



WESTERN MINES GROUP

EXPLORING A MAJOR KOMATIITE NICKEL SYSTEM UNDERCOVER

NOVEMBER 2022

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Western Mines Group



ASX: **WMG**

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COMPETENT PERSON STATEMENT

Dr Caedmon Marriott who is a member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists, is Managing Director of the Company. Caedmon has sufficient experience that is relevant to the styles of mineralisation and type of deposits 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'. Caedmon consents to the inclusion in this presentation of the matters based on his information in the form and context in which it appears.

MONETARY VALUES

Unless otherwise stated, all dollar values are in Australian Dollars (A\$). The information in this presentation remains subject to change without notice.

COMPANY OVERVIEW



WESTERN MINES GROUP

- High-impact exploration focused on Ni-Cu-PGE and Au
- 8 projects all located in Western Australia
- Multiple “company making” opportunities - 2 current priority projects:
 - **Mulga Tank (Ni-Cu-PGE)** - major Ni-Cu-PGE project undercover, **Phase 2 diamond drilling program commencing end of November**
 - **Jasper Hill (Au)** - 3km mineralised trend gold with walk up drill targets adjacent to historical gold mines
- Tight capital structure - **exceptionally leveraged to exploration success**
- Experienced and successful board and management – exploration team lead by WA nickel expert Dr Ben Grguric
- Compelling valuation - MCap ~\$5.3m / EV ~\$3m versus peers at 3-5x

“An exploration driven company looking to create value through discovery”

10x

Western Mines Group Ltd	ASX:WMG
Shares Outstanding	44,650,001
Share Price (31/10/22)	\$0.12
Market Capitalisation	\$5.36 Million
Cash (30/09/22)	\$2.36 Million
Unlisted Options (\$0.30 strike)	21,850,000
Top 20 Shareholders	45.3%
Directors and Management	8.1%

SIGNIFICANT NEAR TERM NEWS FLOW | LOW EV | EXCITING RISK-REWARD

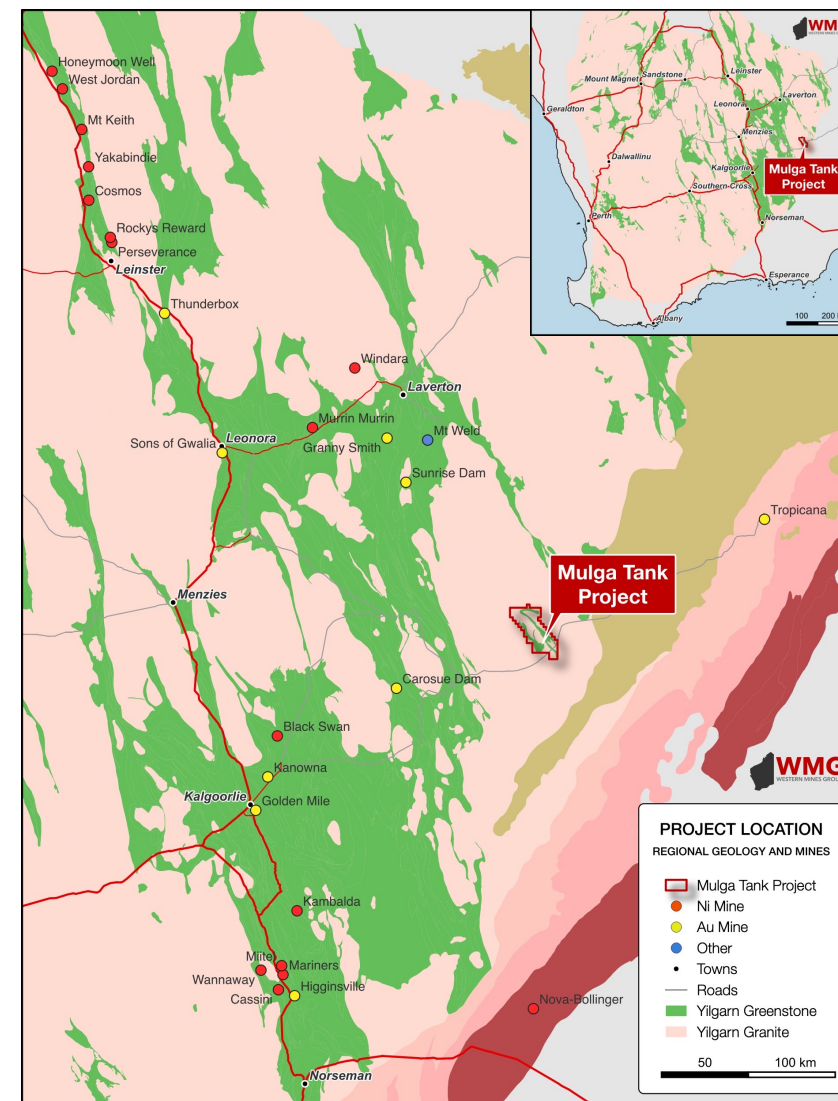
MULGA TANK (Ni-Cu-PGE)

WORLD CLASS NICKEL PROVINCE

- Western Australia's Yilgarn Craton one of the world's major nickel provinces
- World-class examples of komatiite-hosted Ni-Cu-PGE deposits – Kambalda (35Mt @ 3.1% Ni), Perseverance (50Mt @ 2.3% Ni) and Mt Keith (643.7Mt @ 0.58% Ni)

MULGA TANK PROJECT

- Frontier exploration play for major komatiite-hosted Ni-Cu-PGE deposits under cover
- Strategically assembled 395km² position on the under-explored Minigwal Greenstone Belt
- Mulga Tank Ultramafic Complex (WMG 100%) comparable scale (29km²) to the Kambalda Dome camp
- Tenure under-explored to date - significant potential for exploration upside
- Highly prospective for Ni-Cu-PGE massive sulphide mineralisation
- Unlock with modern techniques and fundamental geology



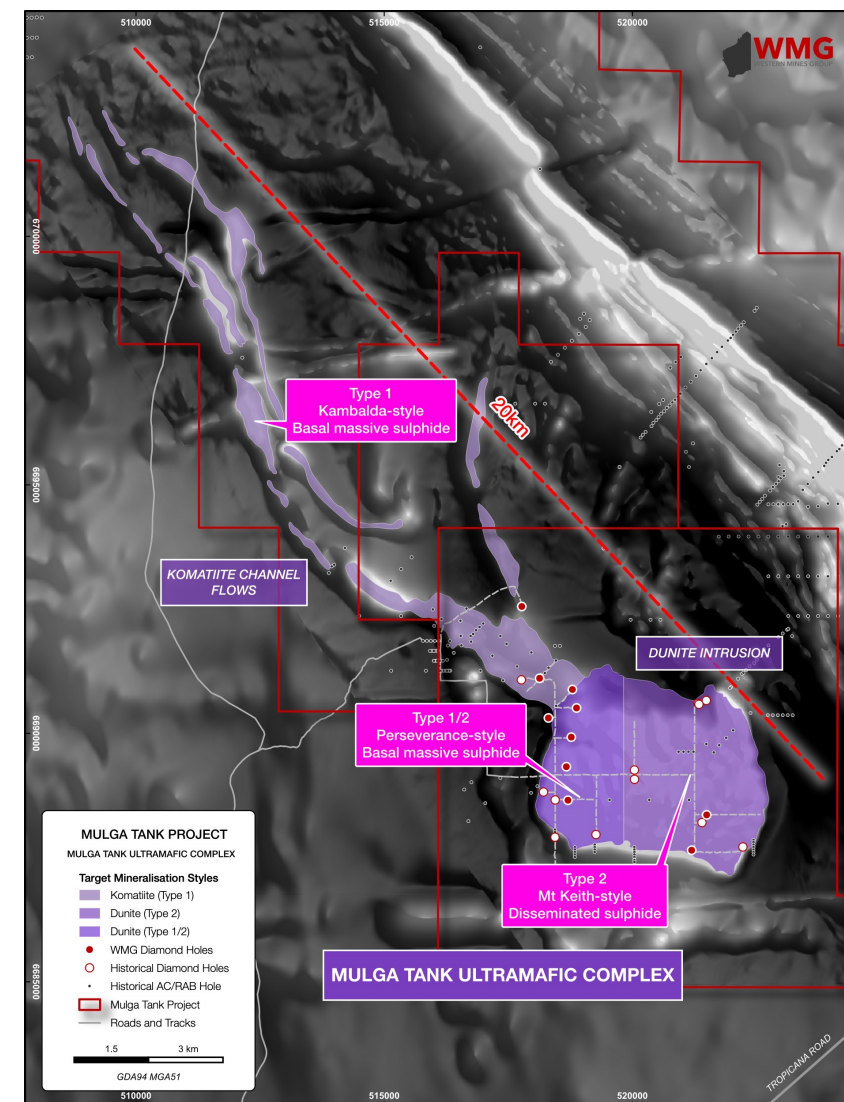
BELT SCALE OPPORTUNITY

POTENTIAL MAJOR KOMATIITE NICKEL SYSTEM UNDER COVER

- Minigwal Greenstone Belt and Mulga Tank Ultramafic Complex under explored due to ~60m sand cover
- Limited diamond drilling has penetrated ultramafic system - nearly all holes show komatiite/dunite hosted Ni-Cu-PGE sulphide mineralisation
- Large meso-accumulate dunite body (~14km²) with interpreted komatiite channel flows extending NW over >12km

ALL CRITICAL ELEMENTS OF A LARGE-SCALE WORKING SYSTEM

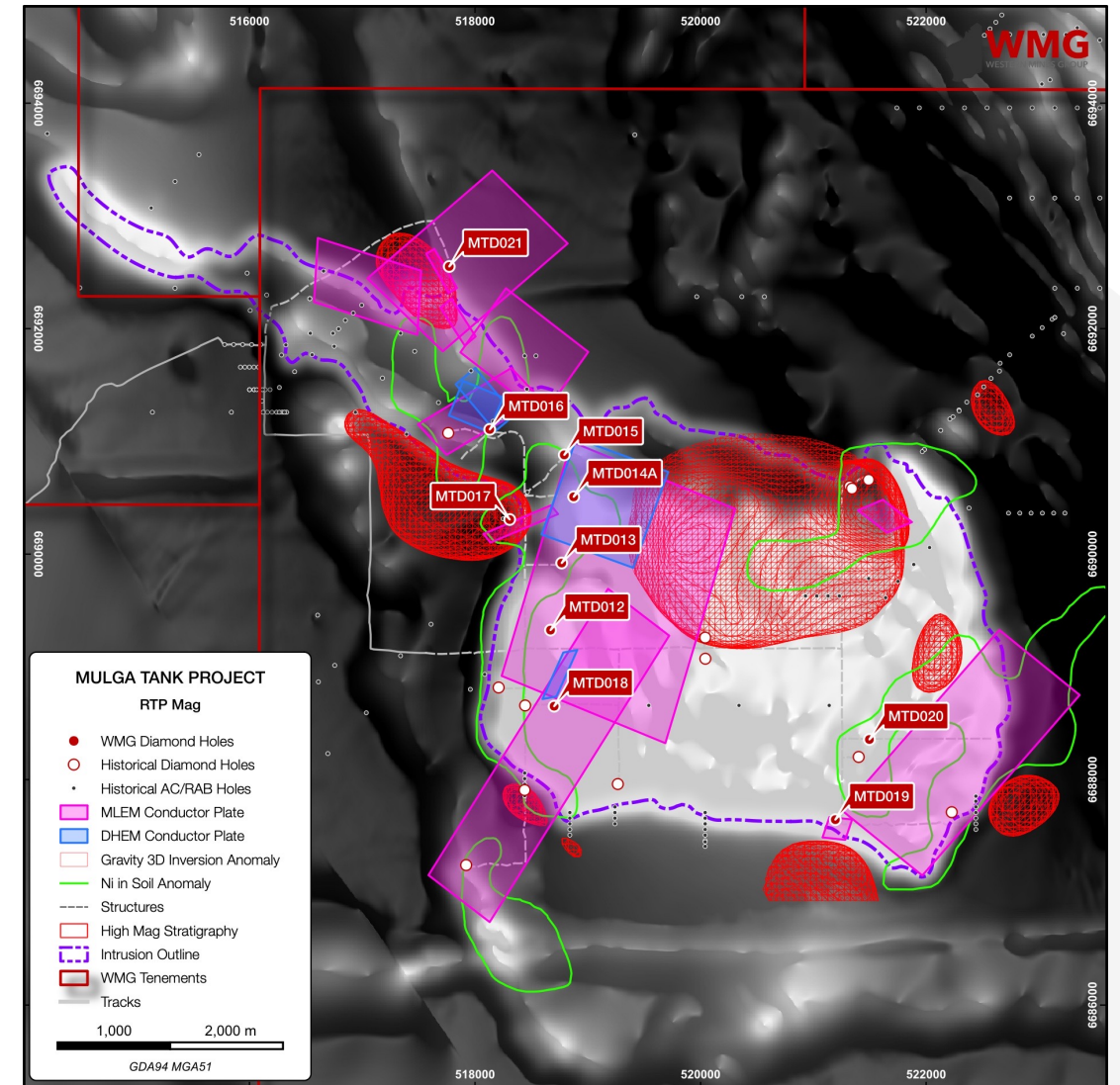
Critical Process	Description	Evidence
Source	Komatiite magma	✓
Pathway	Transport of komatiite magma through the crust	✓
Sulphur saturation	Addition of sulphur and sulphur saturation of undersaturated magma	✓
Chemical and physical trap	Sequestering metals into sulphides	✓
Physical concentration	Concentration of metal-rich sulphides into deposits	?



SYSTEMATIC EXPLORATION APPROACH

VECTERING TOWARDS NICKEL MINERALISATION

- Building a robust exploration model for the discovery of nickel sulphide deposits
- Combined geophysical, geological and geochemical vectoring
- Historical datasets (magnetics, EM, HeliSAM, DHEM, pXRF, soil partial leach)
- WMG recent high resolution ground gravity and high powered MLEM surveys
- Only 12 historical drill holes deeper than 150m
- WMG Phase 1 diamond drilling April to July 2022 - 10 holes for 3,990m
- Phase 2 commencing end November 2022
- Exploration team lead by WA nickel expert Dr Ben Grguric

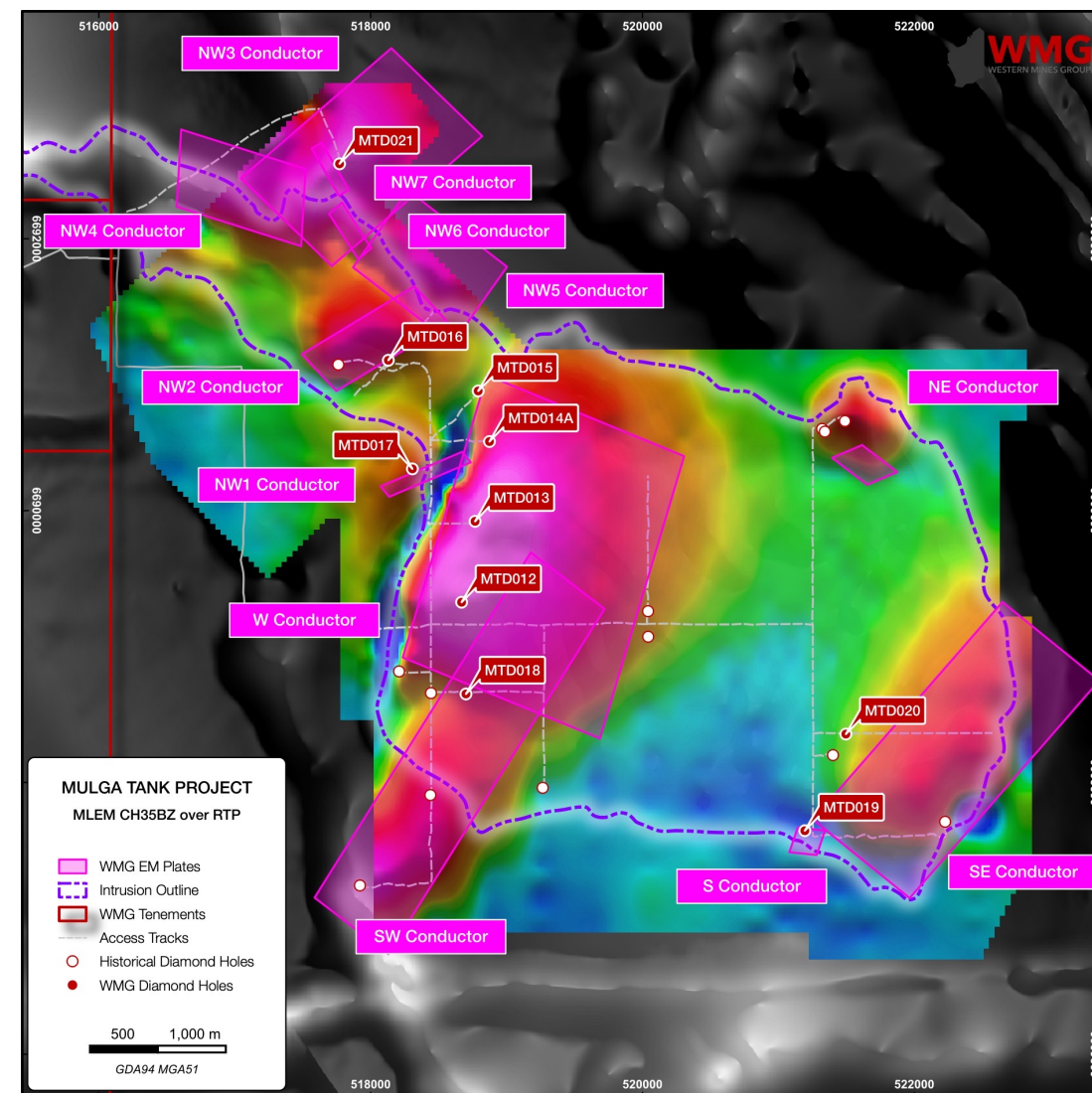


PHASE 1 DIAMOND DRILLING

VISIBLE NICKEL SULPHIDES IN SIX OUT OF TEN HOLES

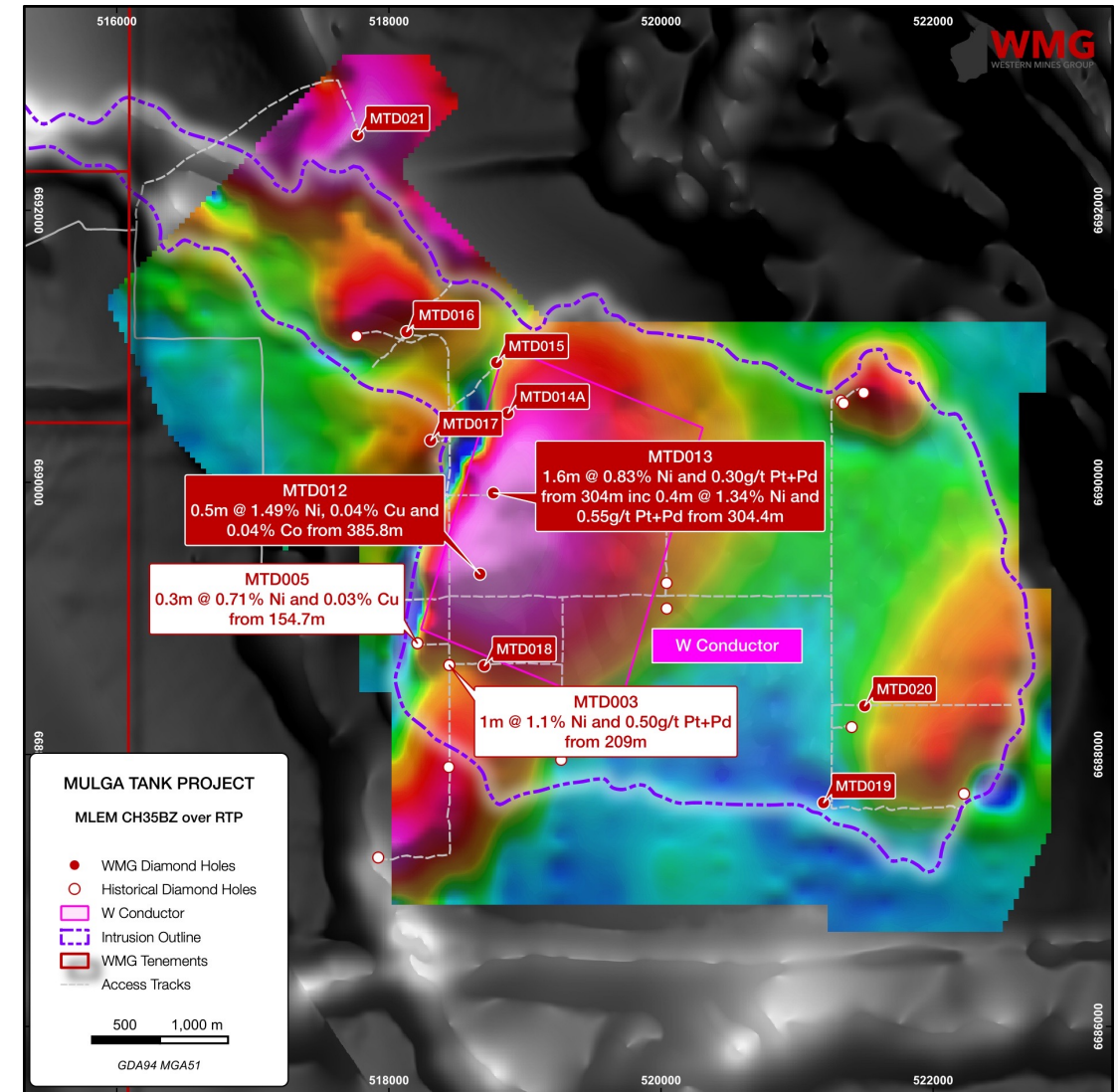
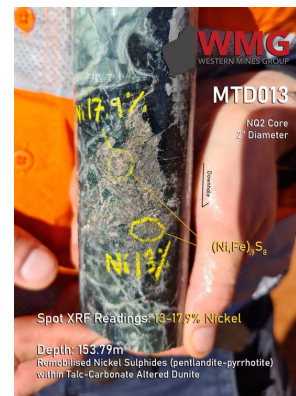
- Phase 1 drilling program April to July 2022 – 10 holes for 3,990m
- Tested a range of geological and geophysical targets

HoleID	Target	Description
MTD012	Geology	Testing western margin of the intrusion between holes MTD003, MTD005 and the W Conductor
MTD013	EM	Testing basal contact of western margin at top of W Conductor
MTD014	EM	Testing basal contact of western margin at top of W Conductor
MTD015	Geology	Longitudinal geological section through the neck of the Panhandle at top of the W Conductor, to confirm intrusive or extrusive related model of intrusion geometry, with implications for belt wide targeting
MTD016	Geology/EM	Following up on high grade result of remobilised sulphides in hole MTD006 0.25m at 3.8% Ni, 0.7% Cu and 0.7g/t PGE, up dip of NW2 Conductor and along northern margin of gravity high body
MTD017	EM	Discrete EM anomaly along margin of coincident gravity high body in unusual orientation on western margin of intrusion
MTD018	Geology/EM	Testing down dip MTD003 intersection of 1m at 1.13% Ni and 0.49g/t Pd on the basal contact with coincident EM anomaly
MTD019	EM	Discrete EM anomaly on southern margin of the intrusion in highly favourable basal contact position
MTD020	Geology	Testing down dip of hole MTD011 that showed multiple zones of nickel sulphide mineralisation
MTD021	EM	Testing up dip component of NW3 Conductor



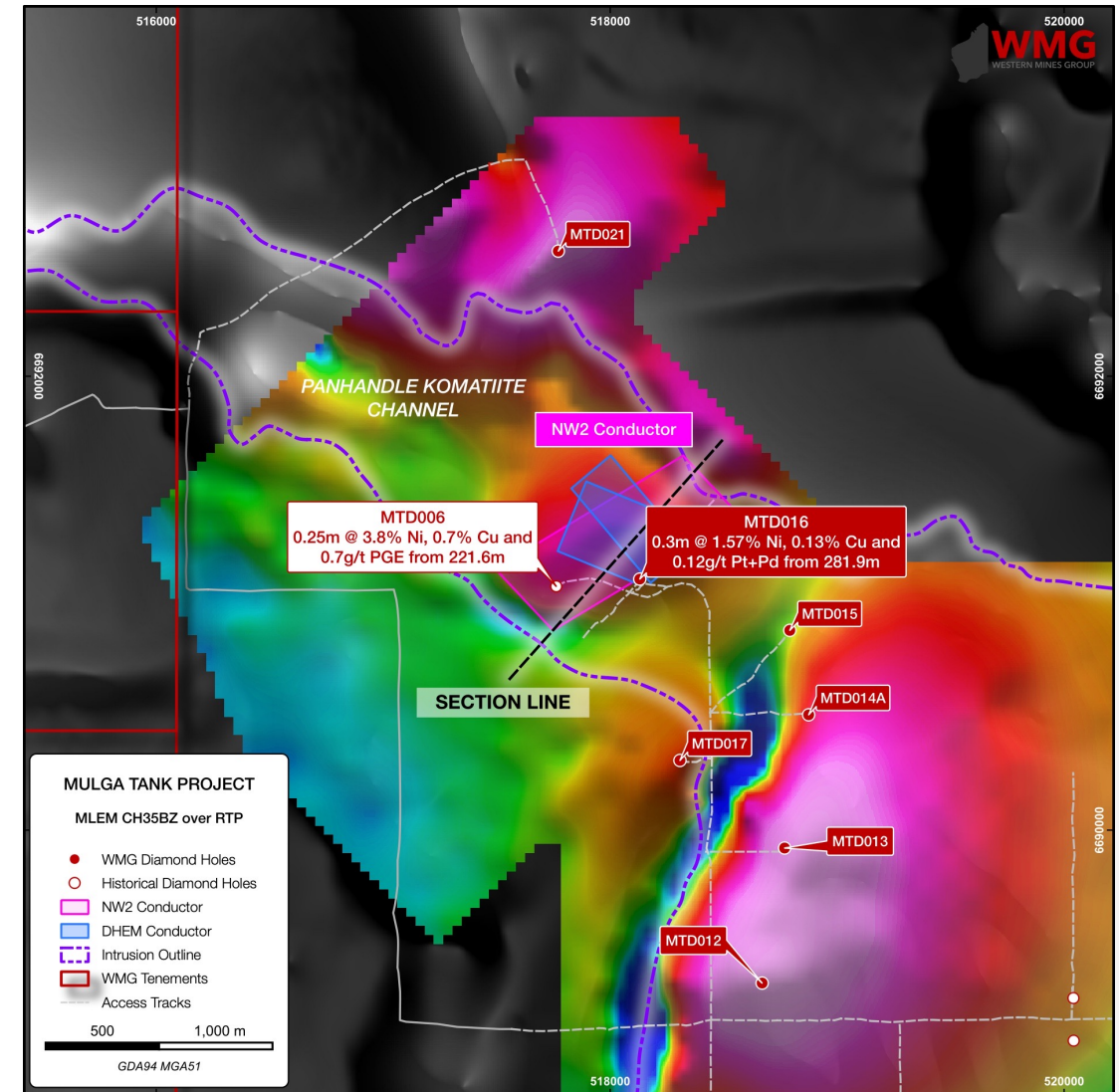
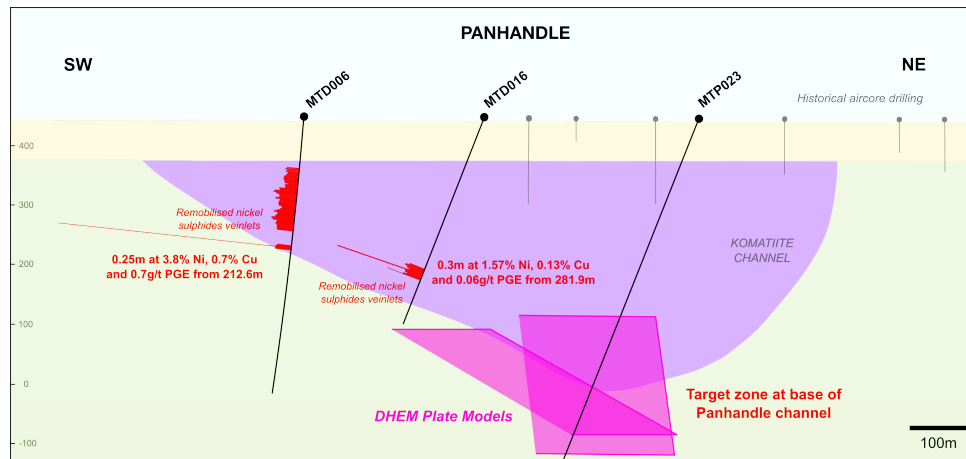
REMOBILISED NICKEL SULPHIDE VEINING

- Holes MTD012 and MTD013 tested up dip of major *W Conductor* EM anomaly
- Multiple zones of remobilised visible nickel sulphide veins
- Hole MTD012: **0.5m at 1.49% Ni, 0.04% Cu and 0.04% Co** from 385.8m
- Holes MTD013: **1.6m at 0.83% Ni and 0.30g/t Pt+Pd** from 304m inc. **0.4m at 1.34% Ni, 0.04% Co and 0.55g/t Pt+Pd** from 304.4m
0.4m at 1.29% Ni and 0.43g/t Pt+Pd from 153.6m
- Initial appraisal of sulphide veins suggests likely physically remobilised from a massive sulphide source
- Type 1 Perseverance-style target
- Follow-up MTD022 at depth



KOMATIITE CHANNEL WITH NICKEL SULPHIDES

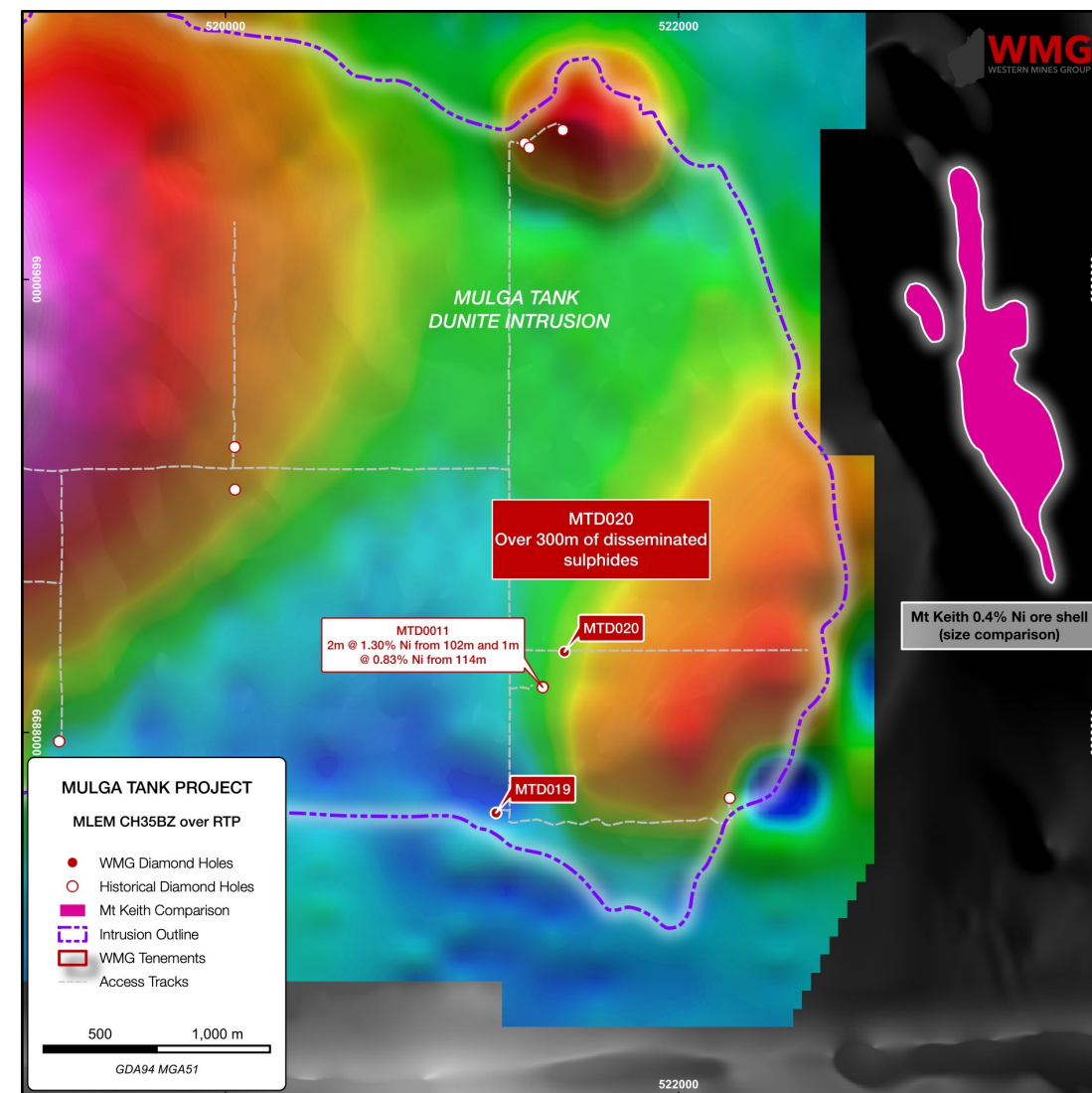
- *Panhandle* feature interpreted komatiite channel extending NW – Type 1 Kambalda-style
- Historical MTD006: **0.25m at 3.80% Ni, 0.7% Cu and 0.7g/t PGE** from 385.8m
- Holes MTD016: **0.9m at 1.06% Ni, 0.06% Cu and 0.05g/t Pt+Pd** from 281.6m inc. **0.3m at 1.57% Ni, 0.13% Cu and 0.12g/t Pt+Pd** from 281.9mm
- DHEM strong offhole high-conductance target (~4,000-7,000S) to north of hole



MULGA TANK DUNITE

DISSEMINATED SULPHIDES OVER >300M

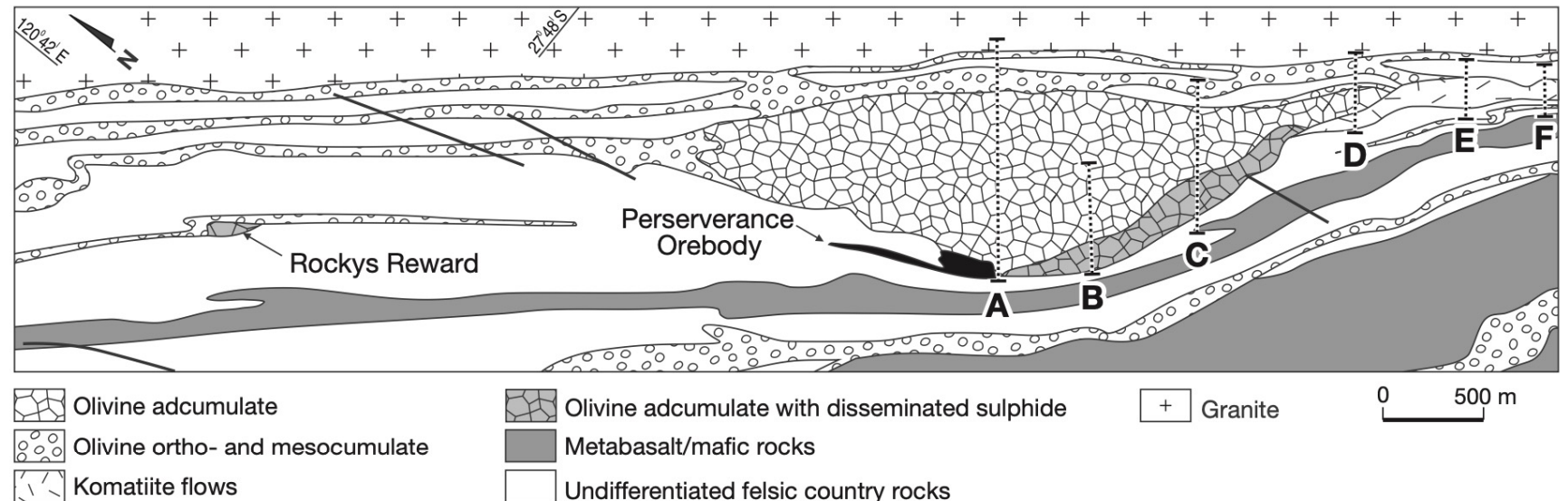
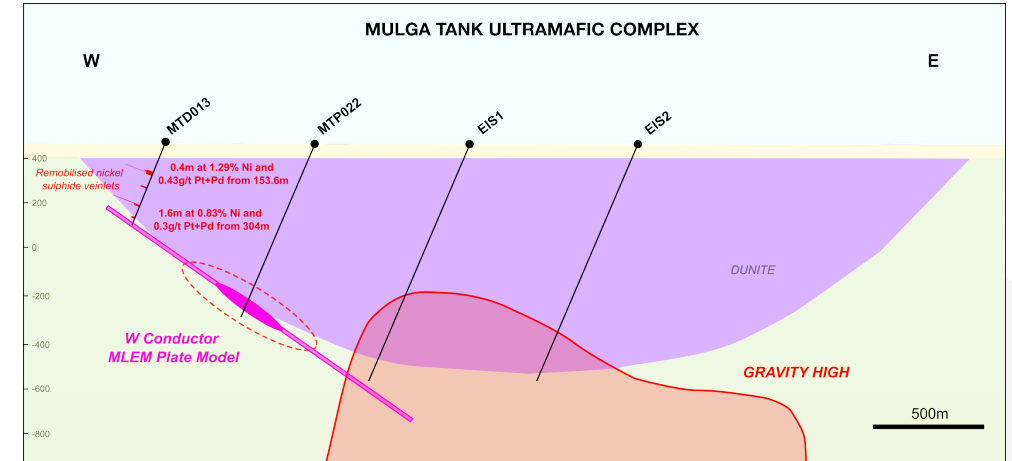
- Hole MTD020 intersected >300m of disseminated magmatic sulphides within high MgO adcumulate dunite
- Sulphides coalesce into interstitial blebs towards base of unit
- Clear indication of major magmatic sulphide mineral system
- Potential for large-scale Type 2 Mt Keith-style mineralisation
- Extensive untested area of dunite intrusion – could fit multiple Mt Keith orebodies!



CHASING MAJOR DEPOSITS

EVIDENCE OF LARGE-SCALE WORKING SYSTEM

- Successful EIS award of \$220,000 towards two deep diamond holes
- Aim to capture complete cross-section of the dunite intrusion
- Meso-adcumulate dunite body of comparable size/scale to Perseverance and Mt Keith
- Unlock knowledge of the intrusion and test major targets



PHASE 2 DIAMOND DRILLING

FOLLOW-UP PROGRAM COMMENCING IN NOVEMBER

- Phase 2 ~5,000m diamond program
- 2 deep EIS holes

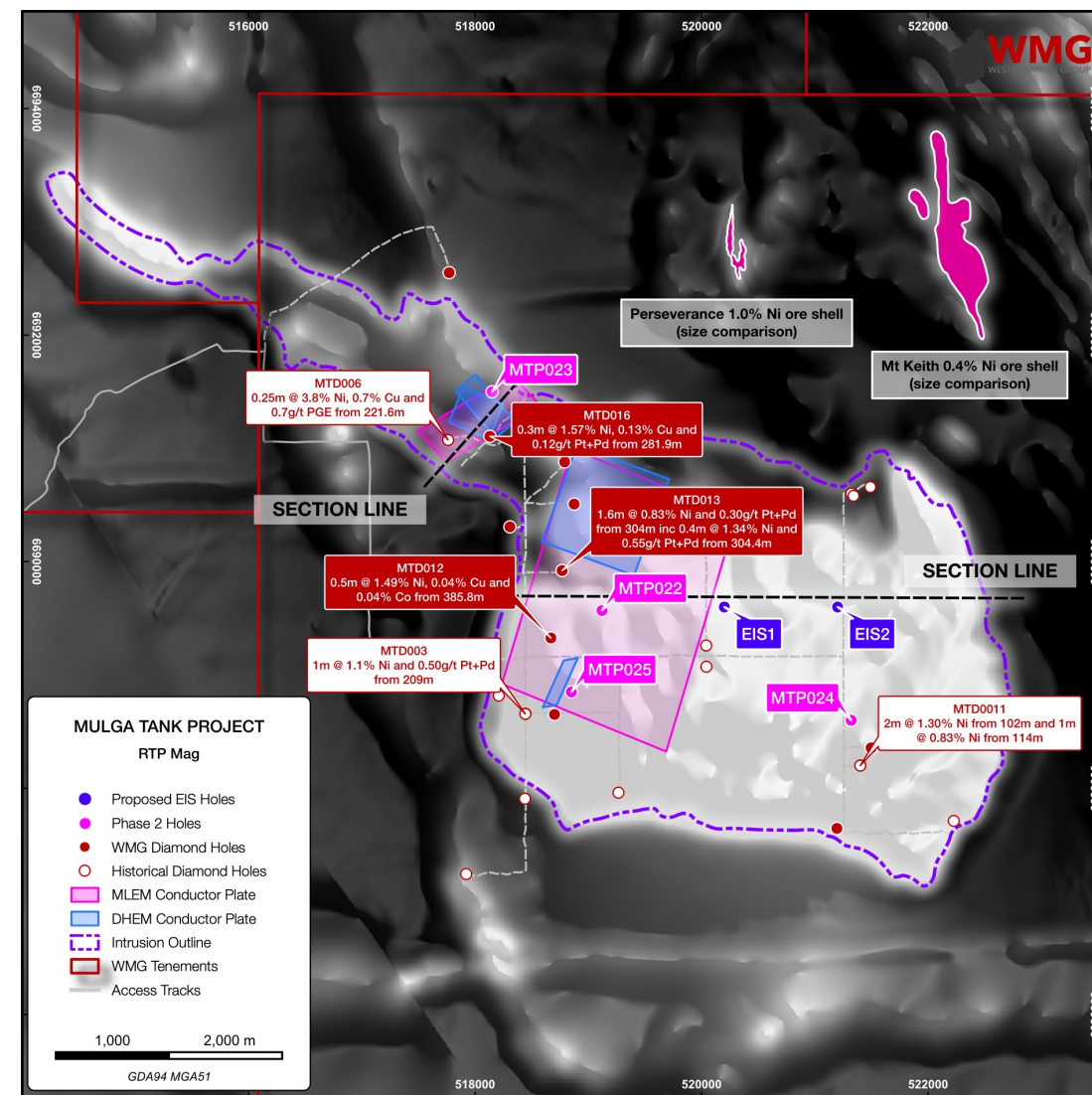
TYPE 1 MASSIVE SULPHIDE TARGETS

- DHEM multiple high conductance offhole anomalies
- Remobilised sulphide veins and *W Conductor*

TYPE 2 DISSEMINATED SULPHIDE TARGETS

- MTD020 extensive disseminated sulphide

HoleID	Target	Description
MTP022	EM	Testing centre of the <i>W Conductor</i> at depth between MTD012 and MTD013
MTD023	EM/Geology	Testing <i>Panhandle</i> offhole conductor between MTD006 and MTD016
MTD024	Geology	Follow-up on hole MTD020
MTD025	EM	Testing MTD018 offhole conductor
EIS1	Geology/EM	EIS deep hole testing base of <i>W Conductor</i> and centre of complex
EIS2	Geology/Gravity	EIS deep hole testing centre of gravity high and base of complex



SUMMARY

EXCITING DISCOVERY OPPORTUNITY

- Exposure to Ni-Cu-PGE and Au with all projects located in Western Australia
- High-impact drilling program at Mulga Tank – unlocking major komatiite Ni-Cu-PGE system under cover
- Significant news flow over the next 3-4 months
- Highly leveraged to exploration success - material valuation upside
- Exploration ongoing throughout 2023

FOR FURTHER INFORMATION PLEASE CONTACT

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DIRECTORS



Rex Turkington *Non-Executive Chairman*

Capital Markets | Corporate Management

Rex is a highly experienced corporate advisor and economist who has worked extensively in the Australian financial services and stockbroking industry, specialising in the natural resources sector and participating in numerous initial public offerings and capital raising for ASX listed companies. Rex is currently Managing Director of South Pacific Securities, an advisory company offering corporate finance and investor relations advice to listed companies. He was previously Chairman of Key Petroleum (ASX:KEY) and Non-Executive Director of TNG Limited (ASX:TNG). Rex is a graduate of the Australian Institute of Company Directors (GAICD) and an associate of the Financial Services Institute of Australia (AFINSA).



Dr Caedmon Marriott *Managing Director*

Exploration | Capital Markets

Caedmon has over 18 years experience in mineral exploration and equity capital markets. Caedmon was previously Managing Director of Western Australian gold and nickel explorer Aldoro Resources (ASX:ARN) and prior to that Managing Director of private exploration company Hanno Resources, responsible for establishing and managing the company's frontier exploration strategy in Western Sahara. Prior to Hanno, Caedmon worked as a buy-side mining analyst at GLG Global Mining Fund, Och-Ziff Capital and JPMorgan Natural Resources Fund. He holds a PhD in Geology, is a Chartered Financial Analyst and a member of the Australasian Institute of Mining and Metallurgy (MAusIMM) and the Australian Institute of Geoscientists (MAIG).



Francesco Cannavo *Non-Executive Director*

Business Development | Capital Markets

Frank is an experienced public company director and entrepreneur with significant business and investment experience across a number of industries, including mining and natural resources. He has a strong network of investors and industry contacts throughout the Asia-Pacific region and has extensive experience in capital raising, investments and initial public offerings. Frank has been instrumental in assisting several listed and unlisted companies achieve their growth strategies through the raising of capital and the acquisition of assets. Frank is currently a Non-Executive Director of Golden Mile Resources (ASX:G88).



Dr Benjamin Grguric *Technical Director*

Exploration | Corporate Management

Ben has extensive experience in mineral exploration and scientific research, with direct involvement in a number of gold and nickel discoveries over the last 30 years. Ben is considered a leading expert on WA nickel sulphide exploration with over 50 peer-reviewed scientific papers. Ben spent his early career with WMC Resources/BHP, in particular at the Mt Keith Nickel Operation, managing brownfield and greenfield nickel sulphide exploration in Western Australia. As Geoscience Manager – Australia for Norilsk Nickel, Ben was responsible for exploration strategy across their portfolio of WA nickel assets and directly involved in the discovery of the West Jordan Type 2 nickel sulphide deposit. Ben holds a PhD in Earth Sciences and is a fellow of the Australian Institute of Geoscientists (FAIG) and the Society of Economic Geologists (FSEG).