



# Grassy Mountain Gold Project

## Update on Environmental Evaluation and Socioeconomics Analysis

Adam Bonin

Technical Review Team Meeting  
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# Cardno's Role on Grassy Mountain Gold

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- Provide technical and communication support to DOGAMI and the Technical Review Team (TRT) throughout the permit application process.
- Assist DOGAMI and the TRT with the identification of feasible alternatives to the proposed project.
- Prepare the Environmental Evaluation (EE) to determine impacts of the proposed project and alternatives to environmental resources in the project vicinity.
- Prepare the Socioeconomics and Environmental Justice reports that identify and describe the positive and negative impacts of the proposed project and alternatives.

# Environmental Evaluation (EE)

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Compliance with Oregon regulatory requirements (ORS 517.979 and OAR 632-037-0085)

## The purpose of an EE shall be to:

- *“...address specific impacts of a mining operation in order to allow affected agencies to make decisions on whether to issue or deny a permit and develop permit conditions.”*
- *“...provide full and fair discussion of significant environmental impacts and shall inform decision makers and the public of reasonable alternatives that would avoid or minimize adverse impacts and/or enhance the quality of the human and natural environment.”*
- *“...focus on significant environmental issues and alternatives.”*

# EE - Scope

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**Scope of the EE** to be determined by the TRT following consultation with the PCC and engagement with the Public. Preliminary approval anticipated in late August.

The EE will contain:

- **Existing Conditions (or Affected Environment)**
  - Summary of baseline data reports
- **Alternatives Analysis**
  - Each alternative (Proposed Action, No Action, etc.) thoroughly evaluated for comparison
- **Impact Analysis**
  - Potential causes and impacts of proposed action and credible accidents on the environment (including social resources)
- **Cumulative Impact Analysis**
  - Total cumulative impact resulting from incremental impact of Proposed Action
- **Mitigation**
- ***\*Best Available, Practicable and Necessary Technology***

# EE – Preliminary Draft Outline

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## Executive Summary

### Chapter 1 - Introduction

- Project description
- EE purpose
- Regulatory framework
- Agency permits and decisions

### Chapter 2 – Project Description and Alternatives

- Calico's proposed project
- Alternatives analysis:
  - Identification of project alternatives being considered
  - Consideration and elimination of infeasible alternatives
  - Identification of alternatives being carried through the impact analysis

# EE – Preliminary Draft Outline

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## Chapter 3 – Impact Analysis

- Existing conditions for environmental resources listed in Division 37 Consolidated Permitting of Mining Operations
- Impacts from proposed action and alternatives

## Chapter 4 – Cumulative Impact Analysis

- Identification of other projects and actions (e.g., RFFAs) (with TRT)
- Potential cumulative effects

## Chapter 5 – Mitigation

- Mitigation measures identified by the TRT in addition to regulatory standards and requirements and Calico-sponsored measures (e.g., BMPs)

## Chapter 6 – References

# EE – Preliminary Draft Outline

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## Technical Appendices

- Cyanide Chemistry
  - General chemistry
  - Application in gold mining and specific role for Proposed Action
  - Fate and transport
  - Human health and ecological toxicity and risk
- Credible Accidents
  - Unanticipated releases of cyanide
  - Natural events including earthquakes (exceed design standards)
  - Human error
  - Extreme weather, fire, etc.

# Socioeconomics Report - Scope

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**Scope** to be determined by the TRT following consultation with the PCC and engagement with the Public. Preliminary approval anticipated in late August.

Socioeconomics and Environmental Justice report will contain:

## **Chapter 1 - Introduction**

- Geographic and temporal scope, data sources, technical approach

## **Chapter 2 – Demographic and Economic Baseline Profile**

- Population, race and ethnicity, housing, public safety, regional economy (economic setting, income and poverty, education and employment, etc.)
- Environmental Justice (race, ethnicity, minority communities, poverty and low income communities, tribal communities, traditionally underrepresented communities, other sensitive populations)



# Socioeconomics Report - Scope

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## Chapter 3 – Impacts and Mitigation Measures

- Employment and income
- Population
- Housing
- Public revenue, public safety, community facilities services

## Chapter 4 – References

# State and Federal Agency Coordination

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## According to OAR 632-037:

- When a mining operation is proposed on federal land, the state consolidated application process established (in ORS 517.952 to 517.989) must be coordinated with the federal application process to the fullest extent possible.
- Coordinate the timeliness for preparation and content of the EE and the Environmental Assessment (EA) or Environmental Impact Statement (EIS)
- Ensure that data, information and documents satisfying ORS 517.952 to 517.989 for the EE also satisfy NEPA.
- Cardno, on behalf of DOGAMI, will provide close coordination with BLM and its contractor, HDR during EE and EIS preparation, respectively.

# Thank you

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For more information

Adam Bonin  
Project Manager  
Portland Office: +1 503 575 3317

[www.cardno.com](http://www.cardno.com)