CALICO RESOURCES USA CORP. GRASSY MOUNTAIN MINE PROJECT MALHEUR COUNTY, OREGON

OUTSTANDING NATURAL AREAS BASELINE REPORT

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LIST OF ABBREVIATIONS AND ACRONYMS

BLM	Bureau of Land Management
NCL	National Conservation Lands

NLCS National Landscape Conservation System

ONA Outstanding Natural Area
Project Grassy Mountain Mine Project

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1 INTRODUCTION

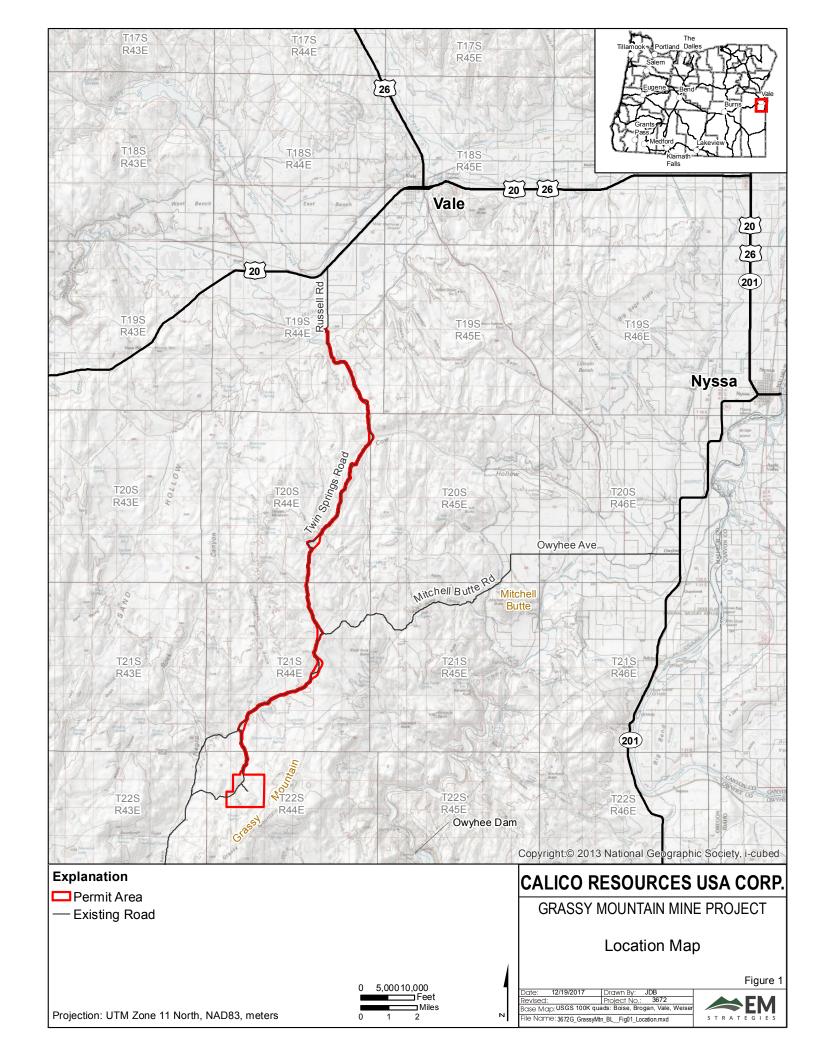
The purpose of the Outstanding Natural Areas (ONAs) baseline study is to document any ONAs near the Grassy Mountain Mine Project (Project). This baseline report will be included in the Consolidated Permit Application (Oregon Administrative Rule 632-037-0055) submitted to the Oregon Department of Geology and Mineral Industries.

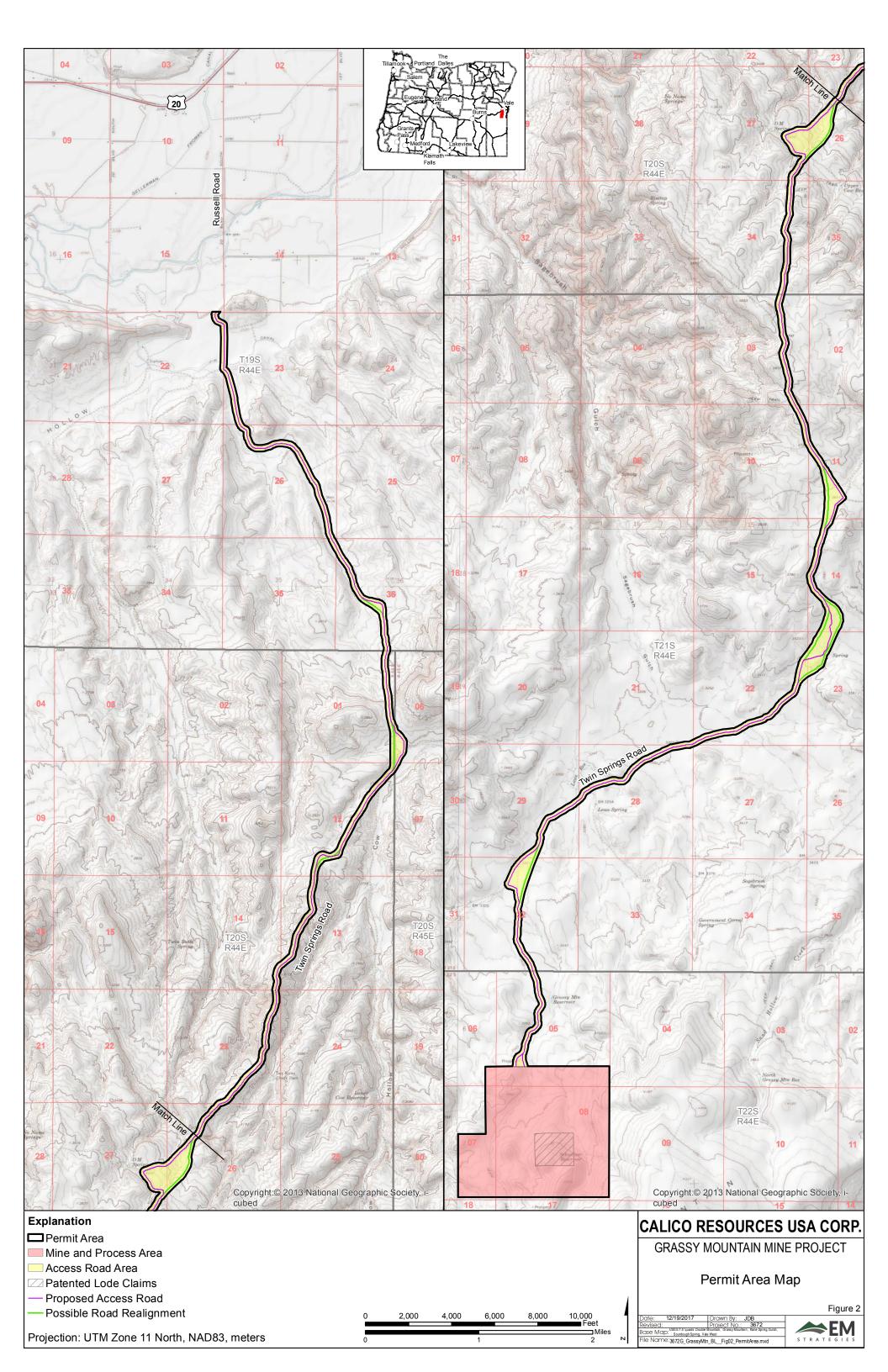
2 RESOURCE STUDY AREA

The Project is located in Malheur County, Oregon, approximately 22 miles south-southwest of Vale (Figure 1) and consists of two areas: the Mine and Process Area and the Access Road Area (Permit Area) (Figure 2).

The Mine and Process Area is located on three patented lode mining claims and unpatented lode mining claims that cover an estimated 886 acres. These patented and unpatented lode mining claims are part of a larger land position that includes 419 unpatented lode mining claims and nine mill site claims on lands administered by the Bureau of Land Management (BLM) (Figure 2). All proposed mining would occur on the patented claims, with some mine facilities on unpatented claims. The Mine and Process Area is in all or portions of Sections 5 through 8, Township 22 South, Range 44 East (T22S, R44E) (Willamette Meridian).

The Access Road Area is located on public land administered by the BLM, and private land controlled by others (Figure 2). A portion of the Access Road Area is a Malheur County Road named Twin Springs Road. The Access Road Area extends north from the Mine and Process Area to Russell Road, a paved Malheur County Road. The Access Road Area is in portions of Section 5, T22S, R44E, Sections 3, 10, 11, 14, 15, 21 through 23, 28, 29, and 32, T21S, R44E, Sections 1, 12 through 14, 23, 26, 27, and 34, T20S, R44E, Sections 6 and 7, T20S, R45E, and Sections 22, 23, 26, 35, and 36, T19S, R44E (Willamette Meridian). The width of the Access Road Area is 300 feet (150 feet on either side of the access road centerline) to accommodate possible minor widening or re-routing, and a potential powerline adjacent to the access road. There are several areas shown that are significantly wider than 300 feet on the Permit Area Map (Figure 2), which are areas where the final alignment has not yet been determined. The final engineering of the road will be consistent throughout, and within the Permit Area. The Access Road Area also includes a buffer on either side of the proposed road width for the collection of environmental baseline data. The road corridor will be 40 feet wide, which includes a 24-foot wide road travel width (12 feet on either side of the road centerline), four-foot wide shoulders on each side of the road, minimum one-foot wide ditches on each side of the road, and appropriate cut and fill. The Access Road Area totals approximately 876 acres.





3 REGULATORY FRAMEWORK

3.1 <u>Federal</u>

3.1.1 National Conservation Lands

The National Landscape Conservation System (NLCS) was established through the Omnibus Public Land Management Act of 2009 (Public Law 111-11). The purpose of the NLCS was to "conserve, protect, and restore nationally significant landscapes that have outstanding cultural, ecological, and scientific values for the benefit of current and future generations." The NLCS is now known as National Conservation Lands (NCL). The BLM manages ONAs through NCL.

4 STUDY METHODOLOGY

4.1 <u>Literature Review</u>

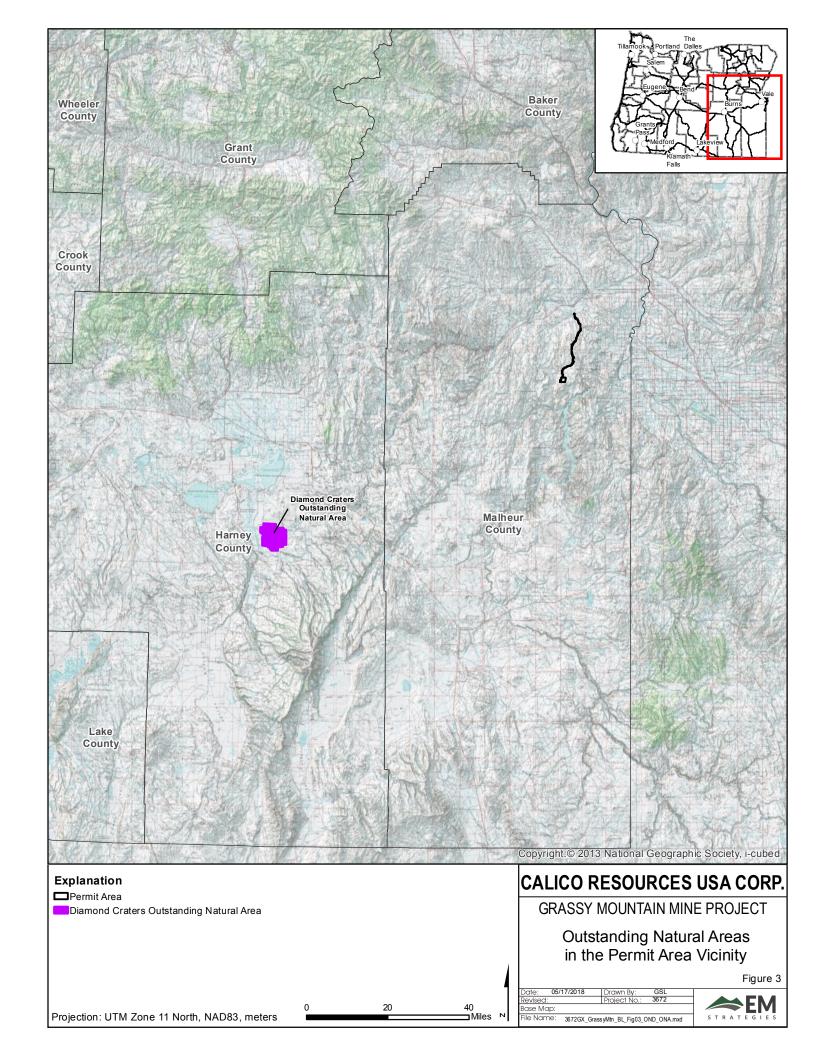
The baseline characterization outlined in this report has been taken from a list of National Conservation Areas and Similar Designations on the BLM's National Conservation Lands webpage (BLM 2016).

4.2 <u>Field Studies</u>

Field studies were not necessary for this baseline study per the *Environmental Baseline Study Work Plans* (EM Strategies, Inc. 2017).

5 BASELINE CHARACTERIZATION

The BLM list identifies only one ONA in Oregon: the Yaquina Head ONA, located along the coast in Newport, Oregon (BLM 2016). Additional internet searches also identified the Diamond Craters ONA (BLM 2018). The Diamond Crater ONA is located approximately 77 miles southwest of the Permit Area (Figure 3).



6 BIBLIOGRAPHY

Bureau of Land Management (BLM). 2016. *National Conservation Lands; About NCL; Maps, Data, and Resources*. https://www.blm.gov/programs/national-conservation-lands/about/maps-data-and-resources. Accessed May 7, 2018.

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EM Strategies, Inc. 2017. Environmental Baseline Study Work Plans, Grassy Mountain Project. September 2017.

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