

# Vittangi Graphite Project

Located in north Sweden approximately 20km east of LKAB's iron ore mine and railhead at Svappavaara, the Vittangi graphite project (containing the Nunasvaara and Niska deposits) has a current total JORC (2012) resource of 35 million tonnes ("Mt") at 23.8% graphite ("Cg") – Europe's highest grade graphite mineral resource defined under JORC/NI 43-101 codes. The Vittangi graphite deposit has been declared a mineral deposit of national interest by the Swedish Geological Survey.

## Vittangi Graphite Project – Total JORC (2012) Mineral Resource Estimate

The Vittangi Graphite Project Mineral Resource estimate was disclosed on 6 October 2023 in accordance with the 2012 JORC Code (ASX:TLG 6 October 2023).

Deposit	Resource Category	Tonnage (t)	Graphite (%Cg)	Contained Graphite (t)
Nunasvaara South	Indicated	8,406,000	25.0	2,101,000
	Inferred	2,737,000	24.5	671,000
Nunasvaara North	Indicated	4,138,000	27.6	1,142,000
	Inferred	1,464,000	17.2	252,000
Nunasvaara East	Indicated	2,942,000	23.5	692,000
	Inferred	1,466,000	23.0	338,000
Niska North	Indicated	7,503,000	23.3	1,745,000
	Inferred	1,621,000	23.0	373,000
Niska Link	Indicated	974,000	17.5	171,000
	Inferred	815,000	20.3	165,000
Niska South	Indicated	2,728,000	23.1	631,000
	Inferred	225,000	19.7	44,000
<b>Total</b>	<b>Indicated</b>	26,691,000	24.3	6,482,000
	<b>Inferred</b>	8,329,000	22.1	1,844,000
<b>Total</b>	<b>Indicated &amp; Inferred</b>	<b>35,020,000</b>	<b>23.8</b>	<b>8,326,000</b>

## Vittangi Graphite Project – Total JORC (2012) Ore Reserve Statement

The Nunasvaara Ore Reserve was disclosed in July 2021 in accordance with the 2012 JORC Code (ASX:TLG 1 July 2021) and is based on the previously disclosed Mineral Resource estimate for Nunasvaara South (ASX:TLG 17 September 2020).

Deposit	Reserve Category	Tonnage (t)	Graphite (%Cg)
Nunasvaara South	Probable	2,260,140	24.1
<b>Total</b>		<b>2,260,140</b>	<b>24.1</b>

## Exploration History

The Vittangi graphite deposits were first discovered in 1898, with trenching across the Nunasvaara deposit during 1916-18. Early work during the 1920s reviewed the possibility of using the graphite as a reducing agent in the production of pig iron, and Nunasvaara was declared a state mining field in 1929. Extensive work, including geophysics, trenching, core drilling (20 holes for 949m) and bulk sampling, was conducted by the SGU and LKAB during the period 1970-1982.

In July 2012 Talga acquired Vittangi as part of Canadian mining giant Teck's sale of its Swedish mineral projects. The Company immediately undertook a diamond drilling program at the Nunasvaara South deposit which led to the calculation of a maiden JORC 2004 compliant resource. Since then, Talga has utilised new data from drilling in 2014, 2019 and 2021, and trial mining undertaken in 2015, 2016, 2021 and 2022 to update and expand the Vittangi resources from JORC 2004 status to JORC 2012.

Following the latest Vittangi Graphite Project resource update (ASX:TLG 6 October 2023), the global Vittangi JORC (2012) mineral resource estimate stands at 35Mt @ 23.8%Cg, using a 12.5% graphite cut off grade, for 8.3Mt of contained graphite.

## Exploration Upside

The Vittangi graphite unit extends over 15km. Potential exists for a significant expansion of the resource base in the future and exploration activities are ongoing. The 2024 Vittangi Graphite Project JORC Exploration Target estimate at Vittangi is 240-350Mt at 20-30%Cg (ASX:TLG 16 May 2024).

*Note that the potential quantity and grade of the 2024 Vittangi Exploration Target is conceptual in nature, there has been insufficient exploration to estimate a Mineral Resource and it is uncertain if further exploration will result in the estimation of a Mineral Resource.*