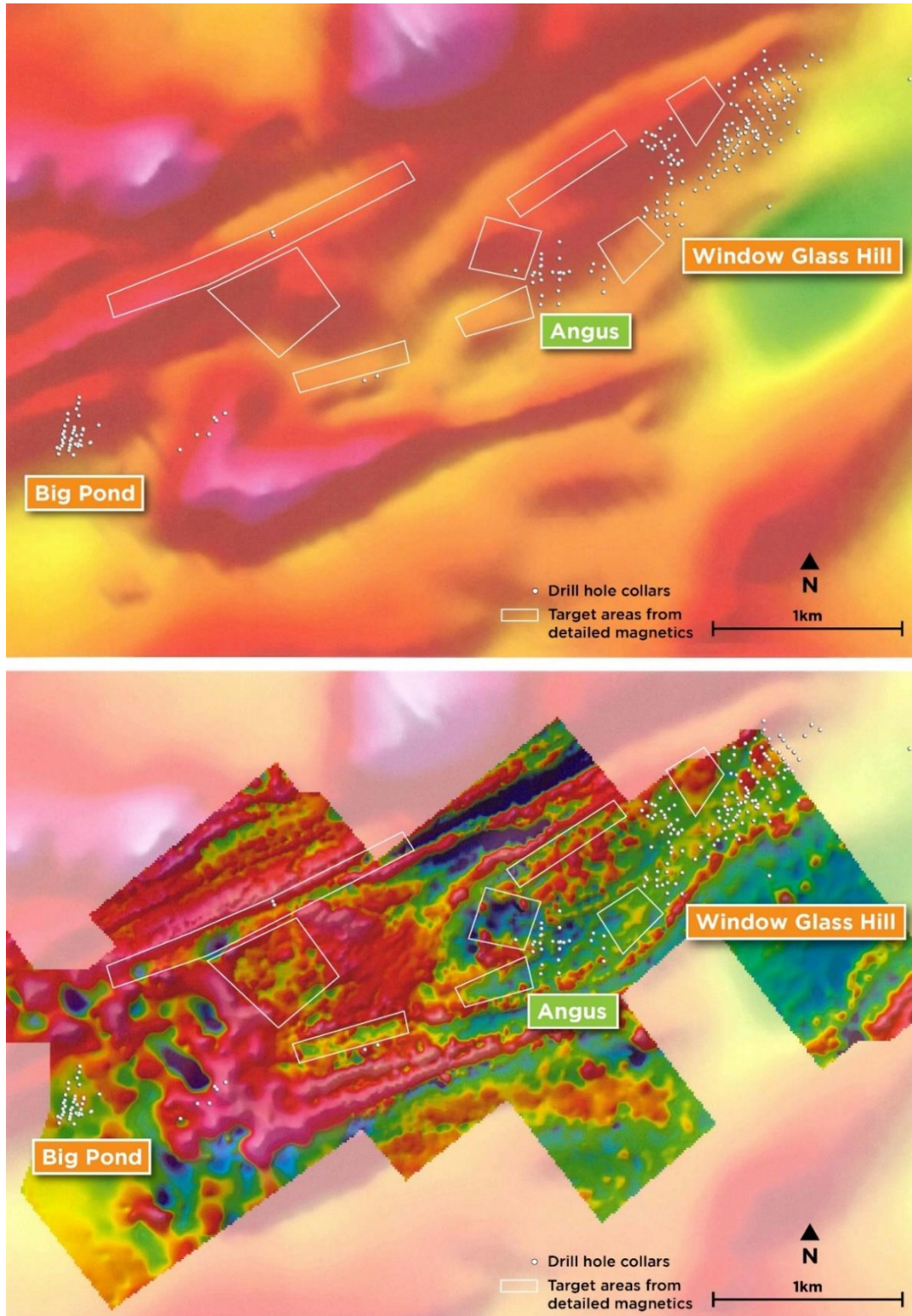


Figure 1: Historic 200 metre-spaced regional aeromagnetic data (top image) and new detailed 40 metre line spaced ground magnetics data acquired in 2020³ (bottom image) for the area between Big Pond and Window Glass Hill. White polygons define untested greenfield and extensional target areas identified by interpreting the detailed magnetics in conjunction with existing surface geochemistry pathfinders. Both images comprise total magnetic intensity data reduced to pole (TMI-RTP).

³ ASX announcement 29 October 2020

How Detailed Magnetics Data Contributed to the Angus Discovery

Detailed, 40 metre-spaced, ground magnetics collected between Big Pond (“BP”) and WGH in 2020 resulted in the identification of a distinctive “demagnetized feature”, or magnetic low (cooler colours), coincident with the higher-grade gold in the core of the WGH Mineral Resource (232Koz Au)⁴. This feature was not evident in the historic, broad spaced, low resolution magnetic data (Figure 1).

A similar anomalous magnetic low was identified one kilometre south-west of WGH, coincident with an IP geophysics chargeability high (interpreted to be associated with disseminated sulphides) and surface gold and pathfinder element anomalies. Drilling of this target in 2020 resulted in the Angus discovery⁵. Analysis of the Angus drill core indicated gold mineralisation is associated with sericite plus clay alteration. This explained the demagnetized features and demonstrated the potential for detailed magnetics data to directly map the alteration relating to gold mineralisation. The vein hosted gold mineralisation, and locally disseminated sulphides observed in the drill core explain both the IP chargeability anomaly and a characteristic broad pathfinder element footprint at Angus.

Several magnetic anomalies with coincident pathfinder element footprints, similar to Angus, have now been identified in the detailed ground magnetics data across the broader WGH Granite intrusion and two kilometres south-west to BP. These have been prioritized for follow-up power-auger geochemistry and diamond drilling in 2021 (Figure 1).

This early success has provided Matador with confidence in the “structural-geochemistry approach” to targeting gold at the Project. Interpretation of detailed magnetic data provides the structural framework for the exploration targeting model and power-auger multi-element pathfinder geochemistry refines the basement targets for follow-up diamond drilling. This approach is expected to deliver faster, cheaper and more effective exploration targeting and assessment across the 120km strike length of the Project.

2021 Detailed Aeromagnetic Survey

Following the exploration targeting success based on detailed magnetic surveys and geochemistry in 2020, Matador is now mobilising a detailed (30 metre line-spaced) heli-magnetic survey covering the area between BP and Benton Five (Figure 2). Airborne magnetic data capture is quicker and cheaper (on a line-kilometre basis) than ground-based acquisition, providing Matador with rapid delivery of a crucial detailed exploration targeting dataset. The proposed survey area covers the high priority central 45 kilometers of the Project strike length surrounding the proposed Central Processing Facility⁴. A second phase of aeromagnetic data acquisition, covering most of the north-eastern portion of Matador’s tenement package, is planned for late 2021 or 2022.

⁴ ASX announcement 6 May 2020 (Mineral Resource table appended below)

⁵ ASX announcement 6 October 2020

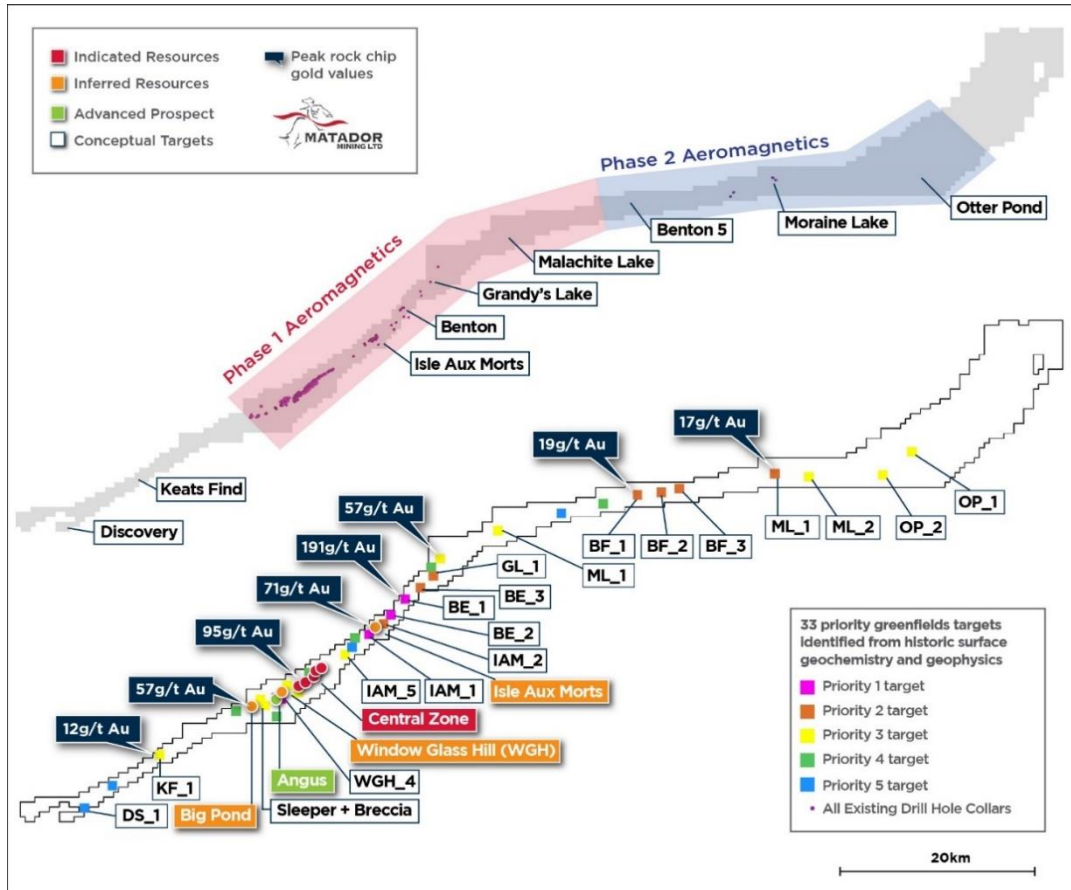
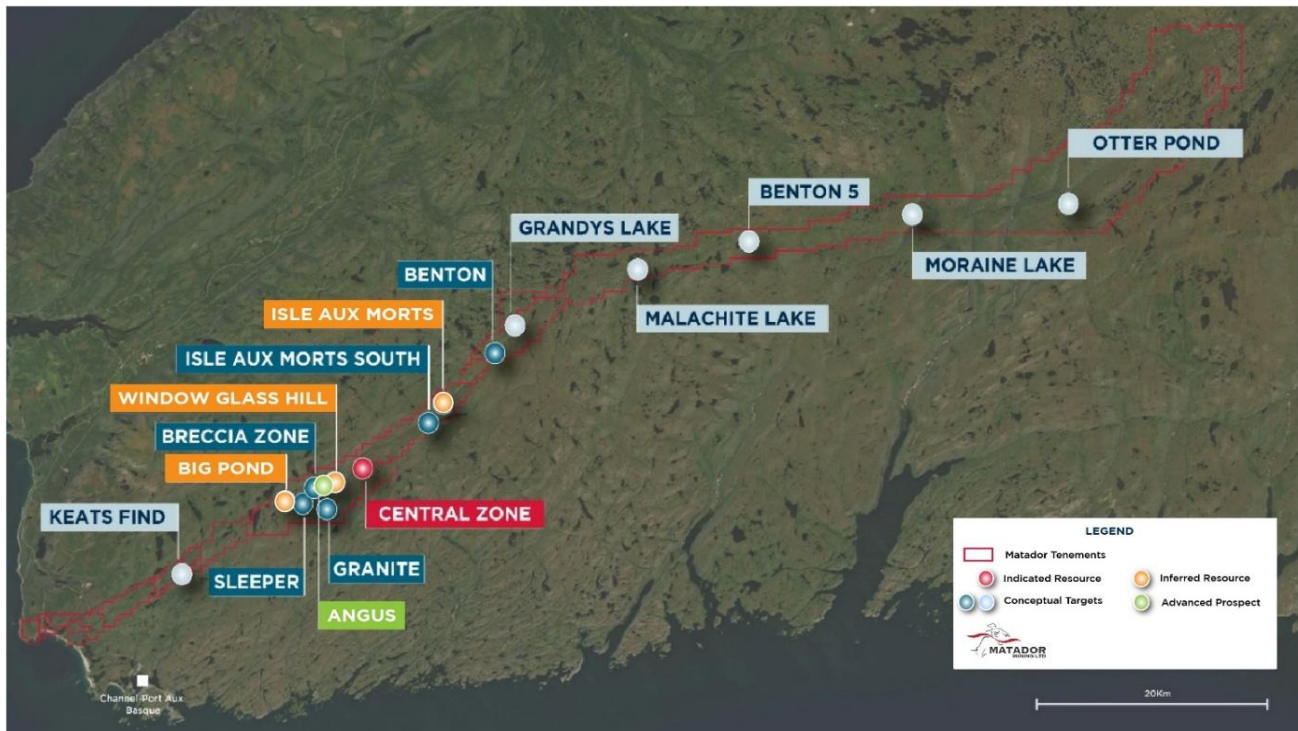


Figure 2: Proposed extent of Phase 1 and Phase 2 detailed (30 metre line-spaced) heli-magnetic surveys at Cape Ray, juxtaposed with Matador's 33 prioritized exploration targets and existing Mineral Resource locations

About the Company

Matador Mining Limited (ASX: MZZ) is a gold exploration company with tenure covering 120 kilometres of continuous strike along the highly prospective, yet largely under-explored Cape Ray Shear in Newfoundland, Canada. The Company released a Scoping Study which outlined an initial potential seven year mine life, with a forecast strong IRR (51% post Tax), rapid payback (1.75 year) and LOM AISC of US\$776/oz Au (ASX announcement 6 May 2020).



This announcement has been authorised for release by the Company's Board of Directors.

To learn more about the Company, please visit www.matadormining.com.au, or contact:

Ian Murray – Executive Chairman

Adam Kiley – Corporate Development

Phone: +61 8 6117 0478

Phone: +61 8 6117 0478

Email: info@matadormining.com.au

Email: info@matadormining.com.au

Reference to Previous ASX Announcements

In relation to the results of the Scoping Study which were announced on 6 May 2020, Matador confirms that all material assumptions underpinning the production target and forecast financial information included in that announcement continue to apply and have not materially changed.

In relation to the Mineral Resource estimate announced on 6 May 2020, the Company confirms that all material assumptions and technical parameters underpinning the estimates in that announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

In relation to the exploration results included in this announcement, the dates of which are referenced, the Company confirms that it is not aware of any new information or data that materially affects the information included in those announcements.

Mineral Resource Estimate –May 2020

Cape Ray Gold Project Summary Mineral Resource																	
Deposit	Cut-off	RL	Indicated					Inferred					Total				
			Tonnes (Mt)	Au (g/t)	Ag (g/t)	Contained Au (Koz)	Contained Ag (Koz)	Tonnes (Mt)	Au (g/t)	Ag (g/t)	Contained Au (Koz)	Contained Ag (Koz)	Tonnes (Mt)	Au (g/t)	Ag (g/t)	Contained Au (Koz)	Contained Ag (Koz)
Z4/41	0.5	>100mRL	2.1	2.83	8	191	545	1.3	1.48	6	61	236	3.4	2.32	7	252	781
	2	<100mRL	0.2	3.10	11	23	77	0.2	2.90	9	17	56	0.4	3.01	10	40	133
Z51	0.5	>200mRL	0.8	4.25	9	103	211	0.0	1.43	5	1	3	0.8	4.18	9	104	214
	2	<200mRL	0.2	4.41	11	32	77	0.1	2.59	3	12	15	0.4	3.71	8	43	92
HZ	0.5	All	0.2	1.11	1	8	8	0.0	0.90	1	0	0	0.2	1.11	1	8	8
PW	0.25	All	-	-	-	-	-	2.2	1.12	4	80	257	2.2	1.12	4	80	257
IAM	0.5	All	-	-	-	-	-	0.8	2.39	2	60	60	0.8	2.39	2	60	60
Big Pond	0.25	All	-	-	-	-	-	0.1	5.30	3	19	12	0.1	5.30	3	19	12
WGH	0.5	All	-	-	-	-	-	4.7	1.55	10	232	1,455	4.7	1.55	10	232	1,455
Total			3.5	3.15	8	356	918	9.4	1.60	7	481	2,094	12.9	2.02	7	837	3,012

Note: Figures have been rounded and rounding errors may apply. Contained metal figures do not take metallurgical recovery into account. Reported cut-offs from Zones 51, 4/41 cover both open-pit resources scenario (0.5g/t Au cut off) and underground scenario (2g/t Au cut off). 2020 resource updates for Zones 4/41, 51, WGH and PW use 2.8t/m³ density.

- All Mineral Resources are completed in accordance with the JORC Code 2012 Edition
- All figures are rounded to reflect appropriate levels of confidence. Apparent differences may occur due to rounding
- Cut-off grade assumptions approximately reflect a US \$1,550 per ounce gold price as per the Cape Ray Scoping Study
- Open Pit Mineral Resources are reported at various cut-off grades to reflect assumed Reasonable Prospects of Eventual Economic Extraction as derived from the Cape Ray Gold Project Scoping Study: Z4/41 - 0.50 g/t Au cut-off above 100mRL; Z51 – 0.5 g/t Au cut-off above 200mRL; HZ, IAM and WGH all reported at 0.5 g/t Au cut-off with no constraint; Big Pond and PW reported at 0.25 g/t Au cut-off with no constraint
- Underground Mineral Resources are reported at a 2.0 g/t Au cut-off grade to reflect assumed Reasonable Prospects of Eventual Economic Extraction as derived from the Cape Ray Gold Project Scoping Study: Z4/41 – 2.0 g/t Au cut-off below 100mRL; Z51 – 2.0 g/t Au cut-off below 200mRL

Competent Person's Statement

The information in this announcement that relates to the Mineral Resource estimate for Zones 4/41 and 51, is based upon information compiled by Mr. Neil Inwood from Sigma Resources Consulting, an independent consultant to Matador Mining Limited. Mr. Inwood is a Fellow of the Australian Institute of Mining and Metallurgy ("AUSIMM") and has sufficient experience which is 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 December 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" (JORC Code 2012). Mr. Inwood consents to the inclusion in the report of the matters based upon the information in the form and context in which it appears.

The information contained in this announcement that relates to Mineral Resource estimate for Zones 4/41 and 51 was undertaken by Mr. Brian Wolfe, an independent consultant to Matador Mining Limited, who is a Member of the Australian Institute of Geoscientists ("AIG"). The classification scheme for Zones 4/41 and 51 was developed by Mr Wolfe and reviewed by Mr Inwood. Mr. Wolfe was engaged as a consultant to Matador Mining Limited and has sufficient experience which is 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 JORC Code 2012. Mr. Wolfe consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

The information contained in this announcement that relates to Mineral Resource estimates for H Zone, Big Pond and IAM at the Cape Ray Project, which was first reported by the Company in an announcement to the ASX on 30 January 2019, is based on, and fairly reflects, information compiled by Mr. Alfred Gillman, an independent consultant to Matador Mining Limited. Mr. Alfred Gillman is a Fellow and Chartered Professional of the AUSIMM and was engaged as a consultant to Matador Mining Limited to complete the JORC (2012) resource. Mr. Gillman has sufficient experience which is 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 JORC Code 2012. Mr. Gillman consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

The information contained in this announcement that relates to the 2020 grade estimation for Window Glass Hill and PW Zone was reported to the ASX on 4 February 2020 and was undertaken by Mr. Patrick Rice, an independent consultant to Matador Mining Limited. Mr. Rice is a Fellow of the AUSIMM and was engaged as a consultant to Matador Mining Limited. Mr. Rice has sufficient experience which is 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 JORC Code 2012. Mr. Rice consents to the inclusion in this announcement of the matters based on his information in the form and context in which it appears.

The information contained in this announcement that relates to exploration results is based upon information compiled by Mr. Warren Potma, who is an employee of Matador Mining Limited in the position of Exploration Manager. Mr. Potma is a Member of the AUSIMM and a Member of the AIG and has sufficient experience which is 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 JORC Code 2012. Mr Potma consents to the inclusion in the announcement of the matters based upon the information in the form and context in which it appears.

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements, and in the case of estimates of Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcements.