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23 UNITED STATES DISTRICT COURT
24 DISTRICT OF NEVADA

WESTERN WATERSHEDS PROJECT;)	Case No.:
GREAT BASIN RESOURCE WATCH;)	
BASIN AND RANGE WATCH; and)	
WILDLANDS DEFENSE,)	COMPLAINT FOR VACATUR,
)	EQUITABLE, DECLARATORY
Plaintiffs,)	AND INJUNCTIVE RELIEF
vs.)	
)	
UNITED STATES DEPARTMENT OF THE)	
INTERIOR; U.S. BUREAU OF LAND)	
LAND MANAGEMENT; and ESTER M.)	
McCULLOUGH, District Manager,)	
BLM's Winnemucca Office,)	
)	
Defendants.)	

INTRODUCTION

- 1
2 1. Plaintiffs, Western Watersheds Project (WWP), Great Basin Resource Watch
3 (GBRW), Basin and Range Watch (BRW), and Wildlands Defense (WD), file this
4 suit for vacatur, and equitable, declaratory and injunctive relief under the
5 Administrative Procedure Act (APA), 5 U.S.C. §§ 701-706, Federal Land Policy
6 Management Act of 1976 (FLPMA), 43 U.S.C. §§ 1701 *et seq.*, the National
7 Environmental Policy Act (NEPA), 42 U.S.C. §§ 4321 *et. seq.*, other federal laws,
8 and their implementing regulations and policies, challenging the decisions of the
9 United States Department of the Interior (DOI) and its Bureau of Land Management
10 (BLM) to approve the Thacker Pass Lithium Mine Project (Project/project or
11 Mine/mine) and Plans of Operations, a large open pit mining project on public lands
12 proposed by Lithium Nevada Corporation (LNC).
- 13
14 2. The Defendant Interior Department put the Project on an “expedited” track to
15 “streamline environmental review” and provide for quick approval by the Trump
16 Administration. *See* July 15, 2020 letter from Katharine Sinclair Macgregor, Interior
17 Department to Larry Kudlow, Director of the National Economic Council. On
18 January 15, 2021—five days before the end of the Administration—Ester M.
19 McCullough, BLM District Manager for the Winnemucca District Office, approved
20 the Project and its Plans of Operations in a “full force and effect” decision effective
21 immediately.
- 22 3. In the rush to implement the Project, Defendants violated federal environmental
23 statutes and swept under the rug the mine’s serious environmental impacts.
- 24 4. Plaintiffs challenge the Record of Decision (ROD) approving LNC’s two Plans of
25 Operations (PoO): (1) for the mine itself; and (2) for the “North/South Exploration
26 Project,” both proposed in the same area. Plaintiffs also challenge the Final
27 Environmental Impact Statement (FEIS) BLM prepared for the mine and exploration
28 projects. The ROD was based on the FEIS, which was issued in December of 2020
by BLM’s Winnemucca District, Humboldt River Field Office.

- 1 5. For these and the related reasons addressed herein, Plaintiffs ask this Court to declare
2 that the ROD, FEIS, and Project approvals and decisions signed and prepared by
3 BLM for the Project violate federal law. Plaintiffs ask this court to set aside/vacate
4 and remand the decisions to the BLM, and enjoin any construction, operation, or
5 development of the Project until the violations have been corrected.
6

7 **The Thacker Pass Mine Project and Its Severe Impacts to Public Lands, Wildlife, and Public**
8 **Resources**

- 9 6. The Thacker Pass Mine Project will be one of the largest open pit mines in the region.
10 Facilities associated with the mine include development of an open pit mine; waste
11 rock storage facilities; a coarse gangue (valueless mineral) stockpile; a large
12 processed tailings waste dump facility; groundwater pumping/dewatering, growth
13 media stockpiles; haul and secondary roads; electrical transmission lines; and
14 additional mine facilities to support mining and lithium production operations.
15 7. The mine will be developed over two “phases” spanning the 41-year “life” of the
16 Project, although many environmental impacts will be permanent. Phase 1 would
17 include construction of the mine facilities and mining and processing for the first 4
18 years of mine life. Phase 2 would occur from years 5 to 41 of the mine life, after
19 which the Project would enter the reclamation and closure period (for a minimum of 5
20 years). The ROD also approves a new extensive exploration drilling project in the
21 same area.
22 8. The Project area covers 17,933 acres of land. 10,468 acres are associated with the
23 mine itself and 7,465 acres are associated with the exploration project.
24 9. Although the Project would have significant effects across the region, the total direct
25 disturbance footprint would be approximately 5,695 acres. All Project operations
26 would be located on public lands administered by the BLM, Winnemucca District
27 (WD).
28

Facility		Disturbance Acres
Mine Pit		1,099.8
West WRSF		160.7
East WRSF		137.2
Mine Facilities, ROM Stockpile, Attrition Scrubbing		48.3
CGS		318.3
Processing Facility (Lithium and Sulfuric Acid Plant)		555.3
Clay Tailings Filter Stack		1,166.1
Mine Facilities Power Line, Quinn Power Line, and Water Supply		267.7
Exploration		300.0
Inter-facility Disturbance		1,641.4
Total		5,694.8

FEIS at 2-3, Table 2-1.

10. The mine pit would be roughly 400 feet deep. FEIS Figure 2-3. Approximately 230.0 million cubic yards (CY) of ore would be mined, and 190.2 million CY of waste rock material would be generated over the 41-year life of the mine. FEIS at 2-4. The total height of the West waste rock storage facility (WRSF) would be 482 feet. The total height of the East WRSF would be 208 feet. FEIS at 2-5. The coarse gangue material stockpile (CGS) would be 200 feet tall. FEIS at 2-7. The permanent clay tailings filter stack (CTFS) dump would hold 353.6 million CY of processed waste and be 350 feet high. FEIS at 2-9 to 2-10.

11. The open pit would be backfilled during the life of the mine. ROD at 3. At the end of mine life, the open pit would be completely backfilled. Id. However, due to the long-term effects of the Project's groundwater pumping and water use, the groundwater in the area would continue to be lowered by the mine into the indefinite future.

Severe Impacts to Water Resources

12. The mine will cause serious groundwater pollution. The FEIS predicts that the mine pit backfill would cause antimony in the groundwater to exceed the applicable Nevada water quality standard.

- 1 13. In its response to comments, BLM admitted that the Project will violate water quality
2 requirements for antimony: “Geochemical modeling results indicate that pore water
3 in backfill will exceed MCLs [Maximum Contaminant Levels] for longer than 20
4 pore volumes (Water Quantity and Water Quality Impacts report, Appendix P of this
5 EIS).” FEIS at R-121.
- 6 14. Yet under FLPMA and BLM’s mining regulations (43 C.F.R. Part 3809), BLM
7 cannot approve mining operations that are predicted to violate water quality
8 standards at any time.
- 9 15. Antimony is a federally-designated harmful pollutant. *See* U.S. Dept. of Health and
10 Human Services, Agency for Toxic Substances and Disease Registry, Toxicological
11 Profile for Antimony and Compounds, October 2019,
12 <https://www.atsdr.cdc.gov/ToxProfiles/tp23.pdf>
- 13 16. Because of this predicted groundwater contamination, BLM should have, but did not,
14 analyze or require mitigation to prevent the Mine from exceeding the Nevada water
15 quality standard.
- 16 17. The U.S. Environmental Protection Agency (EPA) strongly criticized BLM’s failure
17 to adequately analyze impacts to water quality, and ensure against any potential
18 exceedance of water quality standards:
19

20 **Unmanaged Groundwater Quality Degradation**

21 As explained in the Final EIS, **adverse effects to groundwater quality are**
22 **expected from all action alternatives. Without mitigation, a plume of**
23 **groundwater exceeding the Nevada Division of Environmental Protection**
24 **Profile I Reference Values for antimony is expected to flow uncontrolled**
25 **from the backfilled pit.** According to fate and transport modeling included in the
26 EIS (Appendix P Part 1 p. 125-133), the preferred alternative (Alternative A)
27 would result in a plume extending approximately one-mile (p. 4-26) downgradient
28 of the pit 300-years post-closure at levels still above Profile I (Appendix P Part 1
p. 132-133).

“EPA’S DETAILED COMMENTS ON THE FINAL ENVIRONMENTAL
IMPACT STATEMENT FOR THE THACKER PASS PROJECT, HUMBOLDT

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COUNTY, NEVADA, JANUARY 4, 2020,” at 1, contained in EPA’s January 4, 2021 letter to BLM (EPA’s Detailed Comments on FEIS)(emphasis added).

18. EPA further noted that the FEIS failed to adequately review mitigation required to prevent this contamination:

While the Final EIS includes three conceptual options that have the potential to mitigate antimony groundwater contamination (Appendix P Part 1 p. 154-159), **the plans are not developed with an adequate level of detail to assess whether or how groundwater quality downgradient from the pit would be effectively mitigated.** In our comments on the Draft EIS, the EPA recommended more detailed information about how effective these potential mitigation options could be, and an evaluation of additional disturbance and impacts from implementing the proposed mitigation options (40 CFR 1508.25(a)(1)(iii)).

EPA’s Detailed Comments on FEIS, at 1 (emphasis added). BLM never provided the required detailed information and analysis requested by EPA.

19. In addition to the contaminated water from the mine pit, seepage from the tailings waste facility is predicted to be very toxic with extremely high levels for over 20 constituents including uranium, radium, radioactivity, and very low pH (high acidity). “[A]luminum, arsenic, antimony, beryllium, cadmium, chromium, copper, fluoride, iron, lead, magnesium, mercury, nickel, sulfate, thallium, TDS, and zinc were leached under low pH conditions at concentrations above Profile I NRVs [Nevada Reference Values].” FEIS Appendix B, LNC Mine Plan at 41. Further, “testing indicate[s] that for the clay tailings sample, uranium, gross alpha and radium 226/radium 228 exceed the Profile IR NRVs.” Id.

20. The FEIS does not analyze how this drainage will be treated nor provide sufficient details as to how this highly toxic and dangerous drainage will be managed, and for how long, to allow the public to evaluate the effectiveness of any future mitigation approach.

21. The FEIS failed to present information and analysis as to how long it is anticipated that drainage from both of these facilities will need to be captured and treated.

1 22. As noted below, BLM failed to provide any analysis or numbers at all regarding the
2 financial costs needed for the long-term mitigation and treatment of these toxic
3 waters, as required by BLM regulations.

4 23. The mine's groundwater pumping would also significantly harm local streams,
5 springs, and wetlands. The mine's drawdown of the local aquifer covers, at a
6 minimum, roughly 2.5 miles wide due to the pumping at the mine pit area, and
7 roughly 2 miles across due to the pumping at the production well site near the east
8 end of the Project site. FEIS Figure 4.3-8 (showing groundwater drawdown and
9 affected waters that would suffer reduced or lost flows).

10 24. In addition to the large pumping and dewatering operations, the mine would
11 consumptively use large amounts of water each year for the 41-year life of the mine:
12 2,600 AFA (acre-feet annually) during Phase I (years 1-4), and 5,200 AFA during
13 Phase 2 (years 5-41). FEIS at 2-13. An Acre-Foot (AF) of water is approximately
14 325,851 gallons.
15

16 **Unmitigated Wildlife Impacts**

17 25. The mine and exploration Project will also result in severe and unmitigated impacts to
18 protected and special status birds, wildlife, and plants in the Project area, including
19 federally protected species and State of Nevada Species of Conservation Concern and
20 At-Risk species, by permanently destroying irreplaceable habitats and cutting off
21 connectivity between habitats to the north and south of the Project area. In its
22 comments to BLM on the FEIS, the Nevada Department of Wildlife (NDOW) was
23 very critical of the Project's impacts to wildlife: "We continue to find that the
24 Preferred Alternative will likely result in adverse impacts to wildlife, ground and
25 surface waters, and riparian vegetation within and outside the project area. These
26 impacts include effects to an array of species and will likely have permanent
27 ramifications on the area's wildlife and habitat resources." NDOW January 4, 2021
28 letter to Defendant Ester M. McCullough, BLM District Manager, at 1.

1 26. “Groundwater dependent habitats in the Montana Mountains north of the Project area
2 boundary are critical to greater sage-grouse, Lahontan cutthroat trout, mule deer,
3 pronghorn, and many other wildlife species. Given the arid nature of this region,
4 water sources, riparian vegetation, and wet-meadow habitats are essential to wildlife
5 and the loss or degradation of these areas will have significant negative impacts on
6 wildlife populations.” Id.

7 27. The FEIS acknowledges these significant and unmitigated impacts to wildlife:
8

9 **Surface disturbance associated with mining activities and development of**
10 **mine facilities**, including the open pits, WRSF, CGS and GMSs, CTFS, process
11 **plant and ancillary facilities, and roads, water lines, and power lines would**
12 **directly affect wildlife through the loss of potentially suitable habitat by**
13 **vegetation removal, and removal of seeps and springs and seasonal water**
14 **sources for wildlife.** For some species, disturbance would remove available
15 habitat for the life of the mine, or longer depending on the success of reclamation.
16 **Habitat loss or alteration would result in direct losses of some species,**
17 **particularly smaller, less mobile species, or species requiring specific**
18 **resources or habitat within the Project area.** Habitat loss could cause
19 displacement of more mobile species (e.g., bats, birds), or generalist species into
20 adjacent habitats. Most disturbance would occur within sagebrush communities,
21 shrublands (e.g., greasewood, saltbush), native grassland, and invasive annual-
22 dominated vegetation (Figure 4.5-2, Appendix A).”

23 FEIS at 4-34 (emphasis added).

24 28. But the generalized discussion of these impacts gives short shrift to potentially
25 catastrophic impacts to the region’s protected, sensitive, and vulnerable species.

26 29. One of the most critical concerns involves the Project’s serious impacts to greater
27 sage-grouse (GRSG or sage-grouse) that BLM failed to adequately analyze and
28 mitigate against.

29 30. The greater sage-grouse is a ground-nesting bird known for its elaborate mating dance
30 performed on breeding grounds called “leks,” and imperiled by destruction and
31 modification of its sagebrush habitats.

32 31. The Project area lies within Western Great Basin “Priority Area for Conservation”
33 (PAC), identified by the U.S. Fish and Wildlife Service, and the GRSG Lone Willow
34 Population Management Unit (PMU) designated by NDOW. Most of the Project area

- 1 is identified by BLM as Priority Habitat Management Area (PHMA) and General
2 Habitat Management Area (GHMA) for GRSG. *See* FEIS at GF-18, Figure 4.18-8,
3 Appendix A. PHMA is defined as BLM-administered lands identified as having the
4 highest value to maintaining sustainable GRSG populations. FEIS at GF-18.
- 5 32. The Lone Willow PMU is largely “essential irreplaceable” habitat for sage-grouse,
6 but 48 percent of the PMU burned in wildfires, mostly comprising the western half,
7 degrading its value for the species. As a result, the eastern half of the PMU, which
8 includes the Montana mountains, is of elevated importance, and provides high-quality
9 habitat, just to the north of the Project area, and additional habitat to the south. The
10 Project would sever these two portions of the PMU.
- 11 33. Sage-grouse have been documented in the Project area and use it for breeding,
12 nesting, brood-rearing and winter habitats. According to the FEIS:
13
14 There is one active lek (Montana-10) within 0.96 miles of the Project area, and
15 three active lek sites within 3.1 miles of the Project area (Figure 4.5-10, Appendix
16 A). NDOW lek observations have documented birds displaying at this lek within
17 0.75 miles of the proposed Project area (NDOW 2020).
18
19 FEIS at 4-42. Mapping shows six active and two inactive sage-grouse leks within or
20 adjacent to the Project area. *See* FEIS Figure 4.5-10. Yet the FEIS does not disclose
21 that there are additional active sage-grouse leks in the southeastern portion of the
22 PMU.
- 23 34. Nearly the entire Project area occurs within moderate to high quality sage-grouse
24 winter habitat, and the northwestern portion of the Project area, where the mine pit
25 will be located, is high quality brood-rearing habitat. FEIS Figures N.2, N.3; *see also*
26 FEIS at G-18 (describing habitat).
- 27 35. The FEIS does not disclose how the destruction of these important seasonal habitats,
28 especially when considered cumulatively in light of the large fires that burned large
portions of the PMU, will affect sage-grouse, either within the Project area, the PMU,
or the Western Great Basin PAC.

- 1 36. In addition, noise levels associated with the Project at the Montana-10 and Pole Creek
2 01 leks are expected to exceed levels known to cause lek abandonment. The
3 Montana-10 lek is one of the three largest leks in the Lone Willow PMU, where
4 NDOW has stated that “the loss of this lek would likely be of high consequence to
5 greater sage-grouse populations.” FEIS at R-184 (NDOW comment to BLM on Draft
6 EIS, #P830). But, the FEIS does not disclose how noise from the Project may cause
7 or contribute to abandonment of this important lek, or affect sage-grouse populations
8 in the Project area, within the PMU, or within the Western Great Basin PAC.
- 9 37. Another critical wildlife species that will be significantly affected by the mine is the
10 pronghorn antelope. The Project will destroy nearly 5,000 acres of pronghorn winter
11 range for the life of the mine or longer, and 427 acres of summer range. It will also
12 sever two critical pronghorn movement corridors. One facilitates seasonal access
13 between limited use and winter range habitat to the south of the Project area and
14 winter range, summer range, and year-round habitat to the north of the Project area.
15 The other enables year-round daily movement of pronghorn between the Quinn River
16 Valley to the east and the Montana Mountains to the west. The construction of
17 Project facilities and the associated loss of habitat is likely to destroy some seasonal
18 habitats and prohibit or impede pronghorn movement between other remaining year-
19 round and seasonal habitats.
- 20 38. Yet the FEIS does not consider or disclose how severing these pronghorn movement
21 corridors, or destroying nearly 5,000 acres of pronghorn winter range, will impact
22 pronghorn populations. The FEIS does not analyze the cumulative effect the Project,
23 coupled with other activities in the region, will have on pronghorn habitat and
24 movement.
- 25 39. Other vulnerable and protected species that will be significantly affected include
26 golden eagles, various amphibians, and springsnails—including the endemic King’s
27 River pyrg—dependent on the riparian areas and springs that will be dewatered or
28 destroyed by the Project, as well as several sensitive plant species.

1 40. BLM also failed to adequately analyze the impacts to Lahontan Cutthroat Trout
2 (LCT), which is protected under the federal Endangered Species Act (ESA), due to
3 BLM’s unsupported position that the Project will not have any effect on LCT in
4 Crowley Creek, Pole Creek, and habitat within the Project area. BLM erroneously
5 assumed that there was no LCT stream habitat that would be affected by the Project’s
6 dewatering and other operations while rejecting NDOW’s recommendation that a
7 quantitative buffer be included for Pole Creek, Crowley Creek, and spring sites.
8

9 **Violation of Binding BLM Visual Protection Standards**

10 41. The Project will result in unmitigated impacts to Nevada’s rural visual landscape, in
11 violation of the protective standards in BLM’s Winnemucca District Resource
12 Management Plan (RMP).

13 42. The following recent photos of the Project site depict the dramatic landscape and
14 evidence why the area’s scenic qualities are protected by the RMP standards:





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43. Due to the Project’s massive scale and impacts, BLM admitted that the Project will violate the Winnemucca RMP’s Visual Resource Management (VRM) Class II protection standards:

Overall, the construction and operation of the Proposed Alternative would not meet the current VRM Class II objectives, and would not conform with the existing ROD/RMP (see Section 1.5.3). The existing character of the landscape would not be retained, and the level of change to the characteristic landscape would be noticeable and likely attract the attention of the casual observer. Overall, the **construction and operation of Alternative A would not meet the current VRM Class II objectives, and would not conform with the existing ROD/RMP** (see Section 1.5.3).

FEIS at 4-101 (emphasis added). Almost the entire site is located within the lands protected by the VRM Class II standard. FEIS at Figure 4.15-1. Under FLPMA, BLM cannot approve activities on BLM-managed land that would violate the applicable RMP.

JURISDICTION AND VENUE

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2 44. This is a suit pursuant to the APA, FLPMA, NEPA, and other federal statutes,
3 regulations and requirements. Jurisdiction over this action is conferred by 28 U.S.C.
4 §§ 1331 (federal question), 2201 (declaratory relief), and 2202 (injunctive relief).
5 45. Venue is proper in the District of Nevada pursuant to 28 U.S.C. §§ 1391 (b) and (e).
6 The BLM Winnemucca District Office, and named Defendant Ester M. McCullough,
7 who issued the FEIS and ROD, are located in Nevada. The Thacker Pass Project is
8 located in Humboldt County, Nevada. Some or all Plaintiffs are located and reside in
9 Nevada.

PARTIES

- 10
11 46. Plaintiff Western Watersheds Project (WWP) is a non-profit organization with more
12 than 12,000 members and supporters whose mission is to protect and restore western
13 watersheds and wildlife through education, public policy initiatives and legal
14 advocacy. Western Watersheds Project has longstanding interests in public land
15 management in Nevada and employs a Nevada-Oregon Director who lives in Nevada.
16 Western Watersheds Project and its staff and members use and enjoy the public lands
17 and their wildlife, cultural and natural resources for health, recreational, scientific,
18 spiritual, educational, aesthetic, and other purposes, including in Nevada. Western
19 Watersheds Project also has a direct interest in mineral development that occurs in
20 areas with sensitive wildlife populations and important wildlife habitat, such as
21 greater sage-grouse and designated sage-grouse habitat management areas. The
22 Project would be located in and have affects to lands and waters where Western
23 Watersheds Projects staff and members have enjoyed, and intend to continue enjoying
24 in the coming months, camping, hiking, photographing natural high desert beauty,
25 appreciating golden eagles, pronghorn, greater sage-grouse and other wildlife in the
26 area. These uses will be immediately, irreparably, and significantly harmed by the
27 Project and related operations.
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1 47. Plaintiff Great Basin Resource Watch (GBRW) is a non-profit organization based in
2 Reno, Nevada that is concerned with protecting the Great Basin's land, air, water,
3 wildlife and communities from the adverse impacts of hardrock mining. GBRW
4 members include ranchers, sportsmen, conservationists, and Native Americans
5 dedicated to protecting the communities, land, air, water and Native American
6 resources of the Great Basin. Members of GBRW have used, enjoyed, and valued the
7 area of the Project, including the Project site, for many years. Members of GBRW
8 hike, view and photograph wild plant and animal life, and generally enjoy using the
9 area of the Project for recreational, historical, conservation, and aesthetic purposes.
10 Members of GBRW intend on continuing to use and value the lands at, and affected
11 by, the Project during 2021 and in future years. These uses will be immediately,
12 irreparably, and significantly harmed by the Project and related operations.

13 48. Plaintiff Basin and Range Watch (BRW) is a non-profit organization working to
14 conserve the deserts of Nevada and California and to educate the public about the
15 diversity of life, cultures, and history of the desert, as well as sustainable local
16 renewable energy alternatives. One of BRW's main goals is to identify the problems
17 of large-scale mineral and energy extraction. We work to find solutions that will
18 preserve our natural ecosystems, public lands, open spaces, and quality of life for
19 local communities. Members of BRW hike, view and photograph wild plant and
20 animal life, and generally enjoy using the area at the Project site for recreational,
21 historical, conservation, and aesthetic purposes. Members of BRW intend on
22 continuing to use and value the lands at, and affected by, the Project during 2021 and
23 in future years. These uses will be immediately, irreparably, and significantly harmed
24 by the Project and related operations.

25 49. Plaintiff Wildlands Defense (WLD) is a regional, membership, non-profit
26 organization dedicated to protecting and improving the ecological and aesthetic
27 qualities of the wildlands and wildlife communities of the western United States for
28 present and future generations. WLD advances its mission by means of landscape

1 and wildlife monitoring, by media outreach, and with legal and administrative
2 advocacy. WLD is headquartered in Hailey, Idaho, has members in several western
3 states, including members that regularly focus on public land and wildlife
4 preservation in the high desert ecosystem of the scenic and remote Nevada and
5 Oregon border land region. As an organization and on behalf of its members, WLD
6 has a particular interest in protection of biodiversity and conservation of rare species
7 like pygmy rabbit, golden eagle, greater sage-grouse and Lahontan cutthroat trout,
8 and in sustaining migratory birds. WLD members work and/or recreate throughout
9 this area generally, and in the Project Area particularly. Members derive scientific,
10 recreational, inspirational, spiritual, aesthetic, educational, journalistic, expressive
11 and other benefits from the public lands, wildlife, ecosystems, and the sweeping
12 beautiful wild landscape of the Montana Mountains region, and intend to visit and
13 engage in these pursuits frequently in the immediate future. These uses will be
14 immediately, irreparably, and significantly harmed by the Project and related
15 operations.
16

17 50. In addition to the immediate and irreparable harm caused by the Project and BLM's
18 approval of the Project, Plaintiffs, and their members, have been, and are being,
19 irreparably harmed by BLM's failure to conduct a proper NEPA analysis and to fully
20 involve the public, and Plaintiffs, and their members, in the required NEPA and
21 FLPMA process.

22 51. Defendant Bureau of Land Management (BLM) is an agency of the Defendant
23 United States Department of the Interior (DOI). The BLM/DOI has oversight
24 responsibility for the federal lands affected by the Project. BLM's
25 Winnemucca District Office issued the 2020 FEIS and the 2021 ROD.

26 52. Defendant Ester M. McCullough, the District Manager of the BLM
27 Winnemucca District Office, was the Authorized Officer for the challenged
28 FEIS and ROD. She is sued in her official capacity.

1 **Failure to Comply with the Binding Resource Management Plan Under FLPMA**

- 2 53. The mine and exploration projects will not comply with the Winnemucca RMP and
3 related Sage Grouse RMP Amendment requirements. BLM’s approval of this non-
4 conforming Project violates FLPMA and its implementing regulations.
- 5 54. FLPMA requires that all activities approved by BLM comply with the requirements
6 of the binding Resource Management Plans (RMPs), also known as “land use plans”:
7 “The Secretary shall manage the public lands under principles of multiple use and
8 sustained yield, in accordance with the land use plans developed by him under section
9 1712 of this title when they are available.” 43 U.S.C. § 1732(a).
- 10 55. FLPMA requires that: “the public lands be managed in a manner that will protect the
11 quality of scientific, scenic, historical, ecological, environmental, air and
12 atmospheric, water resource, and archeological values.” 43 U.S.C. § 1701(a)(8).
- 13 56. A violation of the RMP is a violation of FLPMA. Or. Natural Res. Council Fund v.
14 Brong, 492 F.3d 1120, 1128 (9th Cir. 2007) (BLM-approved project components “are
15 inconsistent with the Plan and, consequently, violate FLPMA.”).
- 16 57. Complying with the RMP is required by both the general land use conformity
17 requirement of FLPMA, as well as BLM’s duty under FLPMA to “prevent
18 unnecessary or undue degradation” of the public lands. 43 U.S.C. § 1732(b).
- 19 58. BLM’s FLPMA regulations require that all resource management decisions “shall
20 conform to the approved [land use] plan.” 43 C.F.R. § 1610.5-3(a).
- 21 59. BLM “shall take appropriate measures . . . to make operations and activities under
22 existing permits, contracts, cooperative agreements or other instruments for
23 occupancy and use, conform to the approved [land use] plan . . .” *See id.* § 1610.5-
24 3(b). 43 C.F.R. § 1601.0-5(b) defines “conformity” as requiring that “a resource
25 management action shall be specifically provided for in the plan, or if not specifically
26 mentioned, shall be clearly consistent with the terms, conditions, and decisions of the
27 approved plan or plan amendment.” “Consistent,” in turn, is defined as requiring that
28

1 management actions “will adhere to the terms, conditions, and decisions of officially
2 approved and adopted resource related plans” Id. § 1601.0-5(c).

3 60. There is no general exemption from the FLPMA RMP requirements for mineral
4 operations. As BLM has recognized, mining must comply with all RMP provisions.
5 Mineral Policy Center v. Norton, 292 F.Supp.2d 30, 49 (D.D.C. 2003) (“when BLM
6 receives a proposed plan of operations under the 2001 rules, pursuant to Section
7 3809.420(a)(3), it assures [sic] that the proposed mining use conforms to the terms,
8 conditions, and decisions of the applicable land use plan, in full compliance with
9 FLPMA’s land use planning and multiple use policies.”).

10 61. Despite these FLPMA requirements, BLM erroneously based the ROD and FEIS on
11 its position that because LNC has filed mining claims across the entire site and is
12 conducting mining-related operations, BLM is exempt from complying with the
13 applicable RMP requirements.
14

15 *Violation of RMP Requirements for the Protection of the Greater Sage-Grouse*

16 62. The GRSG is a species subject to binding protective standards in the BLM’s Record
17 of Decision and Resource Management Plan for the Winnemucca District, as well as
18 the Nevada and Northeastern California Greater Sage-Grouse Approved RMP
19 Amendment (September 2015) (and associated approvals and implementations).
20 (Collectively, the Winnemucca ROD/RMP and NV/NE CA ARMPA). It is a
21 sagebrush obligate, which means it relies upon large expanses of intact sagebrush
22 habitat to survive. But with these habitats becoming increasingly scarce due to the
23 conversion to industrial uses, fire, and other stressors, sage-grouse have declined to
24 10 percent of their former abundance and have been eradicated from at least 44
25 percent of their historic range.

26 63. With the specter of listing the bird under the Endangered Species Act looming, the
27 BLM and U.S. Forest Service embarked on a west-wide planning strategy covering
28 approximately 67 million acres of federal lands to impose adequate sage-grouse
protections in their planning documents to conserve the species. BLM convened a

1 National Technical Team (NTT) to identify science-based sage-grouse conservation
2 measures and the NTT's December 2011 Report remains the best available science on
3 sage-grouse conservation measures to this day.

4 https://www.fws.gov/greatersagegrouse/documents/Reports/GrSG_NTT_Report.pdf

- 5 64. The NTT Report recommended withdrawing sage-grouse priority habitats from
6 mineral entry based on risk to sage-grouse and its habitat from conflicting locatable
7 mineral potential and development. *Id.* at 24. It further recommended “[m]ake any
8 existing claims within the withdrawal area subject to validity patent exams or buy
9 out.” *Id.*
- 10 65. Meanwhile, the U.S. Fish and Wildlife Service convened a “conservation objectives
11 team,” (COT) which, in March 2013, issued a report that identified and mapped sage-
12 grouse “priority areas for conservation” (PACs), maintaining the integrity of which is
13 “the essential foundation for sage-grouse conservation.” The PACs were based
14 initially on State “key habitat maps” derived from breeding bird density maps and lek
15 counts, nesting areas, and habitat distribution data. The COT recommended avoiding
16 “new mining activities and/or any associated facilities within occupied habitats,
17 including seasonal habitats.” COT Report, 49.
- 18 66. Through BLM's planning process, BLM similarly identified “Priority Habitat
19 Management Areas” (PHMAs), “General Habitat Management Areas” (GHMAs),
20 and, applicable in Nevada and California, “Other Habitat Management Areas”
21 (OHMAs). PHMAs are “BLM-administered lands identified as having the highest
22 habitat value for maintaining sustainable GRSG populations” and BLM claims they
23 “largely coincide” with the U.S. Fish and Wildlife Service PACs, although in truth
24 large areas of habitats identified as PACs were omitted from PHMA and GHMA.
25 Great Basin (GB) ROD at 1-15 (U.S. Dept. of Interior, Record of Decision and
26 Approved Resource Management Plan Amendments for the Great Basin Region,
27 Including the Greater Sage-Grouse Sub-Regions of Idaho and Southwestern Montana
28 Nevada and Northeastern California Oregon Utah, September 2015).

- 1 67. Meanwhile, GHMAs are “BLM-administered GRSG habitat that is occupied
2 seasonally or year-round and is outside of PHMAs”; and OHMAs are “BLM-
3 administered land in Nevada and Northeastern California, identified as unmapped
4 habitat...that is within the Planning Area and contains seasonal or connectivity
5 habitat areas.” GB ROD at 1-15.
- 6 68. In 2015, BLM’s planning process culminated in the Approved Resource Management
7 Plan Amendments (ARMPAs) adopted through two Records of Decisions (RODs)
8 that grafted sage-grouse protections onto BLM RMPs throughout most of sage-grouse
9 range, including the Winnemucca RMP at issue here. The Nevada/Northeastern
10 California ARMPA adopted through the Great Basin ROD set forth specific
11 management direction regarding sage-grouse protections to be applied in PHMAs,
12 GHMAs, and OHMAs.
- 13 69. Most or all of the Project area is PHMA. FEIS Figures 4.5-11 and -12 (“GRSG
14 Amendment Habitat Mapping”). The Project area lies within the Lone Willow
15 Population Management Unit (PMU) designated by the Nevada Department of
16 Wildlife (NDOW). FEIS at 4-43. Much of that PMU is categorized as “**essential**
17 **irreplaceable habitat,**” which the FEIS ignores.
18 [https://www.fws.gov/nevada/nv_species/documents/sage_grouse/392012-
19 Maps/Printable_Greater_Sage-Grouse_Habitat_Categorization_Map.pdf](https://www.fws.gov/nevada/nv_species/documents/sage_grouse/392012-Maps/Printable_Greater_Sage-Grouse_Habitat_Categorization_Map.pdf)
20 (emphasis added). Virtually the entire Lone Willow PMU, including all or nearly all
21 of the Project area, is within the Western Great Basin “priority area for conservation”
22 (PAC).
23
- 24 70. Recognizing the importance of preserving expanses of interconnected sagebrush
25 habitats for sage-grouse, the sage-grouse Amendment to the Winnemucca RMP seeks
26 to “avoid, minimize, and mitigate” any effects to sage-grouse by avoiding new
27 disturbance or else minimizing or mitigating any disturbance. Objective SSS 4,
28 NV/NE CA ARMPA at 2-6. It requires BLM to attempt to site projects outside of
sage-grouse habitats, or else in the least suitable sage-grouse habitats or within or

1 adjacent to the footprint of other infrastructure. MD SSS-1 (NV/NE CA ARMPA at
2 2-6).

- 3 71. To minimize impacts, the Winnemucca RMP and NV/NE CA ARMPA cap
4 disturbance in high-value sage-grouse Priority Habitat Management Areas (PHMAs),
5 such as that at the Project site, at 3 percent at both the PMU scale and the project
6 scale. *See* N-5 (discussing MD SSS 2A).

7
8 **Manage discrete anthropogenic disturbances, whether temporary or**
9 **permanent, so they cover less than 3 percent of 1) biologically significant**
10 **units (BSUs; total PHMA area associated with a GRSG population area (see**
11 **Appendix A, Figure 2.2) and 2) in a proposed Project analysis area. See**
12 **Appendix E, Disturbance Cap Guidance, for additional information on**
13 **implementing the disturbance cap, including what is and is not considered**
14 **disturbance and how to calculate the proposed Project analysis area, as follows: 1.**
15 **If the 3 percent human disturbance cap is exceeded on all lands (regardless**
16 **of ownership) in PHMAs in any given BSU, then no further discrete human**
17 **disturbances (subject to applicable laws and regulations, such as the 1872**
18 **Mining Law, as amended, and valid existing rights) will be permitted, by**
19 **BLM within GRSG PHMA in any given BSU until the disturbance has been**
20 **reduced to less than the cap (see Nevada exception under MD SSS 2 a. 3.**
21 **Appendix E).**

22 FEIS Appendix N at N-5 (emphasis added).

- 23 72. Where impacts cannot be avoided, the Winnemucca RMP and NV/NE CA ARMPA
24 also require that BLM “ensure mitigation that provides a net conservation gain to the
25 species,” such as the use of the State of Nevada Conservation Credit system. MD SSS
26 2B (PHMA) (NV/NE CA ARMPA at 2-7, 2-8). Despite this requirement, BLM never
27 analyzed or required this “net conservation gain” for sage grouse at Thacker Pass.
28 73. In addition, the RMP mandates the application of specified Required Design Features
(RDFs) to protect sage grouse. MD SSS 2B (NV/NE CA ARMPA at 2-8). BLM
must apply lek buffer distances identified in the USGS report, Conservation Buffer
Distance Estimates for Greater Sage-Grouse—A Review Open File-Report 2-14-1239
(Manier et al. 2014). MD SSS 2D (NV/NE CA ARMPA at 2-8). Seasonal restrictions
“will be applied” to manage surface-disturbing activities and uses to prevent

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disturbances to GRSG during seasonal life-cycle periods. MD SSS 2E (NV/NE CA ARMPA at 2-8 to 2-9).

74. The ARMPA also includes strict noise limits and requires that authorizations and permits must limit noise from activities to a maximum of 10 decibels above ambient sound levels at least 0.25 miles from active and pending leks, from 2 hours before to 2 hours after sunrise and sunset during the breeding season. MD SSS 2F (NV/NE CA ARMPA at 2-9).

75. Further, where “triggers” are reached, as is the case in the Lone Willow PMU where the Project lies, BLM must also take additional management or mitigation actions set forth in MD SSS 17 through 24.

76. The Project does not comply with these requirements.

77. There is no evidence that BLM required LNC to site Project facilities outside of PHMA and GHMA, locate the surface-disturbing activities in non-habitat or in the lowest quality habitat, or locate Project facilities within or adjacent to existing infrastructure, as it is required to do “whether in accordance with a valid existing right or not.” *See* MD SSS-1. Therefore, BLM has not complied with the “avoid, minimize, mitigate” objective set forth in the NV/NE CA ARMPA.

78. BLM has admitted that disturbance in the Project area already surpasses the 3 percent threshold beyond which no further disturbance may be authorized. The Project will disturb 1.12 percent of PHMAs within the PMU and will raise disturbance in the Project area from 4.4 percent to 12 percent. FEIS at N-5; N-17. In fact, the Project would completely span the southeastern portion of the PMU, severing the southernmost portion of the PMU from the rest of the PMU. *See* Figure 4.5-1. Plaintiffs provided BLM with studies showing that isolating sage-grouse populations by fragmenting habitat in this way leads to their extirpation and thus, the Project will effectively shrink the habitat and sage-grouse population in the PMU. BLM essentially ignored these studies in the FEIS and ROD.

- 1 79. BLM has never convened a technical team to determine whether the Project can be
2 modified to a “net conservation gain” to the species, as is required to meet the criteria
3 for an exception to the three percent disturbance cap. *See* NV/NE CA ARMPA at E-2.
- 4 80. Nor has BLM required or ensured mitigation that provides a “net conservation gain”
5 to the species. Indeed, BLM has admitted that LNC has purchased no permanent
6 conservation credits to offset the effects of permanent groundwater drawdown from
7 the mine that will affect surface water used by sage-grouse in the Project area for the
8 foreseeable future. FEIS at 4-54. Under the ARMPA, BLM is not free to simply
9 disregard its obligation to ensure that impacts to GRSG are mitigated where they
10 cannot be avoided.
- 11 81. BLM also failed to apply several Required Design Features (RDFs), including all of
12 the locatable minerals-specific RDFs. *See* FEIS Table N.4.
- 13 82. BLM failed to apply lek buffer distances, seasonal restrictions, and noise limits
14 required by the ARMPA. This failure is likely to have significant impacts to sage-
15 grouse.
- 16 83. For instance, the Nevada Department of Wildlife, in comments to BLM on the DEIS,
17 specifically stated that the Project would violate the noise limits in the ARMPA and
18 could have significant negative effects on the Montana-10 and Pole Creek 01 leks as
19 well as the Lone Willow PMU:
20

21 The calculations predict that **project related noise at these leks will exceed**
22 **BLM ARMPA standards** and result in potential impacts. Increased noise at
23 sage-grouse leks has been shown to have negative effects on lek attendance, with
24 likely implications to sage-grouse populations. Current research indicates that as
25 noise levels reach 10 dBA L50 above natural background levels (Pre-Project
26 L90), sage-grouse lek attendance declines and lek abandonment can occur. Thus,
27 **the anticipated project related noise increases at Montana-10 and Pole Creek**
28 **01 could have significant negative effects on these leks and the Lone Willow**
PMU. Based on average lek attendance, the Montana-10 lek is one of the three
largest leks in the Lone Willow PMU and the loss of this lek would likely be of
high consequence to greater sage-grouse populations.

FEIS at R-184 (comment #P830) (emphasis added). In response, BLM relied on a
potential future “noise monitoring plan” to purportedly reduce these impacts. *Id.* But,

1 as NDOW noted, such future potential plans would not ensure that the ARMPA noise
2 standards would be met.

3 While we appreciate DEIS’s inclusion of noise reduction measures and restricting
4 high noise activities to times less critical to wildlife, **this does not change the
5 model’s predictions that important thresholds will be exceeded.** We
6 recommend that additional details for monitoring, mitigation, and adaptive
7 management be determined in advance of the Final EIS to address the potential
8 noise impacts on these leks.

9 Id. (emphasis added). Despite these serious concerns, BLM claimed that any
10 monitoring plan or mitigation would be purely voluntary and that BLM did not have
11 to comply with the ARMPA standards:

12 Development of a noise monitoring plan may help in identifying activities that
13 produce high noise levels and recommend timing restrictions during critical
14 breeding periods (March-May); however, **these measures would be voluntary
15 actions. The proposed project is a non-discretionary 43 CFR 3809 action and
16 BLM’s discretion is limited to preventing unnecessary and undue
17 degradation, and may not impose timing or operational restrictions directed
18 under the 2015 GRSG ARMPA.**

19 FEIS at R-184 to 185 (Response to NDOW comment #P831)(emphasis added).

20 84. Similarly, some of the Project disturbance falls within the 3.1-mile lek buffer, which
21 are to be applied as required conservation measures to address impacts to leks.
22 NV/NE CA ARMPA at B-2. It is well-known that the effects of mining extend well
23 beyond the surface footprint of the mine facilities themselves, disturbing sage grouse
24 and displacing them from otherwise undisturbed habitats up to 3.1 miles away.
25 Applying the 3.1 lek buffer distance helps to avoid some of these effects.

26 85. BLM dismissed its obligation to comply with these requirements, and indeed all of
27 the other sage-grouse RMP Amendment requirements, based on the unsubstantiated
28 assertion that they are “not applicable” because LNC’s unpatented mining claims at
issue here confer “valid existing rights.” *See, e.g.*, FEIS at 4-45, N-25, N-6, N-9, N-
18, Table N.4.

1 86. BLM’s position is that it must approve the Project because it “is a non-discretionary”
2 action, based on the erroneous assumption that LNC has “valid existing rights” under
3 the 1872 Mining Law to conduct all of its operations on public lands at the site.

4 87. Yet, outside of the fact that LNC holds unpatented mining claims across the Project
5 site, BLM has offered no evidence that those claims are “valid” or that BLM has
6 determined whether the lands underlying these claims, especially the thousands of
7 acres to be buried by the waste/tailings dumps, satisfy the Mining Law’s strict test for
8 “valid existing rights.” If BLM had complied with the NTT Report’s
9 recommendation that locatable mineral claims be examined for validity, it could have
10 determined whether these assertions are true, but it did not.

11 88. Even if BLM’s unsupported assumption that LNC holds “valid existing rights” were
12 correct (which it is not), the agency is still under an obligation to impose mitigation
13 measures to protect imperiled wildlife under its duty to “prevent unnecessary or
14 undue degradation” under FLPMA. And it must still comply with the ARMPA
15 direction to “avoid, minimize, mitigate” impacts to sage-grouse by siting projects
16 outside of sage-grouse habitat, or else in the least-suitable habitat, or within the
17 footprint of existing infrastructure.

18 89. Moreover, BLM has the duty under FLPMA to mitigate adverse impacts:

19
20 Although other Federal and State agencies regulate various aspects of mining
21 under other statutes, BLM has its own responsibilities under FLPMA and the
22 mining laws to protect the resources and values of the public lands from
unnecessary or undue degradation.

23 ...
24 [S]ections 302(b) and 303(a) of FLPMA, 43 U.S.C. 1732(b) and 1733(a), and the
25 mining laws, 30 U.S.C. 22, provide the BLM with the authority to require
26 mitigation. **Mitigation measures fall squarely within the actions the Secretary
can direct to prevent unnecessary or undue degradation of the public lands.
An impact that can be mitigated, but is not, is clearly unnecessary.**

27 65 Fed.Reg. 69998, 70053 (November 21, 2000)(Preamble to BLM’s 43 C.F.R. Part
28 3809 mining regulations)(emphasis added).

1 90. But BLM decided not to comply with the requirements of the Winnemucca RMP as
2 amended, or to ensure that effects to sage-grouse from the Plan were fully mitigated.
3 Thus, the Project violates the Winnemucca RMP and NV/NE CA ARMPA, as well as
4 FLPMA.

5 *Violation of RMP Visual Resource Protection Requirements*

6 91. Similarly, BLM also erroneously based the ROD and FEIS on its position that
7 because LNC has filed mining claims across the entire site, it is exempt from the
8 Winnemucca RMP's Visual Resource protection standards.

9 92. FLPMA requires the protection of scenic values, requiring that "the public lands be
10 managed in a manner that will protect the quality of the...scenic...values..." 43 U.S.C.
11 §1701(a)(8). "[N]atural scenic ... values" are one of the resources for which public
12 land should be managed. 43 U.S.C. §1702(c).

13 93. The Winnemucca RMP implements these mandates by requiring that projects
14 authorized by BLM must comply with the following: for "Visual Resources (VRM)
15 Goal: Manage public land actions and activities to provide protection of the visual
16 values and scenic quality of existing landscapes consistent with the Visual Resource
17 Management (VRM) class objectives." RMP at 2-44.

18 https://eplanning.blm.gov/public_Projects/lup/47537/58077/62876/06_Chapter_2_RMP.pdf

19 94. According to the Winnemucca RMP's Final Environmental Impact Statement, at ES-
20 22, BLM is required to protect the area's designated scenic resources:

21
22
23 Visual Resources. In general, all alternatives would involve actions that maintain
24 or improve the quality of visual resources. In addition to relying on the visual
25 resource contrast rating system to preserve the overall scenic quality of BLM-
26 administered land, specific actions also maintain or improve visual resources
27 involving air, water, flora, fauna, wildland fire, cultural resources, minerals, and
28 recreation.

https://eplanning.blm.gov/public_Projects/lup/47537/58354/63145/Winnemucca_Proposed_RMP_FEIS_Volume_1.pdf

1 95. The FEIS described BLM’s Visual Resource Management and Protection processes.

2 The BLM created *Manual 8400 – Visual Resource Management* as guidance to
3 develop a comprehensive inventory and related management objectives for public
4 lands. **The objective of Visual Resource Management (VRM) is to manage
5 public lands in a manner which would protect the quality of the scenic (visual
6 values of these lands.** A VRM analysis systematically identifies and evaluates
7 visual resources to determine the appropriate level of impacts and management.
8 Visual values are identified through the VRM Inventory, Manual Section 8410, and
9 are considered with other resource values in the Resource Management Planning
10 (RMP) process.

11 FEIS at 4-98 (emphasis added).

12 96. Most of the Thacker Pass area is designated VRM Class II. According to the FEIS
13 for the Thacker Pass Mine:

14 The objective of VRM Class II is to retain the existing character of the landscape,
15 while keeping the level of change to the characteristic landscape low.
16 Management activities may be seen but should not attract attention of the casual
17 observer. The objective is that changes in the landscape repeat the basic elements
18 of form, line, color, and texture found in the predominant natural features.

19 FEIS at 4-99.

20 97. “BLM’s Winnemucca District Office concluded that the Thacker Pass Project
21 boundary falls primarily within VRM Class II per the 2015 Record of Decision and
22 Resource Management Plan for the Winnemucca District Planning Area, with an
23 exception to the east end of the Project area which fall within VRM Class III (BLM
24 2015a).” FEIS at 4-98 to 99.

25 98. BLM admits that the Project will violate these VRM requirements in the Winnemucca
26 RMP:

27 **Overall, the construction and operation of the Proposed Alternative would
28 not meet the current VRM Class II objectives, and would not conform with
the existing ROD/RMP (see Section 1.5.3).** The existing character of the
landscape would not be retained, and the level of change to the characteristic
landscape would be noticeable and likely attract the attention of the casual
observer. Overall, the construction and operation of Alternative A would not meet
the current VRM Class II objectives, and would not conform with the existing
ROD/RMP (see Section 1.5.3).

FEIS at 4-101.

1 99. As detailed herein, under FLPMA, BLM cannot approve actions that will violate its
2 own RMP.

3 100. In response to Plaintiffs' extensive comments highlighting how the Project would
4 violate the VRM requirements of the RMP, BLM simply stated: "**Thank you for**
5 **your comment,**" with no analysis or response. *See* Comments P645-656, FEIS at
6 Appendix R at 143-146 (emphasis added). This is a bald dismissal, not a response.

7 101. This violates the agency's duties under NEPA to fully respond to all substantive
8 comments. Under the controlling NEPA regulations, BLM "shall assess and
9 consider" and "shall respond" to comments. 40 C.F.R. § 1503.4(a). "Consider" means
10 "to investigate and analyze; 'consideration' encompasses an affirmative duty to
11 investigate and compile data, and a further duty to incorporate that data into a detailed
12 reasoned analysis." City of Davis v. Coleman, 521 F.2d 661, 679 (9th Cir. 1975).
13 The APA requires agencies to adequately respond to all significant public comments
14 as a "fundamental tenet of administrative law." NRDC v. EPA, 859 F.2d 156, 188
15 (D.C. Cir. 1988).
16

17 102. BLM understood that, because the Project would violate the RMP's VRM standards,
18 in order to legally approve the Project, it would have to amend the RMP to remove
19 these requirements.

20 103. BLM's January 21, 2020 Notice of Intent (NOI) to prepare the EIS was released in
21 the Federal Register. BLM acknowledged that if the Project would violate the RMP
22 VRM standards, the RMP would have to be amended to change those requirements.

23 A Land Use Plan Amendment addressing visual resources would be included with
24 the Project and analyzed in the EIS if visual resource issues cannot be mitigated
25 during the exploration, construction, and operation of the Project to conform with
26 the visual resource management class-2 designation in the current RMP, approved
27 in 2015.

28 85 Fed. Reg. 3413, 3414 (Jan. 21, 2020).

104. Yet BLM never amended the RMP, despite admitting that the Project would violate
the RMP standards.

1 105. BLM regulations allow for amendments to RMP's but require at least a 90-day public
2 comment period: "Ninety days shall be provided for review of the draft plan
3 and draft environmental impact statement." 43 C.F.R. §1610.2(e).

4 106. In this case, BLM issued the Draft EIS on July 29, 2020 and provided for only a 45-
5 day comment period. 85 Fed. Reg. 45651 (July 29, 2020). The DEIS contained no
6 mention of BLM's previously-stated need to amend the RMP, despite acknowledging
7 that the Project would violate the VRM standards.

8 107. Neither the ROD nor the FEIS explains why the RMP was never amended, as BLM
9 stated it was required to do in its Federal Register Notice, or how BLM can approve a
10 Project that violates the Visual Protection Standards in the RMP.

11
12 *BLM Cannot Violate the RMPs Based on an Unsupported Belief that LNC Had "Valid Existing
Rights" under Federal Mining Laws*

13 108. As noted, BLM erroneously based its failure to comply with the RMP on the
14 mistaken view that LNC's mere filing of mining claims at the site precludes the agency
15 from ensuring compliance with the RMP because LNC has "valid existing rights" under
16 the 1872 Mining Law. *See, e.g.*, FEIS at 4-45, N-25, N-6, N-9, N-18, Table N.4.

17 109. Yet "valid existing rights" under the Mining Law can only accrue to the company if these
18 claims satisfy the requirements of the 1872 Mining Law for occupancy and possession
19 rights. "A mining claimant has the right to possession of a claim only if he has made
20 a mineral discovery on the claim." Lara v. Secretary of the Interior, 820 F.2d 1535,
21 1537 (9th Cir. 1987). *See also* Davis v. Nelson, 329 F.2d at 845 (9th Cir. 1964)("right
22 to occupation and purchase of the lands" is limited to only those lands "in which
23 valuable mineral deposits are found.").

24
25 110. The ROD authorizes LNC to permanently occupy the public lands with the placement
26 of the waste rock, stockpiles, and tailings waste on the company's mining claims.
27 The Mining Law limits the permanent use and development of mining claims on
28 public lands to only those lands that contain a "valuable mineral deposit." "All
valuable mineral deposits in lands belonging to the United States ... shall be free

- 1 and open to exploration and purchase, **and the lands in which they are found** to
2 occupation and purchase.” 30 U.S.C. § 22 (emphasis added).
- 3 111. Only upon the discovery of a “valuable mineral deposit,” within the boundaries of
4 each mining claim does the claimant have rights to permanently use and occupy those
5 public lands. “Thus, although a claimant may explore for mineral deposits before
6 perfecting a mining claim, without a discovery, the claimant has no right to the
7 property against the United States or an intervenor. 30 U.S.C. § 23 (mining claim
8 perfected when there is a ‘discovery of the vein or lode’); *see also Cole v. Ralph*, 252
9 U.S. 286, 295–96 (1920).” Freeman v. Dept. of Interior, 37 F.Supp.3d 313, 319
10 (D.D.C. 2014). “If there is no valuable mineral deposit beneath the purported
11 unpatented mining claims, the unpatented mining claims are completely *invalid* under
12 the 1872 Mining Law, and no property rights attach to those invalid unpatented
13 mining claims.” Center for Biological Diversity v. U.S. Fish and Wildlife Service,
14 409 F.Supp.3d 738, 748 (D. Ariz. 2019)(emphasis in original).
- 15 112. To satisfy the discovery requirement necessary for possessory and occupation, “the
16 discovered deposits must be of such a character that a person of ordinary prudence
17 would be justified in the further expenditure of his labor and means, with a reasonable
18 prospect of success, in developing a valuable mine.” U.S. v. Coleman, 390 U.S. 599,
19 602 (1968). This economic test for claim validity necessarily includes the
20 consideration of all costs necessary to develop, process, transport, and market the
21 mineral, including costs to protect public land and the environment. “[I]t must be
22 shown that the mineral can be extracted, removed and marketed at a profit.” Id.
- 23 113. There is no evidence in the record that the mining claims covering the thousands of acres
24 of public lands approved for the tailings, stockpiles, waste rock dumps, and other non-
25 extractive operations are valid under the Mining Law.
- 26 114. The Project site is covered by over 300 mining claims, each slightly over 20 acres. *See*
27 Appendix A to LNC Plan of Operations for the Thacker Pass Mine.
28

1 115. BLM has not inquired into, or determined, whether the mining claims at the Project site
2 are valid.

3 116. BLM has not inquired into, or determined, whether the lands to be used outside of the
4 mine pit for the waste and tailings dumps and other non-extractive operations contain
5 valuable mineral deposits under the Mining Law.

6 117. In addition to the lack of any evidence that the claims to be used for waste rock
7 dumps, tailings waste facilities, and other non-extraction operations away from the
8 mine pit are valid under the Mining Law, the evidence in the record shows that the
9 lands covered by these claims do not contain the requisite valuable deposit of a
10 locatable mineral (i.e., those minerals subject to claiming under the 1872 Mining
11 Law).

12 118. Under the Surface Resources and Multiple Use Act of 1955, “common varieties” of
13 minerals, such as rock, gravel, and stone, are not locatable (i.e., cannot be legitimately
14 claimed) under the Mining Law. 30 U.S.C. § 611. Lands consisting of “common
15 varieties” cannot, then, have any “valid existing rights” under federal mining laws.

16 119. BLM has not determined whether the lands to be used for the waste rock dumps, the
17 tailings waste facility, stockpiles, and other non-extractive operations contain locatable
18 minerals or common variety minerals.

19 120. Based on the geologic information in the FEIS, the lands to be covered by the large
20 ancillary waste and processing facilities away from the lands covering the proposed
21 mine pit do not contain the requisite valuable and locatable mineral deposits. At
22 minimum, there is no support in the FEIS for BLM’s position that LNC has satisfied
23 the Mining Law’s requirements for “valid existing rights” to use and possess public
24 lands for permanent disposal of mine waste, stockpiles, and tailings – in violation of
25 the VRM and wildlife protection requirements of the applicable RMPs.
26

27 **Failure to Ensure Compliance With Environmental Protection Laws and Policies.**

28 121. In approving projects like the mine, BLM also must comply with environmental
protection laws and policies, including NEPA and FLPMA.

- 1 122. NEPA is our “basic national charter for protection of the environment.” 40 C.F.R. §
2 1500.1(a).¹
- 3 123. Congress enacted NEPA to ensure that federal agencies, before approving a Project,
4 (1) consider and evaluate all environmental impacts of their decisions and (2) disclose
5 and provide an opportunity for the public to comment on such environmental impacts.
6 40 C.F.R. §§ 1501.2, 1502.5. “NEPA procedures must ensure that environmental
7 information is available to public officials and citizens before decisions are made and
8 before actions are taken.” 40 C.F.R. § 1500.1(b). This review must be supported by
9 detailed data and analysis – unsupported conclusions violate NEPA. *See Idaho*
10 *Sporting Congress v. Thomas*, 137 F.3d 1146, 1150 (9th Cir. 1998); *N. Plains v.*
11 *Surface Transp. Bd.*, 668 F.3d 1067, 1075 (9th Cir. 2011)(conclusions must be
12 supported by reliable studies).
- 13
- 14 124. To this end, NEPA requires federal agencies to prepare a detailed Environmental
15 Impact Statement (EIS) for all “major Federal actions significantly affecting the
16 quality of the human environment.” 42 U.S.C. § 4332(2)(C).
- 17 125. An EIS must include a full and adequate analysis of environmental impacts of a
18 Project and alternatives and take a “hard look” at the direct, indirect, and cumulative
19 impacts of the Project and its alternatives, resulting from all past, present, and
20 reasonably foreseeable future actions. 40 C.F.R. §§ 1508.7, 1508.8, 1508.9,
21 1508.25(c).
- 22 126. NEPA requires that the FEIS fully review and determine how the Project will comply
23 with all relevant federal and state environmental and public land laws. *See* 40 C.F.R.
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26 ¹ The national NEPA regulations were recently revised, which became effective on September
27 14, 2020. 85 Fed. Reg. 43304-43376 (July 16, 2020). However, because BLM conducted its
28 NEPA review for this Project before the new regulations became effective, the NEPA regulations
existing prior to September 14, 2020, at 40 C.F.R. Part 1500, apply here. *See, e.g.*, FEIS at 5-1,
quoting 40 C.F.R. §1508.7 for the requirement to analyze, and definition of, “cumulative
effects,” from the previous NEPA regulations.

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§ 1502.2(d) (requiring an EIS to state how alternatives and decisions “will or will not achieve the requirements of . . . other environmental laws and policies.”)

127. FLPMA requires that: “In managing the public lands the Secretary [of Interior] shall, by regulation or otherwise, take any action necessary to prevent unnecessary or undue degradation of the lands.” 43 U.S.C. § 1732(b).

128. Failure to conduct a proper NEPA analysis violates not only NEPA, but FLPMA’s mandate to prevent “unnecessary or undue degradation, or UUD”, which is a fundamental requirement of BLM’s review of proposed mining plans under FLPMA. As the Interior Department has held:

Like NEPA, the [UUD] definition requires BLM to consider the nature and extent of surface disturbances resulting from a proposed operation and environmental impacts on resources and lands outside the area of operations. Kendall's Concerned Area Residents, 129 IBLA 130, 140-41 (1994); Nez Perce Tribal Executive Committee, 120 IBLA 34, 36 (1991); see Sierra Club v. Hodel, 848 F.2d 1068, 1078, 1091 (10th Cir.1988) (nondegradation duty is mandatory). . . . [M]ost disturbed land at the mine sites is public land and other public land is adjacent to them. **To the extent BLM failed to meet its obligations under NEPA, it also failed to protect public lands from unnecessary or undue degradation.**

Island Mountain Protectors, 144 IBLA 168, 202, 1998 WL 344223, * 28 (Interior Board of Land Appeals, IBLA)(internal citations omitted, emphasis added).

129. To prevent unnecessary and undue degradation, BLM must ensure that all environmental protection standards will be met at all times. 43 C.F.R. § 3809.5 (definition of “Unnecessary of Undue Degradation” prohibited under FLPMA includes “fail[ure] to comply with one or more of the following: . . . Federal and state laws related to environmental protection.”)

130. As part of its duties to prevent UUD and irreparable harm to public land resources under FLPMA, BLM has established a national policy to protect designated Sensitive Species.

The objectives of the BLM special status species policy are:

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- A. To conserve and/or recover ESA-listed species and the ecosystems on which they depend so that ESA protections are no longer needed for these species.
- B. To initiate proactive conservation measures that reduce or eliminate threats to Bureau sensitive species to minimize the likelihood of and need for listing of these species under the ESA.

U.S. Dep’t of the Interior BLM, Special Status Species Mgmt. Manual 6840 at 3 (2008)
 (“Special Status Species Manual”).

131. BLM policy acknowledges its duty under FLPMA to protect Sensitive Species:

It is in the interest of the BLM to undertake conservation actions for such species before listing is warranted. It is also in the interest of the public for the BLM to undertake conservation actions to improve status of Sensitive Species so sensitive recognition is no longer warranted. By doing so, BLM will have greater flexibility in managing public lands to accomplish native species conservation objectives and other legal mandates.

...
In compliance with existing laws, including the BLM multiple use mission as specified in the FLPMA, the BLM shall designate Bureau sensitive species and implement measures to conserve these species and their habitats, including ESA proposed critical habitat, to promote their conservation and reduce the likelihood and need for such species to be listed pursuant to the ESA.

BLM Special Status Species Manual at 36.
<https://www.ntc.blm.gov/krc/uploads/1110/BLM%20MS%206840%20Special%20Status%20Species%20Management%20Dec%202008.pdf>

132. BLM failed these duties, as it never determined whether the Project and its alternatives would fully “achieve ... all relevant environmental laws and policies.” 40 C.F.R. § 1502.2(d). At a minimum, the FEIS never analyzes: (1) whether, and how, the Project will fully comply with all applicable RMP provisions; (2) whether, and how, all water and air quality standards will be met at all times; and (3) whether, and how, BLM will comply with substantive State and Federal laws and its own policies that mandate protection of wildlife and plants.

1 Failure to Ensure Compliance With Water Quality Standards

2 133. As noted, to comply with FLPMA’s mandate to prevent UUD, approved projects
3 must comply with water quality standards. See 43 C.F.R. § 3809.420(b)(4) (listing
4 Performance Standards that must be met, including the requirement that “All
5 operators shall comply with applicable Federal and state water quality standards,
6 including the Federal Water Pollution Control Act [Clean Water Act], as amended
7 (30 U.S.C. 1151 *et seq.*)”

8 134. The Winnemucca RMP also requires compliance with all water quality standards:
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10 **GOAL: Manage for healthy watersheds across the landscape. Protect and**
11 **maintain watersheds so they appropriately capture, retain, and release**
12 **water of quality that meets State and national standards. Ensure public**
13 **lands are capable of providing long-term sustainable water for local**
14 **community needs and for land management activities, while minimizing**
15 **impacts on the local ecosystem hydrologic functions and processes.**

16 **Objective WR 1:** Manage BLM and BLM-authorized activities and uses to
17 prevent degradation of water quality beyond established standards, as specified in
18 the Nevada Water Pollution Control Regulations (NRS Ch. 445A) and the
19 Memorandum of Understanding (MOU) of September 2004 between BLM and
20 the State of Nevada, Division of Environmental Protection. This memorandum
21 concerns diffuse source water pollution and the Nevada State 208 Water Quality
22 Plan.

23 RMP at 2-7 (emphasis in original).

24 135. BLM failed to meet these requirements because antimony, a harmful pollutant in the
25 mine pit backfill, will be released into the groundwater that will exceed water quality
26 standards.

27 136. BLM admitted that: “Geochemical modeling results indicate that pore water in [the
28 mine] backfill will exceed MCLs [Maximum Contaminant Levels] for longer than 20
pore volumes (Water Quantity and Water Quality Impacts report, Appendix P of this
EIS).” FEIS at R-121.

Because saturated groundwater that would flow from the pit backfill would exceed
standards, BLM was prohibited from approving the Project, as under FLPMA and

- 1 BLM's mining regulations (43 C.F.R. Part 3809), BLM cannot approve an operation
2 that is predicted to violate water quality standards.
- 3 138. The backfilled pits are expected to have through-flowing groundwater when they fill,
4 and would thus be long-term sources of pollutants to down-gradient groundwater.
5 As GBRW stated in its comments on the Draft EIS (Comment P570): "The
6 groundwater model used to support the DEIS does recognize the backfilled pits as
7 long-term pollution sources, and include an estimate for the extent of the antimony
8 plume that will exceed the 0.006 mg/L MCL out to 300 years beyond closure." *See*
9 *also* FEIS Figure 6.10. "Antimony 0.006 mg/L isopleth through time (proposed
10 action)," Piteau Associates 2020, FEIS Thacker Pass Lithium Mine Project
11 Appendix P Part 4).
- 12 139. To purportedly prevent these violations, the FEIS relies on as-yet-undefined future
13 plans not subject to public NEPA and FLPMA review. *See* BLM Response to P572:
14 "Potential impacts to groundwater water quality downgradient from the backfilled pit
15 would be addressed as outlined in Mitigation WR-3 provided in Section 4.3.2 of
16 EIS."
- 17 140. The "Mitigation WR-3" cited in the BLM response is "Groundwater Quality
18 Monitoring and Groundwater Quality Management Plans," which states that "in the
19 event that constituent concentrations exceed established regulatory thresholds at one
20 or more established compliance monitoring points, and the exceedance is attributable
21 to contamination originating from mine facilities or operations, LNC would provide
22 the BLM and NDEP with a groundwater quality management plan for review and
23 approval" (FEIS pg. 4-26, Section 4.3.2 "Recommended Mitigation and
24 Monitoring").
- 25 141. Plaintiffs had specifically requested BLM to provide these plans during the NEPA
26 process, but BLM refused. *See* GBRW Comment P572: "Present a model for an
27 alternative closure option for the backfilled pits that prevents the release of pollutants
28 in a groundwater plume, such as a period of active pumping and treating of pore

1 water until the discharge from the waste-rock backfill is below the groundwater
2 MCLs.”

3 142. Since the FEIS predicts the exceedances of acceptable water quality levels, this
4 reliance on future, as-yet-unreviewed plans violates NEPA and FLPMA.

5 143. The U.S. Environmental Protection Agency (EPA) strongly criticized BLM’s failure
6 to adequately analyze impacts to water quality, and ensure against any potential
7 exceedance of water quality standards:

8 **Unmanaged Groundwater Quality Degradation**

9 As explained in the Final EIS, **adverse effects to groundwater quality are**
10 **expected from all action alternatives. Without mitigation, a plume of**
11 **groundwater exceeding the Nevada Division of Environmental Protection**
12 **Profile I Reference Values for antimony is expected to flow uncontrolled**
13 **from the backfilled pit.** According to fate and transport modeling included in
14 the EIS (Appendix P Part 1 p. 125-133), the preferred alternative (Alternative A)
would result in a plume extending approximately one-mile (p. 4-26) downgradient
of the pit 300-years post-closure at levels still above Profile I (Appendix P Part 1
p. 132-133).

15 “EPA’S DETAILED COMMENTS ON THE FINAL ENVIRONMENTAL
16 IMPACT STATEMENT FOR THE THACKER PASS PROJECT, HUMBOLDT
17 COUNTY, NEVADA, JANUARY 4, 2020,” at 1, contained in EPA’s January 4,
18 2021 letter to BLM (EPA’s Detailed Comments on FEIS)(emphasis added).

19 144. EPA further noted that the FEIS failed to adequately review mitigation required to
20 prevent this contamination:

21 While the Final EIS includes three conceptual options that have the potential to
22 mitigate antimony groundwater contamination (Appendix P Part 1 p. 154-159),
23 **the plans are not developed with an adequate level of detail to assess whether**
24 **or how groundwater quality downgradient from the pit would be effectively**
25 **mitigated.** In our comments on the Draft EIS, the EPA recommended more
26 detailed information about how effective these potential mitigation options could
be, and an evaluation of additional disturbance and impacts from implementing
the proposed mitigation options (40 CFR 1508.25(a)(1)(iii)).

27 Id. (emphasis added).

28 145. EPA highlighted how BLM failed to respond to these serious concerns:

1 In response, the BLM stated that options for blending/discharge and active
2 treatment “have not been evaluated, and therefore may not be feasible for
3 consideration as mitigation for the Final EIS” (Appendix R p. R-180). **Therefore,**
4 **conclusions in the Final EIS that groundwater quality management plans**
5 **would “effectively mitigate impacts to groundwater quality downgradient**
6 **from the pit” (p. 4-25) are not adequately supported.**

7 Id. (emphasis added).

8 146. EPA criticized BLM for failing to meet its environmental protection responsibilities
9 at the Mine: **“Without detailed information about mitigation and its efficacy, it is**
10 **unclear how a Record of Decision could state that all practicable means to avoid**
11 **or minimize environmental harm from the alternative selected have been**
12 **adopted.”** Id. (emphasis added).

13 147. EPA also noted that LNC recently submitted a new mitigation plan that purportedly
14 reduces the ground water pollution – but that this plan was submitted long after the
15 NEPA public review process ended:

16 On December 16, 2020, the EPA received a revised version of the Plan of
17 Operation’s Appendix H, “Thacker Pass Project Monitoring Plan,” during the first
18 Water Resources Technical Advisory Group meeting. **This revised monitoring**
19 **plan includes a new potential future mitigation option for groundwater**
20 **quality impacts that was not discussed in the Draft or Final EIS.** This option
21 involves preferentially placing oxide gangue in saturated portions of backfill to
22 reduce the solute load of antimony as compared with the action alternatives in the
23 current EIS. This is not currently a condition of approval or commitment in the
24 Draft ROD, even though the option “may reduce or attenuate antimony mass prior
25 to discharge from the backfill” (Appendix P Part 1 p. 154), which could
26 substantially decrease the modeled 300-year impacts.

27 Id. (emphasis added).

28 148. In addition, both the waste rock dump and the tailing facility are potential sources of
long-term pollution. As noted above, “aluminum, arsenic, antimony, beryllium,
cadmium, chromium, copper, fluoride, iron, lead, magnesium, mercury, nickel,
sulfate, thallium, TDS, and zinc were leached under low pH conditions at
concentrations above Profile I NRVs [Nevada Reference Values].” FEIS Appendix B,
LNC Mine Plan at 41. Further, “testing indicate[s] that for the clay tailings sample,
uranium, gross alpha and radium 226/radium 228 exceed the Profile IR NRVs.” Id.

- 1 149. Thus, seepage from the tailings facility will violate Nevada water quality standards
2 and must be captured and treated. LNC recognizes the potential to contaminate
3 groundwater and is proposing to have a water impervious liner for the tailings facility
4 to capture the seepage. FEIS Appendix B at 41 (LNC mining plan). Yet the lifetime
5 and details regarding this liner are not mentioned in the FEIS, so the public was not
6 able to evaluate how long, and if, it will purportedly prevent groundwater
7 contamination.
- 8 150. For example, the FEIS does not provide any estimate of the volume and rate of
9 drainage initially and over time. According to the FEIS, LNC will direct tailings
10 drainage to the processing facility to be used in the extraction of lithium and other
11 minerals during active mining. After mining is completed seepage is to be directed to
12 a lined collection pond with the assumption that evaporation will be sufficient to
13 prevent overflow from the pond and to eventually reduce the volume of toxic solution
14 so that the ponds can be converted to evapotranspiration cells. FEIS at 4-15.
- 15 151. Yet there is no detailed information or analysis on the time frame and volume of
16 drainage, so the public has no way to evaluate this mitigation plan. There is no
17 analysis of the potential for toxic drainage to occur after the lifetime of the liner.
18 LNC states that the tailings facility is designed to be a “zero discharge” facility, but
19 the FEIS does not analyze how the design will ensure a “zero discharge” outcome
20 indefinitely.
- 21 152. For example “evaporation cells” are intended to be the final reclamation for tailings
22 drainage, but the level of toxicity is so high in the drainage that the cells are likely to
23 remain a threat to people and wildlife indefinitely. FEIS at 4-15. But there are no
24 details as to how these cells can be reclaimed to avoid this long-term threat.
- 25 153. Further, as explained below, BLM has yet to account for the costs for the
26 construction, operation, and maintenance of this treatment, which should have been
27 included in the reclamation/closure financial guarantee/bond in the ROD, as required
28 by FLPMA and the 43 C.F.R. Part 3809 regulations.

1 Failure to Ensure Compliance With Air Quality Standards

2 154. The FEIS and ROD do not ensure compliance with all applicable air quality
3 standards, as required by FLPMA. Nor did BLM fully review all air quality issues as
4 required by NEPA.

5 155. As noted, failure to comply with air quality standards violates FLPMA because it
6 constitutes UUD. *See, e.g.*, 43 C.F.R. § 3809.5 (definition of “Unnecessary of Undue
7 Degradation” prohibited under FLPMA includes “fail[ure] to comply with one or
8 more of the following: ... Federal and state laws related to environmental
9 protection.”); *id.* § 3809.420(b)(4) (listing Performance Standards that must be met,
10 including the requirement that “All operators shall comply with applicable Federal
11 and state air quality standards, including the Clean Air Act (42 U.S.C. 1857 *et seq.*)”

12 156. It also violates the Winnemucca RMP, which requires compliance with all air quality
13 standards:

14 **AIR QUALITY (AQ)**

15 **GOAL: Meet all applicable local, state, tribal and national ambient air**
16 **quality standards and regulations under the Clean Air Act (as amended).**

17 **Objective AQ 1:** Manage BLM actions and land use authorizations to prevent
18 significant deterioration of Federal Class 1 areas and from exceeding air quality
19 standards specified by the State of Nevada, Division of Environmental Protection
20 or other applicable federal, state, or local air quality standards.

21 RMP at 2-6 (emphasis in original).

22 157. In their comments on the DEIS, Plaintiffs specifically raised the serious air quality
23 concerns to BLM, describing how the sulfur dioxide emissions analysis is inadequate.
24 For example, in Table 4.10, the DEIS, and then the FEIS, claimed that in Phase I the
25 facility would emit only 75.8 tons per year (TPY) of sulfur dioxide (SO₂) for the
26 337,895 tons of sulfur anticipated to be burned to produce the sulfuric acid..

27 158. But, as Plaintiffs pointed out, no currently-existing technology is capable of achieving
28 this reduction in emissions as asserted by BLM and LNC. According to the national
“Acid Plant Database,” Rio Tinto’s Kennecott Copper smelter in Utah is “the cleanest
in the world” and “captures 99.9% of the sulfur dioxide emissions produced.” The

1 same document from the “Acid Plant Database” listed the emissions concentration at
2 <100 ppm in SO₂. DKL Engineering, Inc., “Sulphuric Acid on the Web”,
3 [http://www.sulphuric- acid.com/sulphuric-acid-on-the-web/home.htm](http://www.sulphuric-acid.com/sulphuric-acid-on-the-web/home.htm), an online
4 sulfuric acid database, last updated June 29, 2020. Kennecott Data Sheet from
5 January 27, 2018 (viewed December 27, 2020).

6 159. LNC is thus proposing an acid plant that will purportedly be on the order of 5 to 10
7 times cleaner in SO₂ than the current state-of-the-art industry standard and the
8 “cleanest in the world.”

9 160. Nevertheless, the FEIS assumes these massive emissions reductions will be achieved
10 based upon application of “state-of-the-art” technology—without identifying what
11 that technology is:
12

13 In order to minimize the emissions from the sulfuric acid plant, **LNC has**
14 **committed to installing a state-of-the-art scrubbing control**, which is above
15 customary industry standard. As a result, the sulfur dioxide and acid mist
16 emissions from the sulfuric acid plant will be well below the emission standards
17 (4 pounds SO₂ per ton of acid produced and 0.15 pounds H₂SO₄ per ton of acid
18 produced) in the Code of Federal Regulations, Title 40, Part 60 (40 CFR 60),
19 Subpart H, Standards of Performance for Sulfuric Acid Plants. **While the exact**
20 **scrubbing system has not yet been determined**, LNC has committed to
21 installing a control that, at the minimum, meets the emission levels used in this
22 analysis.

23 FEIS, App. K at 6-7 (emphasis added). Since the FEIS does not disclose what this
24 technology will be, and indeed it “has not yet been determined,” neither the public
25 nor the agency can fairly assess the likely effectiveness on this technology as a
26 mitigation for sulfur dioxide emissions, in violation of NEPA and FLPMA. Neither
27 BLM nor the public has any assurance that the technology actually exists.

28 161. BLM failed to explain how the effectiveness of these measures can be determined
from so little information. Under NEPA and FLPMA, BLM must fully analyze,
detail, and confirm the effectiveness of such purported mitigation measures.

1 162. Plaintiffs requested that BLM provide the required specifics to be able to analyze
2 whether the acid plant emissions are likely to meet the goals listed in the FEIS. But
3 BLM refused to provide this required evidence, and the FEIS adds no specific data or
4 analysis on the scrubbing technology, such as its application in another operational
5 acid plant or reasonably scalable laboratory test data.
6

7 163. Further, even if the purported “state-of-the-art technology” were capable of achieving
8 the emissions reductions projections in Phase 1, BLM nevertheless assumes that SO₂
9 emissions will essentially remain the same in Phase 2, despite the fact that production
10 would be doubled.
11

12 164. LNC claims, and BLM assumes, that the projected process emissions from the acid
13 plant for critical air pollutants are largely identical for both Phase 1 and Phase 2.
14 “[T]he total process emissions show only a small increase between Phases 1 and 2.”
15 FEIS Appendix K, at 8. *See* Tables 3 and 4 in Appendix K, showing that the SO₂
16 emissions for Phase 1 at 76.2 tons/year vs. 76.8 tons/year for Phase 2.
17

18 165. There is no evidence to support these bold assumptions, particularly since the “state-
19 of-the-art” technology to be applied is “undetermined.” BLM’s assumption that
20 emissions will stay the same at doubled production, without the required evidentiary
21 support, is arbitrary and capricious.
22

23 166. Thus, the FEIS failed to establish that all air quality standards can be met with clear
24 data and analysis in violation of NEPA and FLPMA.

25 *Failure to Take a Hard Look at Baseline Conditions and Impacts to Wildlife*

26 167. The FEIS failed to take a hard look at impacts from the proposed mine to Threatened,
27 Sensitive and other special status birds, wildlife, and plants in the Project area,
28 including State of Nevada Species of Conservation Concern and At-Risk species.

1 BLM does not have adequate baseline information to understand special status and
2 imperiled species' presence in, and use of, the Project area and thus, to analyze how
3 they will be affected by the mine development.
4

5 168. The establishment of the baseline conditions of the affected environment is a
6 fundamental requirement of the NEPA process, because an inadequate environmental
7 baseline precludes an accurate assessment of Project impacts. Or. Nat. Desert Ass'n
8 v. Jewell, 823 F.3d 1258 (9th Cir. 2016). “[W]ithout [baseline] data, an agency
9 cannot carefully consider information about significant environment impacts. Thus,
10 the agency fails to consider an important aspect of the problem, resulting in an
11 arbitrary and capricious decision.” N. Plains Resource Council, Inc. v. Surface
12 Transp. Bd., 668 F.3d 1067, 1085 (9th Cir. 2011).
13

14 169. In many cases, the biological information about the species is so vague as to render
15 the analysis and any proposed mitigation meaningless. Plaintiffs provided detailed
16 scientific information on the baseline conditions and impacts to the affected species,
17 which were largely ignored by BLM.
18

19 Greater Sage-Grouse

20 170. As noted above, the Project will have serious impacts to greater sage-grouse that
21 BLM has failed to consider or address. The Project will completely sever the southern
22 half of the eastern portion of the Lone Willow PMU from the northern portion—an
23 effect BLM overlooked in its sage-grouse analysis. And, according to NDOW, noise
24 from the Project may also have significant effects to the Montana-10 and Pole Creek
25 01 leks, which in turn would affect the sage-grouse population in the Lone Willow
26 PMU, but BLM failed to disclose or consider those likely effects.
27
28

1 171. Moreover, while the FEIS admits that significant effects to sage-grouse are
2 anticipated from the Project, it fails to provide basic information necessary to
3 determine what those effects will be. It does not disclose baseline sage-grouse
4 populations in the Project area and in the PMU or describe how they use seasonal
5 habitats in the Project area. The FEIS does not even disclose which Priority Area for
6 Conservation (PAC) the PMU is in, although it is within the Western Great Basin
7 PAC, which extends into Oregon and California. Without this baseline information,
8 the FEIS fails to provide sufficient information to assess impacts to the bird from
9 likely destruction of the populations at Thacker Pass and the southeastern portion of
10 the Lone Willow PMU. And, because there is no adequate baseline, monitoring to
11 discern changes to sage-grouse populations in the Project area would be meaningless.
12 Plaintiffs provided to BLM several resources concerning the need to consider effects
13 to sage-grouse seasonal habitats at both landscape and local level scales to adequately
14 discern impacts to the birds, but these were ignored by BLM.

15
16 172. The FEIS also does not disclose where leks are located relative to different types of
17 development and how they may be impacted. For instance, as NDOW pointed out in
18 comments: “Based on average lek attendance, the Montana-10 lek is one of the three
19 largest leks in the Lone Willow PMU and the loss of this lek would likely be of high
20 consequence to greater sage-grouse populations.” FEIS at R-184. But the FEIS does
21 not disclose how the impacts from the development of the Project within a mile of
22 this critical lek will likely affect sage- grouse populations in the Project area, the
23 PMU, or the PAC.

24 173. Indeed, even though the FEIS discloses that, according to projections by NDOW,
25 noise from the Project will likely exceed levels known to cause declines in lek
26 attendance on two leks in the Project area, the FEIS does not disclose what those
27 impacts will be. *See* FEIS at 4-53. NDOW commented that noise from the Project
28 could cause the critical Montana-10 lek to be abandoned, which would likely have
population-level effects that BLM never considered. BLM refused to apply the 3.1

1 mile lek buffer recommended by the best available science to insulate sage-grouse
2 from the effects of locatable mineral development. Plaintiffs likewise submitted
3 numerous studies to BLM showing drastic sage-grouse population declines and lek
4 abandonment in response to disturbance from energy development and mining, but
5 these were again ignored by BLM.

6 174. The Project area will be subject to long-term dewatering post-mine, which will likely
7 affect wet meadows used by sage-grouse during the brood-rearing season, but the
8 compensatory mitigation planned contains no permanent credits to offset those
9 impacts. *See* FEIS at 4-45. The lack of permanent mitigation credits means that long-
10 lasting, persistent impacts to sage-grouse from the open pit mine are unaddressed.

11 175. Thus, many statements in the FEIS and in the BLM's response to comments claiming
12 the effects of the Project on sage-grouse will be fully mitigated through conservation
13 credits are false. For example, the FEIS states in response to comments: "The
14 [Conservation Credit System] provides a regulatory mechanism for GRSB habitat
15 protection that ensures habitat effects from anthropogenic disturbances (debits) are
16 *fully compensated* by long-term enhancement and protection of habitat that result in a
17 net benefit for the species." FEIS at R-106, R-135 (emphasis added). But this is
18 inaccurate and misleading as BLM does not require full compliance with all needed
19 Credits and understates the impacts to sage-grouse from the Mine.

20 176. The FEIS also fails to consider reasonably foreseeable effects to sage-grouse from the
21 Project. For instance, it does not consider effects to sage-grouse from cutting off the
22 southeastern part of the PMU from the rest of the PMU, either to sage-grouse
23 populations in the PMU or to sage grouse population in the PAC of which the PMU is
24 part. Nor does it discuss effects to sage-grouse populations from likely decreases in
25 attendance or abandonment of the Montana-10 and Pole Creek 01 leks due to
26 unmitigated noise and disturbance from the Project.

27 177. The FEIS also does not consider effects of the Project in light of the effects of
28 wildfire that eliminated 48 percent of the sagebrush habitat in the PMU. The FEIS

1 never discusses how much viable sage-grouse habitat remains in this PMU post fire,
2 and how impacts from the mine would affect the remaining habitat.

3 178. The FEIS also does not disclose effects to sage grouse from permanent destruction of
4 nesting and brood-rearing habitat from mine-caused groundwater drawdown—effects
5 that are not offset in any way by the planned mitigation.

6 179. Indeed, the FEIS does not disclose how impacts to any sage-grouse seasonal habitats
7 in the Project area are likely to affect the species. Plaintiffs submitted scientific
8 studies regarding sage-grouse habitat needs, including their use of seasonal habitats,
9 but these were again ignored by BLM.

10 Golden Eagles

11 180. Golden eagles are protected under both the Bald and Golden Eagle Protection Act, 16
12 U.S.C. §§ 668-668c (BGEPA), and the Migratory Bird Treaty Act, 16 U.S.C. §§ 703-
13 712 (MBTA). Both laws prohibit “take” without permits. The BGEPA’s definition
14 of “take” includes disturbance, defined in later regulation as “to agitate or bother a
15 bald or golden eagle to a degree that causes, or is likely to cause, injury to an eagle, a
16 decrease in productivity, or nest abandonment.” 50 C.F.R. § 22.3.

17 181. The Project’s eagle nest surveys for the Thacker Pass mine were conducted in 2018
18 and 2019 with a 10-mile buffer and an additional surveyed area beyond that going out
19 to about 20 miles to the south of the Project. *See* Thacker Pass Eagle Conservation
20 Plan at 10. Additional surveys with a 2-mile buffer were proposed for 2020. Thacker
21 Pass Eagle Conservation Plan at 10. Within the 10-mile buffer, 10 territories were
22 considered occupied in 2018 and 10 were considered occupied in 2019. Four
23 territories were considered occupied during the 2020 survey that used the new two-
24 mile buffer. FEIS at 4-57.

25 182. Nevertheless, the FEIS concludes that only one nest is likely to be disturbed to an
26 extent that take is likely. FEIS at 4-57. As Plaintiffs explained to BLM, this
27 conclusion is too low given the many nests, potential alternate nests and territories in
28 the immediate area. For example, FEIS Figure 4.5-16 shows three golden eagle

1 territories overlapping the Project area, and concludes that two are unoccupied based
2 on a single year of nest data, which does not accurately reflect golden eagle research.
3 183. Overall, BLM did not respond in the FEIS to the substantive comments and questions
4 about golden eagles and the Bird and Bat Conservation Strategy that Plaintiffs raised
5 in their comments on the DEIS. These concerns include potential disturbance “take”
6 continuing after the end of the five-year take permit, potential “take” greater than
7 authorized by the proposed take permit, the large number of eagle nests in the area,
8 avoidance and minimization measures, monitoring and review of monitoring,
9 research showing that golden eagle take is as likely to happen at alternate golden
10 eagle nests as at used golden eagle nests, the need to base nest risk data on multiple
11 years of data and not just one, and the need to install underground new powerlines at
12 the Project site to reduce risk to eagles and greater sage-grouse.
13

14 Pronghorn

15 184. Nearly the entire Project area is within pronghorn winter range. FEIS Figure 4.5-7.
16 The FEIS discloses that potential direct effects to pronghorn from the Project include
17 the loss of 427 acres of summer range and 4,960 acres of winter range over the life of
18 the mine or longer, depending on the success of reclamation. Two pronghorn
19 movement corridors lie within the Project area. These corridors facilitate access
20 between limited use and winter range habitat to the south of the Project area and
21 winter range, summer range, and year-round habitat to the north of the Project area,
22 and daily movement between the Quinn River Valley and the Montana Mountains.
23 The construction of Project facilities and the associated loss of habitat is likely to
24 prohibit or impede pronghorn movement between seasonal habitats and during daily
25 movement.

26 185. The FEIS does not consider or disclose how severing these pronghorn movement
27 corridors, or destroying nearly 5,000 acres of pronghorn winter range, will impact
28 local pronghorn populations. The FEIS’ consideration of impacts to pronghorn from
the mine development appears limited to vague generalizations like the following:

1 “Surface disturbance associated with mining activities and development of mine
2 facilities...would directly affect wildlife through the loss of potentially suitable
3 habitat by vegetation removal, and removal of seeps and springs and seasonal water
4 sources for wildlife” and “Surface disturbance would also result in habitat
5 fragmentation. Habitat fragmentation can affect species use of the area by reducing
6 the landscape size for species that require large breeding or foraging ranges,
7 increasing barriers to migration or movement, changing abiotic and biotic factors
8 making the habitat less suitable, and reducing access to resources and potential
9 mates.” FEIS at 4-34.

10 186. But these generalizations do not address the effect of severing pronghorn migration
11 corridors or destroying winter range on pronghorn.

12 187. While the FEIS appears to attempt to minimize the impact of the habitat destruction
13 that will occur by comparing the amount of habitat to the total amount of habitat in
14 the regional Hunt Unit 31, it does not consider the significance of this specific
15 pronghorn habitat to the local pronghorn population. Plaintiffs submitted detailed
16 evidence addressing the effects of severing pronghorn migration corridors or
17 destroying winter range for BLM’s consideration but the agency largely ignored these
18 issues in the FEIS.

19
20 Amphibians

21 188. Although the FEIS discloses that western toad, Columbia spotted frog, and northern
22 leopard frog—all Sensitive Species that BLM is mandated to conserve by its own
23 policy and by FLPMA—may be present in the Project area, no amphibian surveys
24 were conducted for the Project and no mitigation measures for amphibians were
25 adopted. The only amphibians specifically discussed in the FEIS is the western toad,
26 and the FEIS paradoxically claims that impacts to the toad are unlikely while
27 simultaneously admitting that “Western toads may be prevented from moving through
28 disturbed upland habitats located between the limited amounts of aquatic/riparian

1 habitat in the Project area.” FEIS at 4-48. Thus, impacts to Western toads are likely,
2 but the FEIS ignores those impacts.

3 189. The FEIS lacks an adequate baseline upon which to analyze Project effects to
4 amphibians from the mine development and has adopted no measures to avoid
5 impacts to amphibians, even though the mine will lower the water table, affecting
6 perennial and ephemeral waterbodies that these species use. The FEIS fails to even
7 mention numerous amphibians that are likely to be present in the Project area.

8 Springsnails

9 190. Two species of springsnails were found in the Project area during wildlife surveys,
10 the Kings River pyrg (*Pyrgulopsis imperialis*) and the turban pebblesnail
11 (*Fluminicola turbiniformis*). See FEIS Appendix G unnumbered page 129 of 133.
12 The Kings River pyrg is a critically imperiled endemic species at high risk of
13 extinction (NatureServe conservation score G1, N1, S1), and the turban pebblesnail is
14 a vulnerable species at moderate risk of extinction or elimination (NatureServe
15 conservation score G3,S3). The Kings River pyrg is on the State of Nevada’s At Risk
16 Tracking List of imperiled species, which are considered at highest risk of extirpation
17 or extinction. The turban pebblesnail is on the State of Nevada’s Watch List of
18 species of long-term concern. The FEIS does not disclose these At Risk and Watch
19 List statuses, instead merely describing the springsnails as “NDOW species of
20 conservation priority.” FEIS Appendix G at unnumbered page 120 of 133. In
21 addition, the Kings River pyrg’s high risk of extinction is nowhere discussed in the
22 FEIS.

23
24 191. The FEIS does not provide clear information as to the number of Kings River pyrg
25 that were found, how many springs contained them, or which springs contained them,
26 thus making it impossible for anyone, including BLM, to accurately assess risk to the
27 pyrg from the Mine. Instead, the FEIS merely states: “Springsnails were surveyed at
28 13 undeveloped springs in the survey area. During surveys for springsnails, the
Kings River pyrg (*Pyrgulopsis imperialis*) was found at all springs collected.” FEIS

1 Appendix G at unnumbered page 129 of 133. Since the Kings River pyrg is an
2 endemic species only known to exist in 13 locations, the local area might contain the
3 **entire known population** of the Kings River pyrg. *See* Conservation Strategy for
4 Springsnails Summary Reports at 4. Threats and stressors to springsnails include
5 water depletions, like the dewatering effects associated with the Mine. NDOW asked
6 in its FEIS comments for monitoring of five of the 13 springs where Kings River pyrg
7 were found to be present, but the ROD contains no commitment to monitoring those
8 springs. NDOW FEIS comments at 4-5. *See also* Wildlife Resource Consultants,
9 Lithium Nevada 2018 Springsnail (*Pyrgulopsis* spp.) Survey, at p. 7, December 19,
10 2018.

11 192. Instead of disclosing and discussing springsnail threats, stressors, and extinction risk,
12 the FEIS fails to mention either the Kings River pyrg or the turban pebblesnail by
13 name in its impacts analysis and states that there will be no direct impacts to
14 springsnails. FEIS at 4-48, 4-50. As for indirect impacts, the FEIS directs the reader
15 to section 4.5.3 (potential impacts of groundwater drawdown to wildlife). But that
16 section does not disclose whether there will be indirect impacts to springsnails or that
17 the potential indirect impacts to wildlife in the Project area may include extinction.
18 FEIS at 4-53 to 4-55. Nor does the FEIS propose any mitigation specifically for
19 springsnails, or explain how the Kings River pyrg will maintain its representation,
20 resiliency, and redundancy, which are all necessary for population integrity and
21 species survival.
22

23 *Lahontan Cutthroat Trout*

24 193. BLM also failed to analyze the baseline conditions and impacts to Lahontan cutthroat
25 trout (LCT), which is protected under the federal Endangered Species Act (ESA), 16
26 U.S.C. §§ 1531 *et seq.*, due to the agency's unsupported position that the Project will
27 not have any effect on LCT in Crowley Creek, Pole Creek, and related habitat within
28 the Project area. BLM erroneously assumed, in contradiction of the record, that there

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was no LCT stream habitat that would be affected by the Project’s dewatering and other operations.

194. BLM approved the ROD based on the FEIS’s inadequate, incomplete, and, in several cases, incorrect analysis and collection of the baseline streamflow data and, thereby failed to consider the likely impacts of the Mine on the LCT populations in Pole Creek and Crowley Creek.

195. BLM also elected not to apply quantitative buffers to Pole Creek, Crowley Creek, and spring sites in the Project area as requested by NDOW to protect LCT.

196. In reliance on the flawed data provided by the company’s consultants, BLM did not consult with the U.S. Fish and Wildlife Service (FWS), based on BLM’s erroneous belief that there would “no effect” to LCT from the mine, including the mine’s large-scale dewatering of the regional aquifer.

197. Yet the ESA requires such consultation when BLM takes an action (such as reviewing and approving a mine plan) that “may affect listed species or critical habitat” for that species. Karuk Tribe of California v. U.S. Forest Service, 681 F.3d 1006, 1020 (9th Cir. 2012) *citing* 16 U.S.C. §1536(a)(2) and *quoting* 50 C.F.R. §402.14(a). “We have previously explained that ‘may affect’ is a ‘relatively low’ threshold for triggering consultation.” Karuk Tribe, 681 F.3d at 1027.

198. Due to the ESA’s jurisdictional requirement that Plaintiffs may not assert a failure-to-consult claim under the ESA before providing BLM, FWS, and related officials with 60 days’ notice, Plaintiffs intend to promptly file such notice and, if BLM does not comply with the ESA within those 60 days, amend this Complaint to add such claim under the ESA.

199. In any event, however, the FEIS’ erroneous determination that there will be “no effect” from the Mine on LCT or its habitat violates NEPA’s and FLPMA’s mandates that BLM fully and accurately analyze all baseline conditions and environmental impacts of the Mine.

1 *Failure to Adequately Analyze Cumulative Impacts*

- 2 200. As noted, NEPA requires BLM to consider cumulative impacts associated with
3 actions it approves. “‘Cumulative impact’ is the impact on the environment which
4 results from the incremental impact of the action when added to other past, present,
5 and reasonably foreseeable future actions regardless of what agency (Federal or non-
6 Federal) or person undertakes such other actions. Cumulative impacts can result from
7 individually minor but collectively significant actions taking place over a period of
8 time.” 40 C.F.R. § 1508.7.
- 9 201. As the Ninth Circuit held: “[i]n a cumulative impact analysis, an agency must take a
10 ‘hard look’ at *all* actions’ that may combine with the action under consideration to
11 affect the environment. *Te–Moak Tribe of W. Shoshone of Nev. v. U.S. Dep’t of*
12 *Interior*, 608 F.3d 592, 603 (9th Cir. 2010).” Great Basin Resource Watch, 844 F.3d
13 at 1104 (emphasis in original). BLM failed to do that here.
- 14 202. The FEIS fails to adequately analyze the cumulative impacts from the other proposed
15 activities within the cumulative effects study area on wildlife, air quality, and other
16 potentially affected resources.
- 17 203. NEPA’s obligation to consider cumulative impacts extends to all “past,” “present,”
18 and “reasonably foreseeable future actions.” 40 C.F.R. § 1508.7. This analysis must
19 include Project-specific cumulative data, a detailed quantified assessment of other
20 projects’ combined environmental impacts, and objective quantification of the
21 impacts from other past, existing and proposed activities within the Cumulative Effect
22 Study Area (CESA). Great Basin Resource Watch, 844 F.3d at 1104-06.
- 23 204. The FEIS acknowledges the large “Cumulative Effects Study Area” for critical
24 resources that will be affected by the Project:
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Table 5.1. Cumulative Effects Study Areas by Resource

Resource	CESA Description	CESA Name	Size of CESA (acres)
Water Resources	Effect Model Domain	Groundwater CESA	288,501
	Quinn River and Kings River Valley hydrographic basins	Surface Water CESA	596,480
Vegetation and Wetlands	Quinn River and Kings River Valley hydrographic basins	Vegetation CESA	596,480
General Wildlife	NDOW Hunt Unit 031	Recreation CESA	86,104
Special Status Species – GRSG	Lone Willow PMU	GRSG CESA	480,106
Special Status Species – Eagles	Project area and a 10-mile buffer	Eagle CESA	218,391
Special Status Species – LCT	Quinn River and Kings River Valley hydrographic basins	LCT CESA	596,480

FEIS at 5-1.

205. BLM lists some of the other activities within the Thacker Pass CESA:

Table 5.2. Surface Disturbance Associated with Past and Present Actions and RFFAs within the Resource CESAs

Action	Past and Present Disturbance (acres)	Projected RFFA Disturbance (acres)	Total Disturbance (acres)
Mines and Quarries			
National Mine Exploration Project1	-	200	200
Moonlight Uranium Mine	14.6	-	14.6
Kings Valley Clay Mine	50.5	-	50.5
Sand and Gravel Operations	24	-	24
Utilities and Infrastructure			
Roads	12,485	-	12,485
Railroads	1,479	-	1,479
Communication Sites	249	-	249
Transmission Lines	4,209	-	4,209
Other			
Wildfires	22,459	-	22,459
Total	40,970	200	41,170

FEIS at 5-2.

1 206. Yet the FEIS contains little, if any, of the detailed analysis of these and other past,
2 present, and reasonably foreseeable future activities within the CESA that may
3 cumulatively affect these resources.

4 207. BLM simply lists the acreages of these activities, with no detailed impacts analysis:

5 Reasonably Foreseeable Future Actions

6 RFFAs for the Thacker Pass Lithium Mine EIS cumulative effects analysis include
7 other projects or actions that potentially affect those resources that would be
8 affected by the Proposed Action during the same period of time (including final
9 reclamation). RFFAs for which disturbance acreages can be quantified are
10 presented in Table 5.2 and RFFAs for which disturbance acreages are unknown are
11 described below. RFFAs identified in this section must also have been determined
12 by the BLM as having a reasonable likelihood of moving forward towards
13 development and to be located within the boundaries of the various CESAs for the
14 Proposed Action.

15 Other development predicted in the Winnemucca District Resource Management
16 Plan that could contribute to cumulative effects includes renewable energy
17 facilities, utility and road rights of way, vegetation treatments and hazardous fuels
18 reduction, spread and invasion of noxious weeds, continued changes and possible
19 intensification to Nevada's climate in association with global climate change, and
20 increasing wildfire occurrence and intensity.

21 FEIS at 5-3.

22 208. The Ninth Circuit recently rejected a similarly cursory analysis contained in another
23 BLM EIS for a large open pit mine in Nevada:

24 **[I]n a cumulative impact analysis, an agency must take a ‘hard look’ at all
25 actions” that may combine with the action under consideration to affect the
26 environment. *Te–Moak Tribe of W. Shoshone of Nev. v. U.S. Dep't of Interior*,
27 608 F.3d 592, 603 (9th Cir. 2010) (emphasis added). Furthermore, **simply listing
28 all relevant actions is not sufficient.** Rather, “some quantified or detailed
information is required. Without such information, neither the courts nor the
public ... can be assured that the [agency] provided the hard look that it is required
to provide.” *Neighbors of Cuddy Mountain v. U.S. Forest Serv.*, 137 F.3d 1372,
1379 (9th Cir. 1998).**

29 *Great Basin Resource Watch v. BLM*, 844 F.3d 1095, 1104 (9th Cir. 2016)(emphasis
30 added).

31 209. NEPA requires “mine-specific . . . cumulative data,” a “quantified assessment of their
32 [other projects] combined environmental impacts,” and “objective quantification of

1 the impacts” from other existing and proposed operations in the region. Great Basin
2 Mine Watch v. Hankins, 456 F.3d 955, 971-74 (9th Cir. 2006). The Ninth Circuit in
3 Great Basin Mine Watch v. Hankins specifically rejected BLM’s argument that a list
4 of other projects and their acreages satisfied NEPA’s cumulative impacts analysis
5 requirements: “A calculation of the total number of acres to be impacted by other
6 projects in the watershed is a necessary component of a cumulative effects analysis,
7 but is not a sufficient description of the actual environmental effects that can be
8 expected.” Id. at 973 (citations omitted).

9
10 210. For example, the FEIS does not even mention the ongoing McDermitt lithium drilling
11 project just to the north across the Oregon border that will have significant impacts on
12 sage grouse, pronghorn, and other wildlife species. [https://company-](https://company-announcements.afr.com/asx/jrl/25f78400-278c-11eb-ac8c-2e2b57e0ab13.pdf)
13 [announcements.afr.com/asx/jrl/25f78400-278c-11eb-ac8c-2e2b57e0ab13.pdf](https://company-announcements.afr.com/asx/jrl/25f78400-278c-11eb-ac8c-2e2b57e0ab13.pdf) (Nov.
14 16, 2020) (depicting and describing drilling and activities over thousands of acres).

15 211. For the sage grouse, BLM arbitrarily cuts off its review of cumulative impacts at the
16 Nevada/Oregon border, limiting its review to only the “Lone Willow PMU” which
17 ends at the border. FEIS at 5-1. Yet the Lone Willow PMU is part of a larger sage
18 grouse PAC (Priority Area of Conservation) that does not end at the OR-NV state
19 line. *See* U.S. Fish and Wildlife Service, 2013, Greater Sage-grouse (*Centrocercus*
20 *urophasianus*) Conservation Objectives: Final Report. U.S. Fish and Wildlife Service,
21 at 14 (Figure 2. Sage-grouse management zones (Stiver *et al.* 2006) and Priority
22 Areas for Conservation (PACs)).

23 [https://www.fws.gov/greatersagegrouse/documents/COT-Report-with-Dear-](https://www.fws.gov/greatersagegrouse/documents/COT-Report-with-Dear-Interested-Reader-Letter.pdf)
24 [Interested-Reader-Letter.pdf](https://www.fws.gov/greatersagegrouse/documents/COT-Report-with-Dear-Interested-Reader-Letter.pdf)

25 212. The FEIS also arbitrarily truncates its review of cumulative impacts to other wildlife
26 at the Oregon/Nevada border, even though it is obvious that wildlife movement and
27 impacts do not recognize such an arbitrary line. For example, the FEIS limits its
28 consideration of cumulative wildlife impacts to “General Wildlife” to just the
“NDOW Hunt Unit 031” covering the “Recreation CESA” of just 86,104 acres. FEIS

1 at 5-1 (Table 5.1 “Cumulative Effects Study Areas by Resource,”). Yet BLM
 2 provides no analysis as to why the “Hunt Unit” area comprises all of the affected
 3 wildlife resources. There is no analysis to support these arbitrary limits to cumulative
 4 impacts to wide-ranging species such as migratory pronghorn.

5 *Failure to Adequately Analyze Mitigation Measures and Their Effectiveness*

6 213. NEPA requires DOI/BLM to fully analyze mitigation measures, their effectiveness, and
 7 any impacts that might result from their implementation. NEPA regulations require that
 8 an EIS: (1) “include appropriate mitigation measures not already included in the
 9 proposed action or alternatives,” 40 C.F.R. § 1502.14(f); and (2) “include discussions of:
 10 . . . Means to mitigate adverse environmental impacts (if not already covered under
 11 1502.14(f)).” 40 C.F.R. § 1502.16(h). As noted herein, that did not occur in this case.

12 214. NEPA requires that DOI/BLM review mitigation measures as part of the NEPA process
 13 -- not in some future decision shielded from public review. *Id.*

14
 15 Putting off an analysis of possible mitigation measures until after a project has
 16 been approved, and after adverse environmental impacts have started to occur,
 17 runs counter to NEPA’s goal of ensuring informed agency decisionmaking. *See*
 18 *Robertson*, 490 U.S. at 353, 109 S.Ct. 1835 (“Without [a reasonably complete]
 discussion [of mitigation], neither the agency nor other interested groups and
 individuals can properly evaluate the severity of the adverse effects.”).

19 Great Basin Resource Watch, 844 F.3d at 1107.

20 215. BLM has the duty under FLPMA to mitigate all adverse impacts:

21 Although other Federal and State agencies regulate various aspects of mining
 22 under other statutes, BLM has its own responsibilities under FLPMA and the
 23 mining laws to protect the resources and values of the public lands from
 unnecessary or undue degradation.

24 . . .
 25 [S]ections 302(b) and 303(a) of FLPMA, 43 U.S.C. 1732(b) and 1733(a), and the
 26 mining laws, 30 U.S.C. 22, provide the BLM with the authority to require
 27 mitigation. **Mitigation measures fall squarely within the actions the Secretary
 can direct to prevent unnecessary or undue degradation of the public lands.
 An impact that can be mitigated, but is not, is clearly unnecessary.**

28 65 Fed.Reg. 69998, 70053 (November 21, 2000)(Preamble to BLM’s 43 C.F.R. Part
 3809 mining regulations)(emphasis added).

1 216. The FEIS and ROD do not contain the required analysis of mitigation measures for
2 the affected resources, nor a credible analysis of the effectiveness of these measures.

3 217. For the predicted groundwater pollution, as noted above, EPA found that the FEIS
4 lacked the required analysis:

5
6 While the Final EIS includes three conceptual options that have the potential to
7 mitigate antimony groundwater contamination (Appendix P Part 1 p. 154-159),
8 **the plans are not developed with an adequate level of detail to assess whether**
9 **or how groundwater quality downgradient from the pit would be effectively**
10 **mitigated.** In our comments on the Draft EIS, the EPA recommended more
detailed information about how effective these potential mitigation options could
be, and an evaluation of additional disturbance and impacts from implementing
the proposed mitigation options (40 CFR 1508.25(a)(1)(iii)).

11 EPA's Detailed Comments on FEIS at 1 (emphasis added).

12 218. EPA highlighted how BLM failed to respond to these serious concerns:

13 In response, the BLM stated that options for blending/discharge and active
14 treatment "have not been evaluated, and therefore may not be feasible for
consideration as mitigation for the Final EIS" (Appendix R p. R-180).

15 **Therefore, conclusions in the Final EIS that groundwater quality**
16 **management plans would "effectively mitigate impacts to groundwater**
quality downgradient from the pit" (p. 4-25) are not adequately supported.

17 *Id.*

18 219. EPA criticized BLM for failing to meet its environmental protection responsibilities
19 at the Mine: "**Without detailed information about mitigation and its efficacy, it is**
20 **unclear how a Record of Decision could state that all practicable means to avoid**
21 **or minimize environmental harm from the alternative selected have been**
22 **adopted."** *Id.* (emphasis added).

23
24 220. EPA also noted that LNC recently submitted a new mitigation plan that purportedly
25 reduces the ground water pollution – but that this plan was submitted long after the
26 NEPA public review process ended. "This revised monitoring plan includes a new
27 potential future mitigation option for groundwater quality impacts **that was not**
28 **discussed in the Draft or Final EIS."** *Id.* (emphasis added).

1 221. The FEIS also does not include any plans for public review regarding the needed
2 mitigation for the long-term treatment of the toxic seepage from the tailings facility,
3 as noted above.

4
5 222. Under NEPA, BLM cannot rely on purported mitigation measures to comply with
6 environmental protection standards when those mitigation measures have not been
7 subject to public review. “[A] post-EIS analysis – conducted without any input from
8 the public – cannot cure deficiencies in an EIS.” Great Basin Resource Watch, 844
9 F.3d at 1104.

10
11 223. Likewise, EPA specifically criticized the lack of such analysis for wildlife mitigation,
12 for instance:

13 **The Final EIS did not include a mitigation, monitoring, and adaptive**
14 **management plan for wildlife mitigation measures** SSS-1 to SSS-9 (p. 4-62 to
15 4-65). Although the updated Plan of Operations included a monitoring plan in
16 Appendix H, this did not include information on these measures. The EPA is
17 concerned that several of these measures require additional monitoring and
18 adaptive management to ensure mitigation success, such as creating the artificial
19 burrowing system for western burrowing owls (SSS-7; p. 4-64, 65) and roosting
20 bat habitat (SSS-9; p. 4-65).

21 EPA Detailed Comments on FEIS, at 2 (emphasis added).

22 224. The FEIS also assumes that compensatory mitigation will fully address impacts to
23 sage-grouse, even though LNC has purchased no permanent conservation credits to
24 offset permanent dewatering from the mine that will affect water resources sage-
25 grouse need for brood-rearing and summer habitats.

26 **Failure to Determine the Project’s Reclamation Costs and Financial Assurances**

27 225. In the ROD, BLM approved LNC’s Plan of Operation for the Projects (both the Mine
28 and the Exploration project) without determining the reclamation and related costs as
required by BLM’s FLPMA mining regulations.

1 226. BLM mining regulations require that all activities in the Plan of Operations be
2 covered by a “financial guarantee” that “must cover the estimated cost as if BLM
3 were to contract with the third party to reclaim your operations according to the
4 reclamation plan, including construction and maintenance costs for any treatment
5 facilities necessary to meet Federal and State environmental standards.” 43 C.F.R. §
6 3809.552(a).
7

8
9 227. The “reclamation cost determination” made by BLM is the amount of monies that
10 must be covered by the financial guarantee. 43 C.F.R. § 3809.554. Financial
11 guarantee instruments can take the form of “surety bonds,” cash, “irrevocable letters
12 of credit from a bank or financial institution,” “certificates of deposit or savings
13 accounts,” “negotiable United States Government, State and Municipal securities or
14 bonds,” “Investment-grade rated securities,” or insurance with a “rating of ‘superior’
15 or an equivalent from a nationally recognized insurance rating service.” 43 C.F.R. §
16 3809.555(a)-(f).

17 228. The required Reclamation Cost Estimate (RCE) submitted by the operator forms the
18 basis for the reclamation cost determination made by BLM. “The BLM FO [Field
19 Office] or other delegated AO [Authorized Officer] issues a written determination of
20 the named operator’s reclamation cost estimate (RCE) and required bond amount for
21 existing and/or proposed disturbance on the specified operations.” BLM Surface
22 Management Bond Processing Handbook, H-3809-2, at II-1.

23 229. BLM’s “Surface Management Handbook, H-3809-1” which governs the review and
24 approval of mining operations, requires that the reclamation cost determination be
25 made and established at the time the ROD approving the mining plan is issued.
26

27 A decision approving a Plan of Operations and stating the conditions of approval
28 must be sent to the operator by certified mail, return receipt requested. **The decision must state the estimated reclamation cost determination and the financial guarantee amount.** The decision must also remind the operator that

1 surface disturbing activity cannot begin until the financial guarantee has been
2 accepted and obligated by the BLM.

3 BLM Handbook H-3809-1, at 4-45 (emphasis added).

4 230. In addition, due to the need to treat the contaminated water releases from the Project,
5 from both the mine pit and the tailings, BLM is required to establish a Long-Term
6 Funding Mechanism for the Project. *See* BLM Guidelines for Establishing a Long
7 Term Funding Mechanism (LTFM); 43 C.F.R. § 3809.552(c). “[Y]ou must establish
8 a trust fund or other funding mechanism available to BLM to ensure the continuation
9 of long-term treatment to achieve water quality standards and for other long term,
10 post-mining maintenance requirements. The funding must be adequate to provide for
11 construction, long-term operation, maintenance, or replacement of any treatment
12 facilities and infrastructure, for as long as the treatment and facilities are needed after
13 mine closure. BLM may identify the need for a trust fund or other funding
14 mechanism during plan review or later.” 43 C.F.R. § 3809.552(c).

15 231. Despite this, the ROD does not contain the required reclamation cost determinations,
16 including the LTFM, for the operations approved in the ROD.

17 232. The FEIS contains the Reclamation Cost Estimate (RCE) for the “Thacker North
18 South Exploration Project.” FEIS Appendix B. But, critically, neither the ROD nor
19 the FEIS mention the RCE for the much larger and extensive Mine Project.

20 233. Although the company acknowledged that the RCE was required, it admitted that
21 none was submitted:

22
23 Per 43 CFR 3809 and NAC 519A.365, operators are required to provide the BLM
24 and NDEP with a Reclamation Cost Estimate. **The Reclamation Cost Estimate**
25 **will be prepared at a later date** when the Plan review and approval process has
26 progressed to the point where the BLM, NDEP, and LNC (the operator) can
27 anticipate what the approved Plan might look like. Per 43 CFR 3809.401(d), the
28 operator will submit the Reclamation Cost Estimate during the appropriate time
during the Plan review and approval process.

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LNC mine plan, Appendix J (emphasis added).

https://eplanning.blm.gov/public_projects/1503166/200352542/20023464/250029668/Appendix%20J%20Insert_508.pdf

234. The BLM in Nevada regularly follows BLM’s reclamation financial requirements for the determination of the reclamation cost estimate in decisions approving mining Plans of Operations. *See* Decision approving the Prospect Mountain Mine Project southwest of Eureka. In approving the Plan of Operations for that mine, BLM stated:

AMOUNT OF FINANCIAL GUARANTEE

This office has determined that the amount of \$489,175 is sufficient to meet all anticipated reclamation requirements for the Project.

...

The operator must submit an acceptable financial guarantee in the amount of \$489,175 to the Bureau of Land Management.

July 12, 2019 “Decision, Plan of Operations Approval, Determination of Required Financial Guarantee Amount [Prospect Mountain Project],” at 3-4.

https://eplanning.blm.gov/epl-front-office/Projects/nepa/108000/176864/215537/20190712_Gullsil_ProspectMtn_DecisionRecord.pdf (viewed February 8, 2021).

235. Yet as noted above, BLM failed to make these required determinations in the ROD for the Project, which approved the two Plans of Operations for the mine and exploration project.

236. For another large mine in Nevada, BLM’s ROD approving the plan of operations established the reclamation bond and LTFM. For the Mount Hope Project, BLM accepted the company’s RCE and the 2012 ROD approving that company’s Plan of Operations included the required reclamation cost determination. The 2012 for the Mount Hope Project, the BLM ROD “determined that the required financial guarantee amount is hereby set at \$73,360,363 for the 7,992 acres of surface disturbance on public and private lands associated with the first three years of operations for the Project (NVN-082096), as described in the Plan. The proponent

1 must provide a financial guarantee in this amount using one or more of the acceptable
2 financial guarantee instruments listed under 43 CFR § 3809.55.” BLM Mount Hope
3 2012 ROD at 30.

4 237. In addition, BLM’s Mount Hope 2012 ROD established a Long-Term Funding
5 Mechanism for the Project:

6
7 Pursuant to the Guidelines for Establishing a Long Term Funding Mechanism
8 (LTFM) and in accordance with 43 CFR § 3809.552(c), the BLM has determined
9 that a LTFM will be required for post-reclamation obligations (including long-
term monitoring and mitigation) associated with the closure process of the Mount
Hope Project. ...

10 The LTFM will include the establishment of a trust fund that is implemented
11 through *The Mt. Hope Project Long-Term Irrevocable Trust* and the *Mt. Hope*
12 *Project Long-Term Trust Agreement* (collectively “Agreements”). EML will fund
13 the initial amount of the trust fund in the amount of \$271,912. The initial funding
14 amount was calculated based on the projected costs of implementing the above-
15 described post-reclamation requirement for approximately 500 years. Total cost
16 of the mitigation and monitoring over the 500 year period is anticipated to be
\$83,202,396. The creation and funding of the LTFM does not preclude BLM
from requiring further reclamation, monitoring or mitigation pursuant to 43 CFR
§ 3809 should conditions warrant.

17 Funding requirements are currently being finalized and, upon acceptance by the
18 BLM, all funding mechanisms must be put in place in accordance with the
19 Agreements. Documentation of such funding shall be provided to the Bureau of
Land Management, Nevada State Office, Branch of Minerals Adjudication, 1340
Financial Blvd., Reno, NV 89502-7147.

20 BLM 2012 ROD for the Mount Hope Project at 31.

21 238. Yet, at Thacker Pass, BLM failed to analyze or include any such financial
22 requirements for public review, or as part of the FEIS or ROD.

23 239. EPA specifically faulted BLM for failing to comply with the reclamation bonding
24 requirements, especially given the need for long-term mitigation and treatment of the
25 water pollution from the Thacker Pass Project:

26
27 **Funding for Long-Term Post-Closure Water Management**

28 The EPA has expressed concerns through the NEPA process regarding the
adequacy of funding for long-term post-closure management. Given that
management of antimony would be required in perpetuity, it is important to
demonstrate that sufficient financial resources would be available to ensure

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successful implementation of post-closure WPCP monitoring and mitigation commitments. It is important to evaluate the likelihood that required mitigation will be implemented, and we believe that financial assurance is a critical tool for this evaluation.

BLM’s Guidelines for Establishing a Long-Term Funding Mechanism states that if an EIS identifies water quality issues requiring long-term treatment that the “district/field manager must require a financial guarantee to address those PRO [post-reclamation obligations].”³ Therefore, it remains unclear why an LTFM has not been disclosed, discussed, or evaluated in the NEPA process. We strongly encourage the BLM to discuss the need for an LTFM in the ROD.

EPA Detailed Comments at 2-3.

240. EPA also requested that the ROD specify these financial requirements:

Recommendations for the ROD:

Commit to an LTFM if required by the activities and conditions in the WPCP to monitor and mitigate for antimony groundwater contamination in perpetuity. Determine an appropriate level of funding for post-closure management monitoring and disclose the specific mechanism that would be established for the preferred alternative. Analyze the adequacy of the disclosed funding amount and funding mechanism to ensure that all financial obligations would be met and all required mitigation will be completed. Include projected costs for any post-closure activities and discuss whether the BLM would impose a requirement on the mine operator, LNC, to establish a trust fund or other funding mechanism to ensure post-closure care, in accordance with 43 CFR 3809 and BLM’s H-3809-1 Surface Management Handbook.

Id. at 3.

241. Despite this, BLM refused to include any information on the reclamation bond or LTFM in the ROD approving the Project.

242. BLM’s failure to include the reclamation cost bond/financial guarantee amount for either the Plans of Operations for the Mine or the Exploration violates FLPMA and its implementing regulations, as well as the public comment and review requirements of NEPA.

CLAIMS FOR RELIEF

FIRST CAUSE OF ACTION

Violation of FLPMA – Violation of the Wildlife Provisions of the Controlling Resource Management Plans

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- 6 243. The allegations in the previous paragraphs are reasserted as if fully stated herein.
- 7 244. The ROD, FEIS and Project approvals do not comply with the Winnemucca RMP and
- 8 the applicable RMP for protection of the Greater Sage Grouse as required by
- 9 FLPMA. In particular, the ROD will allow for destructive development in sage-
- 10 grouse habitats that exceeds the project-level three percent disturbance cap, without
- 11 applying the criteria required to deviate from that cap, and without applying noise
- 12 limits, lek buffers, or required design features, or fully offsetting impacts to sage-
- 13 grouse through compensatory mitigation.
- 14 245. Instead, BLM based its review and approval of the Project on an erroneous legal
- 15 assumption that LNC had statutory rights to conduct all of their proposed operations,
- 16 including the permanent use and occupation of public lands for the waste rock and
- 17 tailings dumps, without the necessary factual evidence to support the establishment of
- 18 those rights, thus failing to properly review and regulate the Project under FLPMA to
- 19 protect public resources and the public interest, in violation of FLPMA and its
- 20 implementing regulations.
- 21 246. BLM's actions and omissions noted above regarding its review and approval of the
- 22 Thacker Pass Project violate FLPMA and its implementing regulations. BLM's
- 23 actions and omissions in reviewing and approving the Project are arbitrary,
- 24 capricious, an abuse of discretion, not in accordance with law, without observance of
- 25 procedure required by law, and in excess of statutory jurisdiction, authority, or
- 26 limitations, within the meaning of the judicial review provisions of the APA. 5 U.S.C.
- 27 §§ 701-706.
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SECOND CAUSE OF ACTION

Violation of FLPMA – Violation of the Visual Resource Provisions of the Controlling Resource Management Plan

247. The allegations in the previous paragraphs are reasserted as if fully stated herein.
248. The ROD, FEIS and Project approvals violate the Winnemucca RMP’s Visual Resource (VRM) requirements as required by FLPMA.
249. BLM would have needed to complete an RMP Amendment to legally move forward with the Project but did not.
250. Instead, BLM based its review and approval of the Project on an erroneous legal assumption that LNC had statutory rights to conduct all of their proposed operations, including the permanent use and occupation of public lands for the waste rock and tailings dumps, without the necessary factual evidence to support the establishment of those rights, thus failing to properly review and regulate the Project under FLPMA to protect public resources and the public interest, in violation of FLPMA and its implementing regulations.
251. BLM’s actions and omissions noted above regarding its review and approval of the Thacker Pass Project violate FLPMA and its implementing regulations. BLM’s actions and omissions in reviewing and approving the Project are arbitrary, capricious, an abuse of discretion, not in accordance with law, without observance of procedure required by law, and in excess of statutory jurisdiction, authority, or limitations, within the meaning of the judicial review provisions of the APA. 5 U.S.C. §§ 701-706.

THIRD CAUSE OF ACTION

Violation of FLPMA and NEPA – Review and Approval of the Project Based On Unsupported Assumptions of LNC’s “Valid Existing Rights” Under the 1872 Mining Law

252. The allegations in the previous paragraphs are reasserted as if fully stated herein.

1 253. BLM based its review and approval of the Project on an erroneous legal assumption
2 that LNC had statutory “valid existing rights” to conduct all of their proposed
3 operations, including the permanent use and occupation of public lands for the waste
4 rock and tailings dumps, without the necessary factual evidence to support the
5 establishment of those rights, thus failing to properly review and regulate the Project
6 under FLPMA to protect public resources and the public interest, in violation of
7 FLPMA, NEPA, and their implementing regulations.

8 254. BLM’s actions and omissions noted above regarding its review and approval of the
9 Thacker Pass Project violate FLPMA and its implementing regulations. BLM’s
10 actions and omissions in reviewing and approving the Project are arbitrary,
11 capricious, an abuse of discretion, not in accordance with law, without observance of
12 procedure required by law, and in excess of statutory jurisdiction, authority, or
13 limitations, within the meaning of the judicial review provisions of the APA. 5 U.S.C.
14 §§ 701-706.
15

16 FOURTH CAUSE OF ACTION

17 **Violation of NEPA and FLPMA – Failure to Adequately Analyze Mitigation Measures and**
18 **Their Effectiveness**

19 255. The allegations in the previous paragraphs are reasserted as if fully stated herein.

20 256. In the ROD and FEIS, BLM failed to adequately and accurately analyze mitigation
21 measures, and the effectiveness of those measures, as required by NEPA and
22 FLPMA.

23 257. BLM’s actions and omissions noted above regarding its review and approval of the
24 Project, violate NEPA, FLPMA and their implementing regulations. BLM’s actions
25 and omissions in reviewing and approving the Project are arbitrary, capricious, an
26 abuse of discretion, not in accordance with law, without observance of procedure
27 required by law, and in excess of statutory jurisdiction, authority, or limitations,
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1 within the meaning of the judicial review provisions of the APA. 5 U.S.C. §§ 701-
2 706.

3 FIFTH CAUSE OF ACTION

4 **Violation of NEPA and FLPMA – Failure to Adequately Analyze Direct, Indirect, and**
5 **Cumulative Impacts**

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7 258. The allegations in the previous paragraphs are reasserted as if fully stated herein.

8 259. In the FEIS and ROD, BLM failed to adequately and accurately analyze the Project’s
9 direct, indirect and cumulative impacts to wildlife, air and water resources, and all
10 other potentially affected resources, as required by NEPA and FLPMA.

11 260. BLM’s actions and omissions noted above regarding its review and approval of the
12 Project, violate NEPA, FLPMA, and their implementing regulations. BLM’s actions
13 and omissions in reviewing and approving the Project are arbitrary, capricious, an
14 abuse of discretion, not in accordance with law, without observance of procedure
15 required by law, and in excess of statutory jurisdiction, authority, or limitations,
16 within the meaning of the judicial review provisions of the APA. 5 U.S.C. §§ 701-
17 706.

18 SIXTH CAUSE OF ACTION

19 **Violation of NEPA and FLPMA – Failure to Adequately Analyze Background/Baseline**
20 **Conditions**

21
22 261. The allegations in the previous paragraphs are reasserted as if fully stated herein.

23 262. In the FEIS and ROD, BLM failed to adequately and accurately analyze the
24 background/baseline conditions of resources that will be potentially affected by the
25 Project, including wildlife and water and air quality, as required by NEPA and
26 FLPMA.

27 263. BLM’s actions and omissions noted above regarding its review and approval of the
28 Project, violate NEPA, FLPMA, and their implementing regulations. BLM’s actions
and omissions in reviewing and approving the Project are arbitrary, capricious, an

1 abuse of discretion, not in accordance with law, without observance of procedure
2 required by law, and in excess of statutory jurisdiction, authority, or limitations,
3 within the meaning of the judicial review provisions of the APA. 5 U.S.C. §§ 701-
4 706.

5 SEVENTH CAUSE OF ACTION

6 **Violations of NEPA and FLPMA – Failure to Ensure Compliance with Air and Water**
7 **Quality Standards and Protect Public Resources**

8
9 264. The allegations in the previous paragraphs are reasserted as if fully stated herein.

10 265. BLM’s determination that the Project will comply with all applicable air and water
11 quality standards, based on an erroneous and factually-deficient NEPA analysis was
12 arbitrary and capricious, made without the consideration of all relevant factors, and
13 violates FLPMA and its implementing regulations.

14 266. BLM’s actions and omissions in reviewing and approving the Project are arbitrary,
15 capricious, an abuse of discretion, not in accordance with law, without observance of
16 procedure required by law, and in excess of statutory jurisdiction, authority, or
17 limitations, within the meaning of the judicial review provisions of the APA. 5 U.S.C.
18 §§ 701-706.

19 EIGHTH CAUSE OF ACTION

20 **Violation of FLPMA and NEPA – Failure to Determine Reclamation Costs and Related**
21 **Financial Assurances**

22 267. The allegations in the previous paragraphs are reasserted as if fully stated herein.

23 268. BLM’s failure to determine the amount of the Project’s full reclamation and related
24 costs, as well as the Long Term Funding Mechanism (LTFM), as part of the ROD’s
25 approval of the Plan of Operation violates FLPMA its implementing regulations.

26 269. BLM’s failure to determine the amount of the Project’s full reclamation and related
27 costs as part of the ROD’s approval of the mining Plan violates FLPMA, NEPA, and
28 their implementing regulations.

1 270. DOI/BLM’s actions and omissions in reviewing and approving the Project and ROWs
2 are arbitrary, capricious, an abuse of discretion, not in accordance with law, without
3 observance of procedure required by law, and in excess of statutory jurisdiction,
4 authority, or limitations, within the meaning of the judicial review provisions of the
5 APA. 5 U.S.C. §§ 701-706.

6 NINTH CAUSE OF ACTION

7 Violation of FLPMA – Authorizing Unnecessary or Undue Degradation

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9 271. The allegations in the previous paragraphs are reasserted as if fully stated herein.

10 272. The violations of NEPA, FLPMA, and other laws/regulations noted in this Complaint
11 constitute “unnecessary or undue degradation” (UUD) that FLPMA prohibits.
12 BLM’s failure to protect public resources as detailed above also violates the UUD
13 standard.

14
15 273. BLM’s actions and omissions noted above regarding its review and approval of the
16 Thacker Pass Project, violate NEPA, FLPMA and its implementing regulations.

17 274. BLM’s actions and omissions in reviewing and approving the Project are arbitrary,
18 capricious, an abuse of discretion, not in accordance with law, without observance of
19 procedure required by law, and in excess of statutory jurisdiction, authority, or
20 limitations, within the meaning of the judicial review provisions of the APA. 5 U.S.C.
21 §§ 701-70

22
23 REQUEST FOR RELIEF

24 **WHEREFORE**, Plaintiffs pray that this Court:

- 25
26 A. Declare that BLM’s actions, omissions, and decisions reviewing and approving the
27 Thacker Pass Project (including the Mine and Exploration Projects) and related actions
28 violate NEPA, FLPMA, and their implementing regulations;
- B. Pursuant to the APA, set aside and Vacate the ROD, FEIS, and Project approvals.

- 1 C. Enjoin Defendants, their agents, servants, employees, and all others acting in concert with
2 them, or subject to their authority or control, from proceeding with any aspect of the
3 Thacker Pass Project, pending full compliance with the requirements of federal law;
4 D. Grant Plaintiffs their costs and reasonable attorneys fees incurred in bringing this action,
5 pursuant to the Equal Access to Justice Act (EAJA), 28 U.S.C. §2412 et seq., and any
6 other applicable statutory or equitable principles; and
7 E. Grant such further relief this court deems just and proper.
8

9
10 Respectfully submitted this 26th day of February, 2021.

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