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Mineral Resources

The information in this Presentation that relates to in situ Mineral Resources for the Chilalo Project was announced on 28 August 2018. Graphex confirms that it is not aware of any new information or data that materially affects the information included in the announcement of 28 August 2018 and that all material assumptions and technical parameters underpinning the estimates in the announcement of 28 August 2018 continue to apply and have not materially changed.

Ore Reserves

The information in this Presentation that relates to the Ore Reserve at the Chilalo Project was announced on 29 January 2020. Graphex confirms that it is not aware of any new information or data that materially affects the information included in the announcement of 29 January 2020 and that all material assumptions and technical parameters underpinning the estimates in the announcement of 29 January 2020 continue to apply and have not materially changed.

Forecast financial information

The forecast financial information (and the production target on which such forecast financial information is based) in this Presentation was announced on 29 January 2020. All material assumptions underpinning the forecast financial information (and the production target on which such forecast financial information is based) in the announcement of 29 January 2020 continue to apply and have not materially changed.

Exploration Results

The information in this announcement that relates to exploration results was announced on 2 September 2015. Graphex confirms that it is not aware of any new information or data that materially affects the information included in the announcement of 2 September 2015.

POISED FOR PRODUCTION

Completion of DFS clears another funding hurdle

- Robust DFS confirms strong economics that improve during product qualification
- Graphex well-placed to realise enhanced margins as a vertically integrated manufacturer of high-value graphite products
- Unique and market-leading product quality
- Graphex's market strategy & IP provide the platform to capitalise on Chilalo's product quality
- Coarse flake graphite market primed for new entrants
- Poised to become Tanzania's first commercial graphite project permitted for construction with financier conducting due diligence

CHILALO PROJECT

High-grade, coarse flake deposit

WORLD-CLASS LOCATION

south-east Tanzania is the global region for coarse flake graphite

DFS COMPLETED

significant condition to unlocking senior funding package

20.1MT GRAPHITE @ 9.9% TGC1

Ore Reserve of 9.2Mt underpins 18 year mine life

STRONG GRAPHITE MARGIN

larger flake sizes attract premium prices

FULLY PERMITTED FOR 2020 CONSTRUCTION

with Mining Licence and Environmental Approvals

GPX PRODUCT FLAKE SIZE

FLAKE SIZE PRICE PREMIUM

10%	21%	27%	6%	36%
+32	+50 mesh	+80 mesh	+100	-100 mesh
02				

31% +50 mesh



DFS ECONOMIC OUTCOMES

Strong economics to a bankable standard¹

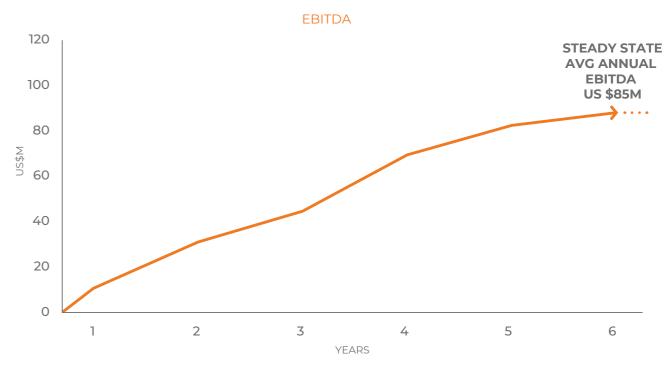
Physicals	Unit	Life of mine
Mine life	years	18
Total plant feed	Mt	8.9
Annual plant feed	ktpa	500
Average head grade	% TGC	10.1%
Average graphite concentrate production ²	ktpa	50
Steady state expandable graphite sales	ktpa	12
Steady state micronised graphite sales	ktpa	8

Project Financials	Unit	Life of Mine
NPV ₈ (Post-tax)	US\$M	331
IRR (Post-tax)	%	36%
Post-tax payback period	years	3.5
Pre-production capital cost (incl. 10% contingency and pre-strip)	US\$M	87.4
Average annual EBITDA	US\$M	74

Product Segment Financials	Unit	Concentrate Graphite	Expandable Graphite	Micronised Graphite	Consolidated production ⁴
Average sales price (FOB)	US\$/t	1,534	5,690	2,802	2,500
C1 operating costs per tonne (FOB) ³	US\$/t	778	512	383	905
Operating margin	US\$/t	756	5,178	2,419	1,595

NPV₈ (POST-TAX)
US\$ 331M

IRR (POST-TAX)
36%



^{1.}ASX Announcement – 29 January 2020 "DFS confirms Chilalo as high-margin graphite project."

^{2.}Average graphite concentrate production includes graphite concentrate used as feedstock into both value-added products.

^{3.} Operating costs of expandable graphite and micronised graphite excludes the internal transfer price (purchasing feedstock from Chilalo).

^{4.}Consolidated Production shows the average sales price, operating costs and margin for the consolidated operation (ie. Inclusive of concentrate, expandable graphite and micronised graphite). **GRAPHEX MINING / 5**

VERTICALLY INTEGRATED MANUFACTURER OF HIGH-VALUE GRAPHITE PRODUCTS



YEAR 1

CONCENTRATE SALES COMMENCE



PRODUCT

(000's)

YEAR 1 YEAR 2 YEAR 3 YEAR 4

YEAR 5 YEAR 6 YEAR 7

CONCENTRATE CUSTOMERS



CHILALO MINE (PRODUCING CONCENTRATE ONLY)

YEAR 2



MICRONISED SALES COMMENCE



FIRE RETARDANT COMPANIES (EG CUSTOMERS)



MICRONISED & EXPANDABLE GRAPHITE CUSTOMERS



CHILALO MINE (CONCENTRATE & MICRONISED)

YEAR 3







GRAPHEX PROCESSING AGENT

GRAPHEX MINING / 6

GRAPHITE CONCENTRATE MARKETING STRATEGY

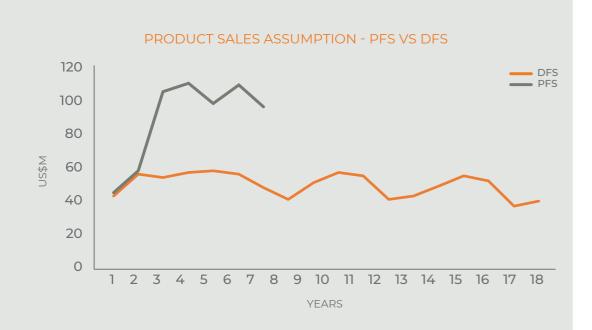
Multi-faceted strategy focused on maximising revenue

GEOGRAPHICAL DIVERSIFICATION

enhanced focus on Europe, USA and Japan complementing strong historical Chinese focus

APPLICATION DIVERSIFICATION

seeking exposure to several high-value markets and specifically avoiding low-value markets with limited qualification requirements (eg. refractories)



FLAKE VS VALUE-ADD

pursuing a low-risk, low capital-intensive strategy to diversify risk and maximise margins

EXPANSION STRATEGY

production expansion remains a compelling upside opportunity however DFS has excluded an expansion

SALES AGREEMENTS

numerous potential customers with final sales strategy to constitute part of the final investment decision, to be made in consultation with finance partners

OTHER STRATEGIES

ISO certification, flexibility of packaging options, flexibility of product screening, branding

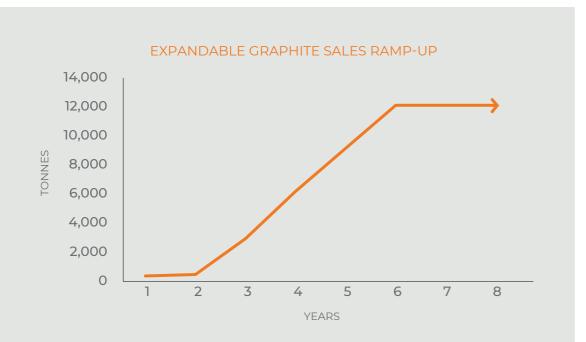
Product Segment Financials ¹	Unit	Concentrate
LOM Average sales price (FOB)	US\$/t	1,534
C1 operating costs per tonne (FOB)	US\$/t	778
Operating margin	US\$/t	756

1. ASX Announcement – 29 January 2020 "DFS confirms Chilalo as high-margin graphite project."

EXPANDABLE GRAPHITE STRATEGY - 4 YEARS IN THE MAKING

Term sheet with world's largest expandable graphite manufacturer demonstrates Chilalo credentials





FINAL PRODUCT









Product Segment Financials ¹	Unit	Expandable Graphite
Capital Cost	US\$M	0
Average sales price (FOB)	US\$/t	5,690
C1 operating costs per tonne (FOB) ¹	US\$/t	512
Operating margin	US\$/t	5,178

- 1. ASX Announcement 29 January 2020 "DFS confirms Chilalo as high-margin graphite project."
- 2 Operating costs exclude the internal transfer price (purchasing flake graphite feedstock from Chilalo mine).

MICRONISED GRAPHITE STRATEGY

Enhancing margins from lower value fines

FEEDSTOCK
MIN 95% LOI
(-100 or -200 Mesh)

Fine milling micronisation equipment

Lab and ISO
9001 Certification
(Standard Purity 95% LOI)

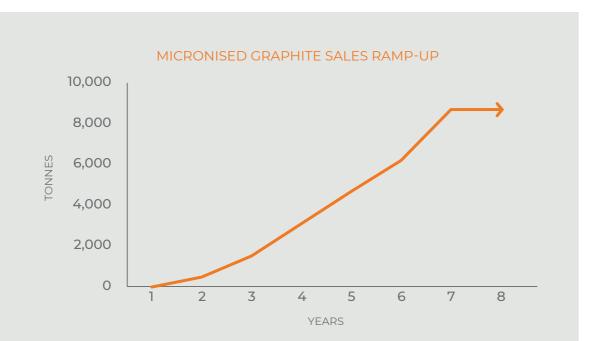
STD PURITY MICRONISED FLAKE GRAPHITE POWDER

Five Different Products US\$1,400 - 6,000/t

Bagging / Weigh Station



FINAL PRODUCT













Carbon Brush

Lubricants

Friction

Engine Seals

Plastics

STANDARD PURITY MICRONISED GRAPHITE POWDER PRODUCTS

Product Segment Financials ¹	Unit	Micronised Graphite
Capital Cost	US\$M	2
Average sales price (FOB)	US\$/t	2,802
C1 operating costs per tonne (FOB) ²	US\$/t	383
Operating margin	US\$/t	2,419

1. ASX Announcement – 29 January 2020 "DFS confirms Chilalo as high-margin graphite project."

2.Operating costs exclude the internal transfer price (purchasing flake graphite feedstock from Chilalo mine).

GRAPHEX MINING / 9

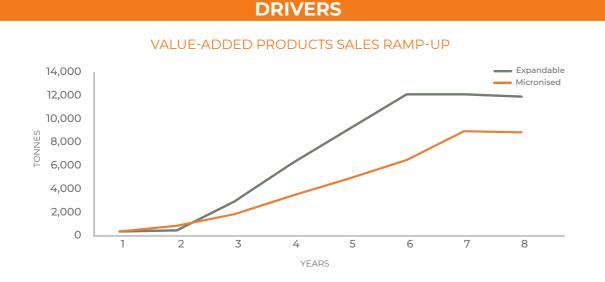
POISED TO DELIVER ON GRAPHITE STRATEGIES

Key boxes have been ticked

	Graphite Concentrate	Expandable Graphite	Micronised Graphite
Suitability	DFS testwork, downstream analytical tests performed my independent labs and potential customers	Several independent labs confirm suitability for foils and fire-retardants	Suitability confirmed by micronisation equipment supplier
Marketing	Numerous concentrate customers diversified by application and location	Numerous international fire-retardant companies identified including technical specs required by each	Numerous international micronised graphite customers identified including technical specs required by each
Technical Risk	Pilot plant testwork confirms scale-up to commercial scale operation	Expandable graphite processing term sheet signed with China's largest expandable graphite manufacturer – leveraging off existing technology and processing expertise	Micronisation equipment supplier is a respected supplier to the industry
Economics	Strong economics driven by product quality (average sales price) – upside opportunities to reduce operating costs	Substantial value-add with no capital investment	Very low capital cost and substantial value-add (low-value -100 mesh feedstock)
Timing	Construction subject to funding	Sales commence in year 3 following ~24 months qualification timeframe and progressive sales ramp-up	Micronisation equipment installed in year 2 with progressive sales ramp-up

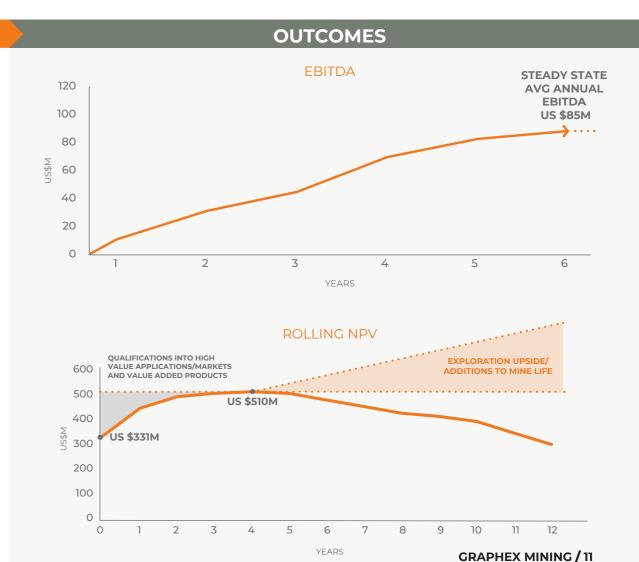
IMPROVING ECONOMICS OF THE CHILALO PROJECT

Product qualifications drive six years of increasing EBITDA¹



AVERAGE SALES PRICE (CONCENTRATE)

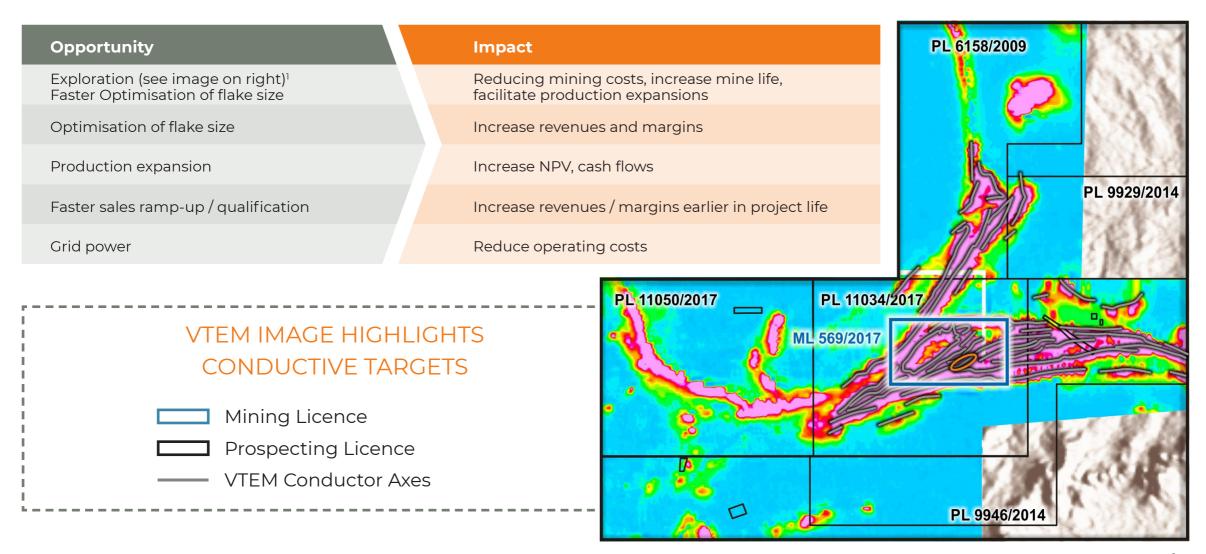
Mesh size	Mass Dist.%	Price Year 1	Price Year 2	Price Year 3	Price Year 4	Average (LOM)
+20	0.7	5,000	5,000	5,000	5,000	5,000
+32	9.8	2,359	2,582	2,895	3,031	3,017
+50	20.6	1,745	1,935	2,235	2,357	2,242
+80	26.9	1,057	1,133	1,251	1,299	1,270
+100	6.3	794	853	945	983	969
-100	35.8	631	637	735	761	749
	d average ce (US\$/t)	1,178	1,303	1,475	1,535	1,534



1. ASX Announcement – 29 January 2020 "DFS confirms Chilalo as high-margin graphite project."

UPSIDE OPPORTUNITIES

High-conviction opportunities to improve economics + extend project life



CHILALO PRODUCT QUALITY

Large flake graphite underpins average sales price

31% graphite product achieves premium price

Unique ability to achieve >99% LOI through flotation

Suitability for targeted high-value applications

Verified by 6 independent labs + 5 independent research institutes

GPX AVERAGE SALE PRICE

Mesh	Microns	Mass Dist. %	%LOI ²	LOM Average Sale Price (US\$/t) ¹	
+20 Mesh	+850	0.7	95	\$5,000	
+32 Mesh	500 - 850	9.8	95	\$3,017	1
+50 Mesh	300 - 500	20.6	95	\$2,242	
+80 Mesh	180 - 300	26.9	95	\$1,270	
+100 Mesh	150 - 180	6.3	95	\$969	
-100 Mesh	<150	35.8	95	\$747	
WEIGHTED AVER	AGE SALE PRICE (F	OB)		\$1.534	

1 Graphex has considered pricing data from numerous independent sources including Roskill, Industrial Minerals, Benchmark Mineral Intelligence, RefWin-China as well as its own expert graphite market consultants.

The LOM average sales price reflects higher pricing received when Chilalo concentrate has qualified into high-value applications/markets.

2. LOI - Loss on Ignition. Graphex is targeting 2 base range purities with 95% LOI being the standard purity product.

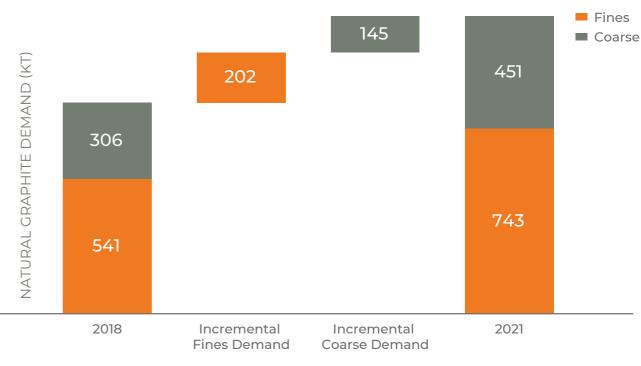
GRAPHEX MINING / 13

COARSE FLAKE MARKET: PRIMED FOR NEW ENTRANTS

Chilalo unable to meet incremental coarse flake demand

COARSE FLAKE GRAPHITE MARKET STATE OF PLAY

- Historical dominant supplier (China) has diminished reserves of coarse flake graphite
- Intermittent/unreliable mining of China's remaining coarse flake reserves due to environmental crackdown
- Insignificant and inconsistent coarse flake supply from Africa
- Unfulfilled demand in high-value applications of coarse flake graphite foils, gaskets and fire-retardants (see image on right)



Source: Benchmark Mineral Intelligence, June 2019

FLAMMABLE CLADDING RESPONSIBLE FOR FIRE DISASTERS

Global response to drive demand for "graphite-heavy" fire retardants



UK GOVERNMENT ANNOUNCES AN INDEPENDENT REVIEW OF BUILDING REGULATIONS AND FIRE SAFETY.

United Arab Emirates - 21 Feb 2015 & 4 Aug 2017

2X DUBAI APARTMENT FIRES

United Arab Emirates - 22 Jan 2017

UAE FIRE AND LIFE SAFETY CODE RAISES THE STANDARDS FOR EXTERIOR CLADDING AND SUPPLEMENT MATERIALS TO REDUCE THE CLADDING'S FLAMMABILITY TO ZERO

INTERNATIONAL FIRE SAFETY STANDARDS COALITION - 12 JULY 2018

30 country response to flammable cladding issues raised by the Grenfell Tower fire



CHINA BUILDING REGULATIONS AMENDED MANDATING THE USE OF FLAME RETARDANT BUILDING MATERIALS IN FUTURE CONSTRUCTION

"China needs 40Mtpa of FRBM's, which will contain 5% expandable graphite." - Mr Jiang Yang, Group Vice President - China National Building Materials

19 FIRES INVOLVING BUILDING FLAMMABLE CLADDING WORLDWIDE SINCE 2005

Perth - 21 Feb 2019

CLADDING CRISIS SPREADS INTO THE SUBURBS AS NINE MORE PRODUCTS ARE CLASSED AS NON-COMPLIANT



NSW, Australia - 05 Dec 2019

1422 BUILDINGS WERE IDENTIFIED AS LIKELY CONTAINING DANGEROUS COMBUSTIBLE CLADDING

Melbourne, Australia - 25 Nov 2014

LACROSSE APARTMENT FIRE



Victoria, Australia - 28 Dec 2019

VIC BUILDERS PANIC AS FLAMMABLE CLADDING LIST HITS 1200



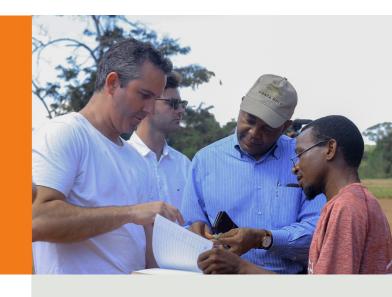


) RESPONSE¹

BUILDING IN-COUNTRY CERTAINTY

Constructive dialogue continues

- Key assurances received from Tanzanian government 16% freecarry, export of graphite concentrate
- Conclusion of Barrick negotiations with Tanzanian government is a positive sign
- Continuing to engage in constructive dialogue with government until final investment decision reached





Environmental Certificate ISSUED MAR 2016



Mining Licence GRANTED FEB 2017



Integrity Pledge

APPROVED



Local Content Plan

APPROVED



Mine Development Plan

APPROVED



Updated Relocation Action Plan WARREN KING

PHIL HOSKINS 8yrs GPX/IMX

Extensive African project development experience

**STUART MCKENZIE +12yrs GPX/IMX & Anvil Mining

HEAVENLIGHT KAVISHE

Country Manager and ex-senior government official

GRAPHEX MINING / 16

KEY PERMITS AND APPROVALS ARE IN PLACE

CHILALO'S PRODUCTION TIMETABLE

Potential production by Q4 2021 subject to final investment decision Q2 2020

	2020			20	21		202	22		
Task	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Qī	Q2
			Project/ Co	nstruction			Operations			
1 Final Investment Decision										
2 Relocation and compensation of displaced persons										
3 Engineering and design										
4 Procurement										
5 Enabling Works (Camp, Road, Water supply)										
6 Process plant fabrication and delivery										
7 Bulk Earthworks										
8 Concrete Works										
9 Erection of Steel, Mechanical and Platework										
10 Piping, Electrical and Instrumentation										
11 TSF Construction										
12 Mining (establishment and pre-production only)										
13 Commissioning (pre and water commissioning)										
14 Ramp -up (on ore)										
15 Name Plate Production										



strategy complements traditional mining model

construction funding



CORPORATEOVERVIEW

CAPITAL STRUCTURE			MAJOR SHAREHOLDERS	BOARD & MANAGEMENT			
	Market Cap	A\$17M	J P Morgan Nominees Australia Limited	8.3%	Stephen Dennis	Non-executive Chairman	
	Shares on Issue	101M	BNP Paribas Nominees <drp></drp>	6.5%	Daniel Saint Don	Non-executive Director	
	Unlisted Options	5.9M	Capital DI Limited	6.0%	Phil Hoskins	Managing Director	
			BNP Paribas Nominees <ib au="" noms<="" th=""><th>5.2%</th><th>Warren King</th><th>Project Manager</th></ib>	5.2 %	Warren King	Project Manager	
			Retail Client DRP>		Chris Knee	CFO	
	JORC TABLE		MMG Exploration Holdings	3.5%	Stuart McKenzie	Company Secretary/	
						Commercial Manager	

DOMAIN	CLASSIFICATION	TONNES (MT)	TGC%	CONTAINED GRAPHITE (KT)
High-grade zone	Probable Reserve	9.2	9.9	878
Total ore reserves	Probable Reserve	9.2	9.9	878
High-grade zone	Indicated	10.3	10.5	1,082
High-grade zone	Inferred	9.8	9.3	908
Total high-grade resource	Indicated and Inferred	20.1	9.9	1,991
Low-grade zone	Inferred	47.3	3.5	1,677
Total resource	Indicated and Inferred	67.3	5.4	3,667

