

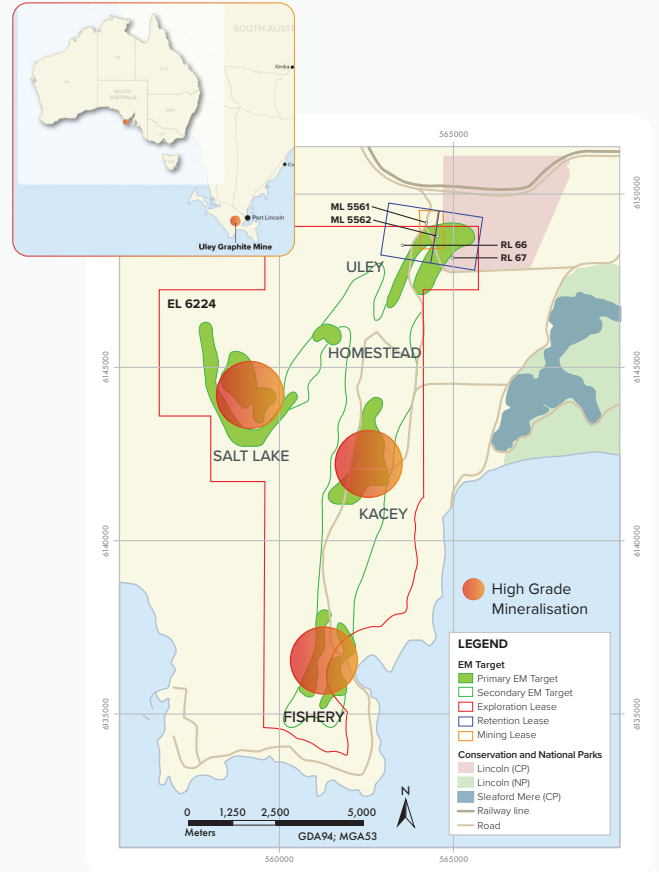
# ULEY 2 HIGHLIGHTS (STAGE 1 ONLY)

## About Quantum Graphite Limited

Quantum Graphite is the ASX-listed owner of the century old Uley graphite mine and the broader Mikkira Deposit located in South Australia's Eyre Peninsula, one of the world's largest natural coarse flake graphite deposits

### Company Highlights

- Only coarse graphite company that is fully permitted and development ready and has executed a binding offtake agreement for 50% of its production with a major European trading group
- Only global flake graphite producer that has prequalified with major European and north Asian manufacturers
- Only graphite company that has a decades long history of supplying major European and north Asian refractory manufacturers
- Only graphite company that has an exclusive graphite supply arrangement with Sunlands Energy Co., a leading thermal energy storage technology company
- Only graphite company that has an exclusive arrangement with Sunlands Pure LLC which has designed and developed proprietary advanced processing technologies for the production of graphite products for the energy/renewables industry from Uley 2 flake concentrate
- All mineral tenements are 100% owned including Mining Leases 5561 and 5562 (Uley 2 Project), Retention Leases 66 and 67 and Exploration Licence 6224



## Corporate



### Capital Structure

Shares on Issue 324,000,000 million.

On a fully diluted basis 334,706,429 million.

Top 50 Shareholders >75%.

Board Representation represents approximately >40% shareholding.

Clean balance sheet – as at 31 December 2023 no term debt, rehab liability of \$0.56 million matched by security bond of \$1.07 million with South Australia Department of Energy and Mining (DEM).



### Board of Directors

Bruno Ruggiero,  
Chairman

Sal Catalano,  
Managing Director

Michael Wyer

David Trimboli

Rochelle Pattison,  
Company Secretary



### Key Management and Technical Partners

Chief Financial Officer,  
Pauline Borg

Metallurgical, Mineral  
Process Engineers  
(Lycopodium Minerals)

Thermal Process Engineers  
(ProTherm Systems)

High Temperature  
Research Partner  
(TU Freiburg, INEMET)

# ULEY 2 HIGHLIGHTS (STAGE 1 ONLY)

## Uley 2 Project Technicals

Total undiscounted cash flow	A\$990.4 million <sup>1</sup>
Crusher feed	1,200,000 tonnes per annum
Graphitic carbon grade	11.89%
Graphitic carbon recovery	84%
Concentrate purity	97% graphitic carbon (gC)
Capital expenditure	A\$152.7 million
Processing cost (PCAF)	A\$236.05 per tonne (inclusive of admin)
Mining cost (MCAF)	A\$2.5/t milled at surface plus 5c for every 4m
Production	100,000 dmt per annum
Product Cost (Av LOM)	US\$401.14 dmt (inclusive of drying and bagging)
Product Price (Ex-works)	US\$1,225 dmt

<sup>1</sup> Includes JORC 2012 Reserves and Resources



Detailed graphic of the Uley 2 minesite process plant

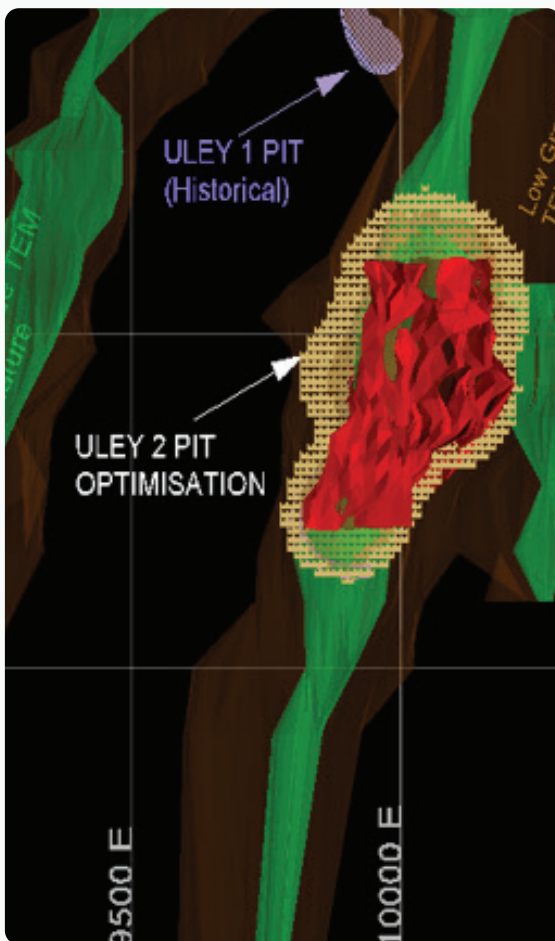


Illustration of the Uley 2 pit and surrounding (green) extensions to main Uley 2 ore body.

## Uley 2 Project Overview

**Status:** DFS completed for Uley 2 (Stage 1) December 2019. Updated DFS completed December 2023

**Location:** Eyre Peninsula, South Australia; 20km west-south-west of Port Lincoln

**Government approvals:** All approvals obtained pursuant to South Australian Department of Energy and Mining Program for Environment Protection and Rehabilitation PEPR 2014/110

**Project readiness:** Immediate

**Stage 1 mine life:** 12 years (Stage 1)

**Mineral Resources or Reserves (JORC 2012):** Total Mineral Resources 7.2Mt @ 11.10% TGC; Total Ore Reserves 4.3Mt @ 11.89% TGC

Uley 2 & 3	Measured	800	15.6
	Indicated	4,200	10.4
	Inferred	2,200	10.5
<b>TOTAL</b>		<b>7,200</b>	<b>10.5</b>

<sup>2</sup> Released to the market on 18 November 2021 and includes Proved and Probable resources of 4.003 million tonnes

**Stage 1 production level:** Uley 2 processing plant will produce a minimum of 100,000 tonnes of high purity coarse flake concentrate

**Processing path and methodology:** Liberation of graphite particles through crushing and grinding followed by flotation and polishing sections. Multi-stage polishing critical to enhanced flake graphite recoveries and maximising purity and coarse flake size

**Offtake agreements in place:** Binding offtake agreement executed with Swiss trading group MRI Trading AG for 50% of Uley 2 production for a minimum of 5 years

# ULEY 2 HIGHLIGHTS (STAGE 1 ONLY)

## Uley 2 Vertically Integrated Product Strategy



### Uley 2 Minesite Concentrate Products

Minesite processing path and production profile for Uley 2 will focus on high purity coarse flake production of approximately 100,000 tonnes per annum. Details of flake product mix is set out below.

**Comprehensive met results confirm high quality production mix that has been generated for decades**

- Medium to Extra-Large Flake - 73% of overall production of gC
- Large and Extra-Large Flake purities - 97.2%gC and 97.8%gC respectively
- Process Recoveries - > 89%gC

Size Fraction (µm)	Size Fraction (Mesh)	Approx. Weight Dist. (%)	Graphitic C Purity (%)
+300	+50	10.5	97.8
-300+150	-50+100	35.4	97.3
-150+75	-100+200	27.1	97.2
-75	-200	27.0	90.7

### Sunlands Pure Purification Products

- Sunlands Pure is QGL's purification technology partner. It was established by the Sunlands Energy Co. following agreement with QGL for the specific purpose of undertaking all downstream purification of Uley 2 flake graphite concentrate
- The Sunlands Pure process is uniquely capable of purifying natural flake graphite to a purity of 99.9% graphitic carbon *at each of the size fractions of the concentrate product mix*

Size Fraction (µm)	Size Fraction (Mesh)	Approx. Weight Dist. (%)	Graphitic C Purity (%)
+300	+50	10.5	99.9
-300+150	-50+100	35.4	99.9
-150+75	-100+200	27.1	99.9
-75	-200	27.0	99.9

- Sunlands Pure will deliver this critical material to key markets including manufacturers in the Li-ion battery, isostatic graphite and thermal energy storage market segments

