



## INDEPENDENT ASSURANCE STATEMENT

**To: The Stakeholders of Lundin Mining Corporation**

### Introduction and objectives of work

Apex Companies, LLC (Apex) was engaged by Lundin Mining Corporation (LMC) to conduct an independent third-party assurance of select sustainability information presented in its 2021 Sustainability Report (the Report) for the calendar year ending in December 2021. This assurance statement applies to the related information included within the scope of work described below. The intended users of the assurance statement are LMC's management and stakeholders. The overall objective of the assurance process was to provide assurance on the accuracy, reliability, and objectivity of LMC's Report for the specific subject matter/key performance indicators (KPIs) covered by the scope of work (below).

The information that was assured and its presentation in the Report are the sole responsibility of the management of LMC. Apex was not involved in the calculation of the data or drafting of the Report. Our sole responsibility was to provide independent assurance on the selected Key Performance Indicators (KPIs).

### Assurance Standards Applied

The assurance engagement was performed in accordance with AccountAbility's AA1000 Assurance Standard (AS) v3 and was conducted to meet the AA1000AS v3 Type 2 *moderate* level of assurance requirements for most metrics.

Greenhouse gas emissions were verified to a *reasonable* level in accordance with ISO 14064-3: Second edition 2019-04: Greenhouse gases -- Part 3: Specification with Guidance for the Verification and Validation of Greenhouse Gas Statements.

### Scope of Work

LMC requested Apex to include independent assurance of the following KPIs for the calendar year 2021 reporting period:

- Safety – total recordable injury frequency rate (TRIF) and lost time injury frequency rate (LTIF);
- Total amount of water withdrawn from all sources;
- Total amount of water discharged;
- Energy consumption within LMC's operations including electricity, liquid fuels and gaseous fuels;
- Greenhouse gas emissions – Scope 1, Scope 2 (location and market based);
- Stakeholder grievances filed during the year;
- Stakeholder engagement as it relates to AccountAbility's AA1000AS v3 (2021)<sup>1</sup> principles of inclusivity, materiality, responsiveness, and impact.

A table listing the assured data is attached to this statement.

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<sup>1</sup> Published by AccountAbility: The Institute of Social and Ethical Accountability

Excluded from the scope of our work is any assurance of information relating to:

- Performance indicators and text in the report not indicated above; and
- Activities outside the defined assurance period of calendar year 2021.

This assurance engagement relied on a risk based selected sample of sustainability data and the associated limitations that this entails. The reliability of the reported data is dependent on the accuracy of metering and other measurement arrangements employed at site and corporate level, not addressed as part of this assurance. This independent engagement and assurance statement should not be relied upon to detect all errors, omissions or misstatements that may exist.

## Methodology

Apex undertook the following activities:

1. Interviews with relevant LMC personnel and LMC's consultant;
2. A site visit and associated data review and interviews with LMC personnel and external stakeholders at the Zinkgruvan Mine in Sweden;
3. Review of internal and external documentary evidence produced by LMC;
4. Audit of select KPI data presented in the Report including a detailed review of samples of data;
5. Review of LMC data and information systems and methodology for collection, aggregation, analysis, internal verification, and review of information used to determine the reported KPIs at LMC Headquarters in Toronto, Canada; and,
6. Review of the Report as it relates to the assured KPIs.

The work was planned and carried out to provide a AA1000 AS v3 Type 2 moderate level of assurance for most KPIs, and a reasonable level of assurance for Scope 1 and Scope 2 (location- and market-based) GHG emissions (ISO 14064-3: Second edition 2019-04: Greenhouse gases -- Part 3: Specification with Guidance for the Verification and Validation of Greenhouse Gas Statements), and we believe it provides a sound basis for our conclusions.

## Findings and Conclusions

On the basis of our methodology and the activities described above, it is our opinion that:

- The information and data related to the KPIs identified in the scope of work that are included in the Report are accurate, reliable, and free from significant error, material mistakes or misstatements.
- The Report provides a fair representation of LMC's activities as it relates to our scope of work over the reporting period.
- LMC has established appropriate systems for the collection, aggregation, and analysis of relevant information, and has implemented underlying internal quality assurance and quality control practices that provide a reasonable degree of confidence that such information is complete and accurate.
- The Report adequately reflects the organization's alignment to, and implementation of the AA1000AS v3 (2021) principles of Inclusivity, Materiality, Responsiveness, and Impact in its operations (further detail is provided below).
- LMC has processes in place for consulting and engaging with its key stakeholders in a structured and systematic manner.
- LMC has processes in place for recording and managing grievances through to their resolution.

## Adherence to the Principles of AA1000AS v3

As required by the AA1000AS v3 (2021) standard, outlined below are our observations relating to LMC's adherence to the principles of inclusivity, materiality, responsiveness, and impact.

### Inclusivity

LMC's Responsible Mining Policy and Stakeholder Engagement Standard outline the company's commitments regarding communities, stakeholders, and external engagement. LMC's Stakeholder Engagement Standard and supporting Stakeholder Engagement Corporate Procedure (Stakeholder Engagement Guidance document) provides the minimum requirements for sites to identify and engage with groups and individuals who may be impacted by company activities. This year when Apex visited the Zinkgruvan Mine, we observed implementation of external stakeholder engagement during our discussions with external stakeholders and LMC employees. In 2022, Apex interviewed LMC corporate employees, Zinkgruvan Mine employees, and external stakeholders of the Zinkgruvan Mine, and reviewed documentation and reports to determine stakeholder engagement during the 2021 assurance period. LMC's approach to stakeholder engagement, stakeholder engagement activities in 2021, examples of primary stakeholder groups and the key interests and concerns of each stakeholder group are described in the Community Relations and Development section of the Report. Our observations, both in this assurance period and in previous years, indicate that LMC takes stakeholder concerns into consideration and has adequately addressed the inclusivity principle in its operations and the 2021 Sustainability Report.

### Materiality

LMC commissioned a third-party consultant to conduct a materiality assessment during 2021 that included identifying issues of importance for internal and external stakeholders. The assessments with internal and external stakeholders identified the highly material issues as: public health and safety; workplace health and safety; tailings and waste management; GHG emissions; air quality, water use and efficiency; business integrity and transparency; and community relations and development. LMC conducted an internal review of material aspects identified in the 2021 materiality assessment to determine issues of importance to the company. Of these identified highly material issues, four (workplace health and safety, GHG emissions, water use, and community relations and development) were either fully covered or covered in some respects in the assurance process. LMC also identified additional material issues of interest to the business and some of their stakeholders. The additional material issues were: human rights; biodiversity; crisis management & emergency preparedness; mining business model innovation; reclamation and closure; responsible sourcing practices; diversity and inclusion; and talent attraction and retention. The Report included a discussion of these identified issues and is organized to align with the issues determined to be material to LMC's business and external stakeholders and LMC Sustainability Strategy. Based on in-person site visits to LMC mines and related in-person external stakeholder interviews during 2022 and previous years, telephone interviews with Eagle Mine external stakeholders in 2021, interviews with LMC employees, as well as our review of the Report, LMC has adequately addressed the materiality principle in its operations and the 2021 Sustainability Report.

### Responsiveness

LMC has developed internal requirements and systems to respond to stakeholder issues such as grievances and complaints in their Stakeholder Engagement Standard and associated Stakeholder Engagement Procedure (Guidance). The Guidance documents require sites to have a Stakeholder Communication and Engagement Plan and a Grievance Mechanism in place. The documents provide directions to identify, track and respond to concerns raised by stakeholders both formally and informally. Apex observed the implementation of Stakeholder Engagement Guidance and the Grievance Mechanism through our discussions with external stakeholders and/or LMC employees during our visits to the Zinkgruvan Mine (2018 and 2022), Candelaria Mine (2019), Eagle Mine (2017), and our remote/virtual visit to the Eagle Mine in 2021. We also noted the implementation during review of internal documents and reports. Reviewed responses to stakeholder concerns were observed to be timely and complete. Based on our review, we conclude that LMC has adequately addressed the responsiveness principle in its operations and the 2021 Sustainability Report.

**Impact**

LMC operates under processes to understand, measure, evaluate and manage the organization's impacts related to material topics. LMC ensures the processes are documented and integrated into the organization. LMC addresses identified impacts through management systems such as LMC's Responsible Mining Management System standard and internal and external reporting processes. The materiality assessment engaged a variety of internal and external stakeholders to identify and evaluate the key issues and impacts from LMC operations. LMC also measures impact through the company's contributions to overall economic development and prosperity in regions where they operate, including the measurement of local employment and local procurement and supporting or conducting related training programs. LMC has set goals for several sustainability related subjects and reports progress towards the goals. This provides the opportunity to evaluate the impact of initiatives on operations and stakeholders. Based on our review, we conclude that LMC has adequately addressed the impact principle in its operations and the 2021 Sustainability Report.

**Key Observations**

- LMC's commitment to Stakeholder Engagement was evident during our visit to Zinkgruvan Mine in 2022, and during our previous LMC mine visits in 2017, 2018 and 2019 to the Eagle, Zinkgruvan and Candelaria Mines, respectively. Data review and interviews with LMC personnel in previous years and during the reporting year 2021 assurance process also support LMC's engagement with stakeholders.
- A Materiality Assessment performed in 2021 provided LMC with an update of issues material to stakeholders and the business. The previous materiality assessment was performed in 2017.
- Internal data validation and quality control by corporate personnel and their consultant was evident for assured metrics.
- Energy, environmental, safety and health and stakeholder engagement data tracking and reporting at Zinkgruvan Mine has improved since our previous visit in 2018.

## Statement of independence, integrity and competence

Apex is an independent professional services company that specializes in Health, Safety, Social and Environmental management services including assurance with over 30 years history in providing these services.

No member of the assurance team has a business relationship with Lundin Mining Corporation, its Directors or Managers beyond that required of this assignment. We conducted this assurance independently and to our knowledge there has been no conflict of interest.

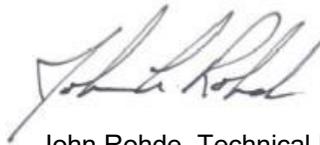
Apex has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.

The assurance team has extensive experience in conducting assurance over environmental, social, ethical and health and safety information, systems and processes, has over 20 years combined experience in this field and an excellent understanding of Apex's standard methodology for the verification and assurance of sustainability and environmental data.

### Attestation:



David Reilly, Lead Assuror  
Senior Project Manager  
Apex Companies, LLC  
Santa Ana, California, USA



John Rohde, Technical Reviewer  
Senior Consultant  
Apex Companies, LLC  
Lakewood, Colorado, USA



**AA1000**  
Licensed Report  
000-54/V3-FR407

**Lundin Mining Corporation Data and Information Subject to Assurance - 2021**

Type	Unit	Results for 2021
<b>Fuels and Energy</b>		
Purchased Fuels (Scope 1)	Gigajoules	6,110,883
Purchased Electricity (Scope 2)	Gigajoules	5,820,311
Total Energy Consumption (Scope 1 and 2)	Gigajoules	11,931,194
<b>Emissions</b>		
Direct CO <sub>2</sub> e Emissions (Scope 1)	Metric Tons CO <sub>2</sub> e	478,253
Indirect (purchased electricity) CO <sub>2</sub> e Emissions (Scope 2) (Location-based)	Metric Tons CO <sub>2</sub> e	480,754
Total Scope 1 and Scope 2 CO <sub>2</sub> e Emissions (Location-based)	Metric Tons CO <sub>2</sub> e	959,007
Indirect (purchased electricity) CO <sub>2</sub> e Emissions (Scope 2) (Market-based)	Metric Tons CO <sub>2</sub> e	510,241
Total Scope 1 and Scope 2 CO <sub>2</sub> e Emissions (Market based)	Metric Tons CO <sub>2</sub> e	988,494
<b>Water</b>		
Total Water Withdrawal	Mega Liters	81,831
Total Water Discharged	Mega Liters	27,758
<b>Safety</b>		
Total Recordable Injury Frequency Rate (TRIF)	TRIF is calculated as [total number of recordable injuries (including fatalities, lost time injury, restricted work and medical treatment injury) x 200,000 hours] / total hours worked	0.54
Lost Time Injury Frequency Rate (LTIF)	LTIF is calculated as (total lost time injuries x 200,000 hours) / total hours worked	0.39
<b>Stakeholder Engagement and Grievance Mechanism</b>		
Stakeholder Engagement	NA	LMC was found to be effectively engaging with Stakeholders and considering stakeholder input in adherence to the AA1000 v3 principles of inclusivity, materiality, responsiveness, and impact.
Grievance Mechanism	NA	LMC has a functioning grievance mechanism in place and is being used.
Grievances Filed	Number of grievances filed during 2021 company wide	75