
Final Environmental Impact Statement
Thacker Pass Lithium Mine Project

Appendix Q

Cumulative Effects to Golden Eagles

This page intentionally left blank.

APPENDIX Q. CUMULATIVE EFFECTS TO GOLDEN EAGLES

Results of the Golden Eagle Local Area Population (LAP) Analysis for Thacker Pass Mine Nest Disturbance Application 76086D

May 11, 2020

Focal Project: Thacker Pass Mine

Predicted eagle take (annual)	0.59
-------------------------------	------

Local Area Population (LAP) Estimates by Local Area Density Unit (LADU):

Focal Project Density Unit	Estimated Number of Eagles
Thacker Pass Mine_ GREAT_ BASIN	787.07
Thacker Pass Mine LAP (total)	787.07
5% LAP Benchmark	39.35

Permitted Projects with Overlapping LAPs:

Project ID	Estimated Annual Take	% Overlap With Focal Project	Acres of Overlap	Overlapping Take
Project 90099B	0.59	61.03%	22762.58	0.36
All Projects (total)	0.59			0.36

Pending (reasonably foreseeable) Eagle-Permit Applications in the LAP:

Pending Project ID	Estimated Annual Take	Percent Overlap With Focal Project	Overlapping Area (SqMi)	Overlapping Take
None	0	0	0	0
All known pending Applications (total)	0	0	0	0

Known Unpermitted Take Summary

Golden Eagle Mortality Cause	All Known	Reported Years
Emaciation; Trauma	1	2014-2014
Collision with vehicle; Poisoned (lead); Poisoned (pesticide)	1	2015-2015
Shot	7	2004-2020
Collision/electrocution	1	2014-2014
Collision with vehicle	5	2014-2016
Collision with wind turbine	1	2014-2014
Unknown	73	2011-2019
Killed/injured by animal	2	2002-2013
Determination pending	1	2014-2014
Disease	2	2006-2017
Collision	2	2017-2017
Electrocution	142	2001-2020
Collision with wire	5	2014-2018
Poisoned (pesticide); Trauma	1	2014-2014
Trauma	3	1994-2013
Starvation	1	2015-2015
Other	6	2014-2015
Poisoned (lead)	2	2014-2018
Poisoned (pesticide); Infection; Starvation	1	2014-2014

Total = 257 eagles over 20 years

Annual mean average = **12.85 golden eagles/year**

Cumulative Take Results	Number of Eagles (Annual)	Percent of LAP
Permitted Take		
Total Overlapping Take	0.36	0.046%
Focal Project Predicted Take	0.59	0.075%
Pending Applications	0.0	0.00%
Unpermitted Take	12.85	1.63%
TOTAL	13.80	1.75%

LAP Benchmark (for comparison)	39.35	5.0%
--------------------------------	-------	------