



# **SOCIOECONOMICS AND ENVIRONMENTAL JUSTICE VOL 2 IMPACT INDICATORS AND METHODS**

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## **TWIN METALS MINNESOTA PROJECT**

Environmental Review Support Document

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Prepared for Twin Metals Minnesota, LLC  
Prepared by

Document No. TMM-ES-025-0147-02  
Revision 0A  
November 20, 2020



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**REVISION RECORD**

| Revision | Date       | Description                       | EDMS Download Date | Project Configuration Version |
|----------|------------|-----------------------------------|--------------------|-------------------------------|
| 0A       | 11-20-2020 | Submitted for Agency Review – TOC |                    |                               |
|          |            |                                   |                    |                               |

**REVISION NARRATIVE**

**DISCLAIMER**

*This document is a working document. This document may change over time because of new information, or further analysis or deliberation.*



## **1.0 INTRODUCTION**

The Twin Metals Minnesota, LLC (TMM) Project (Project) is focused on designing, permitting, constructing, and operating an underground copper, nickel, cobalt, platinum, palladium, gold, and silver mining project. Located approximately nine miles (14 kilometers [km]) southeast of Ely, Minnesota, and 11 miles (18 km) northeast of Babbitt, Minnesota, the Project targets valuable state, federal, and private minerals within the Maturi deposit, which is a part of the Duluth Complex geologic formation.

All potential Project infrastructure locations presented herein are considered preliminary and are undergoing further design and engineering evaluations which will dictate final design and locations. Further information about TMM and the Project is located at <http://www.twin-metals.com/>.

The purpose of this document is to provide necessary information for the environmental review and permitting process. TMM retained [insert Consultant name] (insert abbreviated Consultant name) to complete [insert text].

## **2.0 SUMMARY**

- Provide a high level summary of what is presented within this report.
- Describes rationale for selection of indicators.
- Describes methods and approach in development of impact criteria.
- Describes rationale and approach for selection of the area of analysis.
- Describe how this report volume relates to the other volumes.
  - Indicate regulatory framework and proposed action and alternatives are defined in other volumes of the *Socioeconomics and Environmental Justice Data Package*.
- Reference relevant sections of the FSDD, SEAW, and / or federal documents to remind the reader there is a defined scope that is being followed.

## **3.0 IMPACT ASSESSMENT CRITERIA**

### **3.1 Impact Assessment Indicators and Methods**

Indicators and methods for assessing direct and indirect impacts will be described within this section. Assessment methods will be presented separately for socioeconomics and environmental justice.

### **3.1.1 Socioeconomics**

Indicators and methods for assessing direct and indirect socioeconomic impacts will be described within this section, including the following:

- Changes in local / regional population, employment, or earnings;
- Changes in public sector revenues, expenditures, and fiscal conditions of local governments;
- Changes in economic activity for non-mining industries;
- Changes in demand for housing during all phases of the Project;
- Changes in demand for public services and infrastructure;
- Changes in demand for construction services; and
- Timeline for analysis will be for the construction, operation, and closure phases.

### **3.1.2 Environmental Justice**

Indicators and methods for assessing direct and indirect environmental justice impacts will be described within this section, including the following:

- Changes that have disproportionate effects on any population group;
  - minority or low-income populations
- Changes that have disproportionate effects on people within the recreation sector; and
- Timeline for analysis will be for the construction, operation, and closure phases.

## **3.2 Area of Analysis**

Discussions will be provided to describe the area of analysis of potential effects for socioeconomics and environmental justice.

### **3.2.1 Socioeconomics**

A discussion will be provided to describe the area of analysis of potential effects.

- Arrowhead region of northeastern Minnesota, which includes Cook, Lake, and St. Louis Counties

### **3.2.2 Environmental Justice**

A discussion will be provided to describe the area of analysis of potential effects.



- Arrowhead region of northeastern Minnesota, which includes Cook, Lake, and St. Louis Counties

## **4.0 REFERENCES**



**TWIN METALS MINNESOTA PROJECT  
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## **TABLES**



## **FIGURES**





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## **APPENDICES**



**APPENDIX [#A, B, C, D]**

**[APPENDIX TITLE]**



## **APPENDIX [#A, B, C, D]**

### **[APPENDIX TITLE]**

*[Insert page break for each additional appendix.]*