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Technical Report

Empire State Mines 2021 NI 43-101 Technical Report (Amended)

Titan Mining Corporation

Gouverneur, New York, USA

In accordance with the requirements of National Instrument 43-101 "Standards of Disclosure for Mineral Projects" of the Canadian Securities Administrators

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AMC Project 720003

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1 Summary

1.1 Introduction

AMC Mining Consultants (Canada) Ltd. (AMC) was engaged by Titan Mining Corporation (Titan) to update the previous National Instrument 43-101 (NI 43-101) Technical Report for the Empire State Mine (ESM) operation. The previous Technical Report was titled "Empire State Mines 2021 NI 43-101 Technical Report for Titan Mining Corporation" with an effective date of 4 February 2021 and was filed on 24 March 2021. That report summarized the results of a 2021 Preliminary Economic Assessment (2021 PEA) study and was prepared following the guidelines of NI 43-101.

This Technical Report amends certain tables in Sections 1 and 14 where previously there was an incorrect computation of contained metal. This computation did not affect any other tables, calculations, or any outcomes in the PEA, or in the Technical Report.

ESM or the Property, is an underground zinc mine near the town of Gouverneur, New York State. It is located approximately 1.3 miles (mi) south-west of Fowler, in St. Lawrence County. Titan owns a total of 2,699 acres of fee simple surface and mineral rights in three towns in St. Lawrence County. The majority of the property consists of the 1,754 acres in the town of Fowler where the ESM, mill and tailings disposal facility are located. Nine parcels totalling 703 acres are owned in the town of Edwards, which includes the Edwards mine. The remainder of the fee ownership covers the Pierrepont mine which is located on four owned parcels totalling 242 acres. Titan holds 100% ownership.

The key difference between this amended Technical Report (2021 PEA) and a PEA completed in 2018 (2018 PEA) is the consideration of near surface Mineral Resources to be extracted by open pit mining. The 2021 PEA considers the economic impact of both underground and open pit mining to be processed through the existing process plant. Some adjustments are planned to include a lead concentrate circuit to treat lead mineralization from the proposed open pits.

All currency in this report is United States dollars (US\$), unless stated otherwise. Imperial and metric units are used and defined as required.

Throughout this report, words such as orebody, ore shaft and fine ore bins have been used; these refer to standard terms and do not imply the confirmed presence of Mineral Reserves.

1.2 Project description

The mine is fully developed with shaft access and mobile equipment on-site. Existing surface facilities at the mine include a maintenance shop, offices, mine dry, primary crusher, mine ventilation fans, 12,000-ton (t) covered concentrate storage building, rail siding, warehouse, and storage buildings. The mine and its facilities were maintained to good standards during the period of care and maintenance.

Mineralization is hosted within an Upper Marble rock unit, comprised of metamorphosed and complexly folded (silicified) marbles. The mineralization is located primarily in hinges of large fold structures.

The mine utilizes a combination of selective longhole stoping, modified or stepped room and pillar and mechanized Cut and Fill as mining methods. An underground crusher is in place and is capable of feeding a surface flotation concentrator with name plate capacity of 5,000 tons per day (t/d). The proposed mine plan is expected to reach an initial target production rate of 1,400 t/d for 2021 and ramp up to 1,800 t/d in 2022 for the combined open pit and underground mines. The overall mine life is projected to be seven years with open pit mining completed in year three.