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A.5 – EFFECTS ASSESSMENT METHODOLOGY

A.5.1 INTRODUCTION

Section 5 of the Proposal outlined the assessment methods and framework for the assessment of potential effects utilized for the Proposal, which were developed in accordance with current YESAB guidance (YESAB 2005) and are considered best practices from other national and international regimes. Casino Mining Corporation (CMC) believes that the assessment method used is an effective tool for CMC to determine the potential for significant adverse residual effects as a result of the Project, after the implementation of appropriate mitigation measures.

On January 27, 2015, the Executive Committee requested that Casino Mining Corporation (CMC) provide supplementary information to the proposed Casino Project (YESAB Project No. 2014-0002) to enable the Executive Committee to commence Screening. The Executive Committee considered comments from various First Nations, Decision Bodies and regulators on the adequacy of the Proposal in preparation of the Adequacy Review Report (ARR). Casino Mining Corporation is providing this Supplementary Information Report (SIR) to comply with the Executive Committee's ARR; CMC anticipates that the information in the SIR and Proposal, when considered together, is adequate to commence Screening.

The Executive Committee has one request that CMC has identified as related to information presented in Section 5 Effects Assessment Methodology of the Project Proposal submitted on January 3, 2014. This request is outlined in Table A.5.1-1, and is responded to below.

Table A.5.1-1 Requests for Supplementary Information Related to Effects Assessment Methodology

Request #	Request for Supplementary Information	Response
R445	Add a valued component and assessment for worker health and safety to the Project proposal.	Section A.5.2.1.1

Notes:

1. Request # refers to the assigned identification number in the YESAB Adequacy Review Report January 27, 2015 Prepared by Executive Committee Yukon Environmental and Socio-economic Assessment Board.
2. Response refers to the location of CMC's response to the YESAB request for supplementary information.

A.5.2 HUMAN HEALTH RISK ASSESSMENT

A.5.2.1.1 R445

R445. Add a valued component and assessment for worker health and safety to the Project proposal.

Casino Mining Corporation had defined Valued Components (VCs) as environmental and socio-economic components of the environment that are considered by CMC, the public, First Nations, technical specialists, YESAB and/or other government agencies involved in the assessment process to have scientific, ecological, economic, social, cultural, archaeological, historical, or other importance. The selection of VCs for the Proposal was informed by professional judgement, the experience of CMC and its consultants and through engagement with YESAB, First Nations, and local community representatives.

YESAB has requested that worker health and safety be added as a VC to the Proposal to allow the Executive Committee to assess potential Project effects to human health. Under the Yukon *Occupational Health and Safety Act (2002)*, a "worker" is a person who performs services for the employer under an express or implied contract of employment or apprenticeship, and includes (a) any person engaged in training for mine rescue work and any

person who is doing rescue work at a mine after an accident, and (b) the employees of a contractor who is engaged in operations under a contract the contractor has with another person.

Worker health and safety was not selected as a VC by CMC because:

- Worker health and safety is protected by a legally binding government requirement that requires mandatory compliance;
- Existing regulations and guidelines to ensure the protection of Worker Health and Safety have been developed based on a wealth of information and knowledge regarding potential effects;
- Worker health and safety is restricted to workers and by definition does not include the public;
- Public access to the mine site and Freegold Road Extension is controlled; and
- Management and response plans will outline procedures to protect worker health and safety.

The *Occupational Health and Safety Act* and its supporting regulations and guidelines have been developed based on a wealth of information and knowledge regarding typical mine-related activities and the potential to adversely affect worker health and safety. The regulatory frameworks that have been established, which require mandatory compliance, are intended to avoid potentially significant adverse effects to worker health and. CMC is required to comply with the *Occupational Health and Safety Act* and related regulations (such as the *Explosives Act* and the *Transportation of Dangerous Goods Act*) and guidelines, and therefore additional analysis of potential effects on worker health and safety is not warranted, as potential effects are not acceptable outcomes under the governing Acts.

It is reasonable to expect that all workers for the Project will be performing services and carrying out Project-related activities within the mine site or within transport vehicles that will travel along pre-designated roads and highways. There is very limited, to no potential for the public and Project activities within the Casino mine site or along the Freegold Road Extension to interact because access is controlled at these locations.

Under the *Quartz Mining Act (2003) Section 10 Safety of Public* "A mining recorder may summarily order any mining works to be so carried on as not to interfere with or endanger the safety of the public or any employee of the mining works, any public work, highway, mining property or mineral claim, mining claim, bed-rock drain or bed-rock flume, and any abandoned works shall by the order of the mining recorder be either filled up or guarded to his or her satisfaction". The Casino mine site and Freegold Road Extension is proposed to be private property of CMC, with controlled access throughout the life of the Project; in general, the public will not be allowed within the mine site or on the Freegold Road Extension without the prior consent of CMC.

In addition, CMC is required to provide mine management, and environmental management plans that outline the structure in place to manage risks to worker health and safety. The Proposal and SIR present several of these conceptual management plans, including:

- Appendix 22C Cyanide Management Plan;
- Appendix 22B Emergency Response Plan;
- Appendix A.22A Waste and Hazardous Materials Management Plan;
- Appendix A.22B Spill Contingency Management Plan;
- Appendix A.22E Road Use Plan (replaces Appendix 22A Road Use Plan); and
- Appendix A.22G Liquid Natural Gas Management Plan.

All Project related activities will be conducted in a manner that minimizes risk to worker health and safety through training, awareness, and continuous improvement. Worker health and safety is the primary objective of the detailed *Occupational Health and Safety Plan* that will be developed by CMC and submitted to the Yukon Government for review and approval as part of the Quartz Mining License application (Yukon Water Board 2013). The detailed *Occupational Health and Safety Plan* will outline potential worker exposure scenarios and procedures to minimize worker exposure. The *Occupational Health and Safety Plan* will also outline how worker health and safety will be monitored and what measures will be utilized in exposure situations. In addition to the detailed *Occupational Health and Safety Plan*, CMC will be required to submit other plans for the Quartz Mining License application that are related to worker health and safety, including:

- A description of all dust control measures that will be employed to ensure worker health and safety and minimize effects on the environment;
- A Spill Contingency Plan to communicate to staff, contractors, and workers the actions to be taken when responding to spills during mine construction, operation and closure; and
- An Emergency Response Plan which will be reviewed for completeness by the Yukon Workers' Compensation Health and Safety Board.

For the reasons identified above, worker health and safety was not selected as a VC for the Proposal and CMC believes that additional analysis of potential effects on worker health and safety as part of the Proposal is not warranted.