

INTERDISCIPLINARY TEAM ANALYSIS RECORD CHECKLIST

Project Title: Keystone Mine, Plan of Operations

NEPA Log Number:

File/Serial Number:

Project Lead: Randall Porter

DETERMINATION OF STAFF: (Choose one of the following abbreviated options for the left column)

NP = not present in the area impacted by the proposed or alternative actions

NI = present, *but not affected to a degree that detailed analysis is required*

PI = present with potential for significant impact analyzed in detail in the EA; or identified in a DNA as requiring further analysis

NC = (DNAs only) actions and impacts not changed from those disclosed in the existing NEPA documents cited in Section C of the DNA form.

Determination	Resource	Rationale for Determination	Signature	Date
PI	Air Quality	<p>The project area is within the Great Basin Valleys Air Basin. The Great Basin Valleys Air Basin is either unclassified or in attainment for federal air quality standards with the exception of PM₁₀ in the Owen's Valley. The Great Basin Valleys is in non-attainment for state air quality standards for ozone and PM₁₀ (http://www.arb.ca.gov/desig/adm/adm.htm accessed July 31, 2016).</p> <p>The operator would adhere to appropriate applicant-committed environmental protection measures to minimize combustion and fugitive dust emissions. The operator would obtain the required permits or authorizations from the Great Basin Unified Air Pollution Control District (GBUAPCD) as necessary.</p> <p>Due to the Proposed Action's location in relation to Death Valley National Park, this resource has been brought forward for analysis.</p>	Maggie Marston	
NP	Area of Critical Environmental Concern	The project area does not overlap with any Areas of Critical Environmental Concern.	Randall Porter	
PI	Cultural Resources	A cultural survey has been completed for the proposed disturbance. As described under the applicant-committed environmental protection measures, cultural resources, if present, would be avoided. This resource has been brought forward for analysis.	Donald Storm	
NI	Greenhouse Gas (GHG) Emissions	The Proposed Action would not impact or contribute substantially to increase GHG emissions and does not meet the requirements for greenhouse gas reporting (https://www.epa.gov/ghgreporting). The limited amount of pollutants resulting from the drilling exploration would not impede the BLM and the State of California from meeting the air quality objectives or reductions in GHG emissions.	Maggie Marston	
NP	Environmental Justice	According to the EPA EJScreen mapping tool, the census block group has been categorized as having a minority population of 36 percent and a low-income population (less than two times the poverty level) of 35 percent. No minority or economically disadvantaged communities are present which could be affected by the Proposed Action. (https://ejscreen.epa.gov/mapper/index.html?wherestr=california accessed February 2017)	Bob Pawelek	
NP	Farmlands (Prime or Unique)	No farmlands are identified in this area based upon review of Ridgecrest Field Office planning documents, CDCA, and NEMO.	Randall Porter	
NP	Floodplains	No floodplains are identified as being present with the project area based upon review of Ridgecrest Field Office planning documents, CDCA, and NEMO.	Randall Porter	

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NI	Fuels / Fire Management	The risk and consequences of fires in the area do not necessitate detailed analysis.	Alexander Neibergs	
NI	Geology / Mineral Resources/ Energy Production	The Proposed Action would allow for quantitative sampling and mapping of mineralization. The removal of drilling samples would have no measurable effect on whatever mineral deposit may be present.	Randall Porter	
NI	Invasive Plants / Noxious Weeds	No noxious weeds or non-native species have been identified as present within the proposed disturbance area. Impacts to this resource do not require detailed analysis.	Alexander Neibergs	
NI	Lands / Access	Access to the area would be along existing roads. No conflicts with other land uses in the area have been identified.	Craig Beck	
NI	Livestock Grazing	Due to the small size of the Proposed Action and its location on existing disturbance, the number of available AUMs would not be affected.	Alexander Neibergs	
NI	Native American Religious Concerns	Consultation efforts are on-going through the Ridgecrest Field Office.	Donald Storm	
NI	Paleontology	The site has very low potential for occurrence of paleontological resources and a negligible potential to disturb paleontological resources. A detailed analysis of impacts is not necessary.	Randall Porter	
NI	Rangeland Health Standards and Guidelines	The Proposed Action would take place on existing disturbance. Impacts to rangeland health would be negligible and do not necessitate detailed analysis.	Alexander Neibergs	
PI	Recreation	Recreation in the area consists primarily of off-highway vehicle use of the Goler Wash Road as well as hiking and other back country experiences. The Proposed Action could impact the recreational experience. Impacts to this resource have been carried forward for detailed analysis.	Craig Beck and Marty Dickes	
NI	Socio-economics	The local economy would be positively affected by the Proposed Action. The degree would be negligible and does not necessitate additional analysis.	Bob Pawelek	
NI	Soils	Soils in the area are shallow and rocky, consisting of colluvium. The presence of O and A soil layers is minimal to non-existent. Impacts to soils resulting from blading and overland travel have already occurred on the roads and pads. No additional impacts are anticipated.	Maggie Marston	
PI	Special Status Animal Species other than USFWS candidate or listed species e.g. Migratory birds.	Special status species may be located in and around the project area. The Proposed Action may affect their presence, habitat, or use of the area. Impacts to this resource have been carried forward for analysis.	Caroline Woods	
NP	Special Status Plant Species other than USFWS candidate or listed species	No special status species plant species were located near the Project. Since activities will occur on existing disturbance, impacts to special status plant species are not anticipated to occur.	Caroline Woods	
NI	Threatened, Endangered or Candidate Animal Species	No threatened, endangered, or proposed for listing animal have been identified in the project area. However, a desert tortoise has been sighted at the mouth of the canyon on the access route, therefore USFWS was consulted and stipulations have been added.	Caroline Woods	

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NP	Threatened, Endangered or Candidate Plant Species	No threatened, endangered, or proposed for listing plant species have been identified within or near the project area. Impacts to these species are unlikely.	Caroline Woods	
NI	Vegetation	The Proposed Action would occur on existing disturbance. No impacts to vegetation are anticipated.	Caroline Woods	
NI	Visual Resources	Impacts to Visual Resources are anticipated to be in accordance to previously authorized activities.	Tim Fisher	
NI	Wastes (hazardous or solid)	<p>No potentially harmful materials would be left on, or in the vicinity of the project area. No chemicals subject to SARA Title III in amounts greater than 10,000 pounds would be used. No extremely hazardous substances as defined in 40 CFR § 355 in threshold planning quantities would be used. Solid waste generated from the project area would be properly disposed at an approved landfill or recycled when possible.</p> <p>Water left in water tanks or trucks at the cessation of exploration would be either trucked out or left to evaporate in the sumps. Given the applicant-committed environmental protection measures, potential impacts related to solid and hazardous wastes are considered minor and not to a degree necessitating additional analysis.</p>	Randy Porter	
PI	Water and Related Resources within Death Valley National Park	Water would be piped from existing infrastructure at Sourdough Springs within the Death Valley National Park boundary to a water tank at the base of the Keystone Mine. The California State Water Rights Board License for Diversion and Use of Water 4716 is registered to the Keystone Mining Company. Impacts to these resources have been carried forward for analysis.	NPS Personnel	
NI	Water Quality (surface / ground)	<p>Drilling proposed under the Proposed Action is not anticipated to encounter groundwater. Water used for drilling would be obtained either offsite and transported to the location or would be piped from Sourdough Spring.</p> <p>Drill hole plugging procedures described in the Plan are deemed sufficient to prevent unnecessary or undue degradation of water resources. If water is encountered, drill hole plugging will be carried out in accordance with state and federal requirements. Potential impacts to groundwater are not anticipated to be to a degree necessitating detailed analysis.</p> <p>The 1981 Plan includes above-ground water conveyance from Sourdough Spring to the original Lotus Mine location at the base of the Keystone Mine maintenance road. A pipeline runs alongside the Goler Wash road roadbed so as to avoid vehicular damage. The Keystone Mine water rights to Sourdough Spring date from 1941 under California State Water Rights Board License for Diversion and Use of Water 4716. The license limits water rights to 470 gallons per day.</p> <p>Erosion and sedimentation may occur resulting from precipitation events on disturbed lands. Surface flows may carry exposed sediments downgradient of their origin. No surface water bodies are located in the vicinity of the project area; impacts to surface water bodies are not anticipated. Flows resulting from precipitation events would be short in duration and likely intense. Increased sedimentation resulting from disturbance areas would negligible in relation to the erosive nature of the surroundings and environmental protection measures related to sediment control and reclamation would minimize impacts. Potential impacts to surface waters are not anticipated to be to a degree necessitating detailed analysis.</p>	Lynnette Elser	

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NP	Waters of the U.S.	The Proposed Action is located within HUC 18090204, the Panamint Valley hydrographic basin. Drainages in the area flow into Panamint Valley which contains no Traditionally Navigable Waters or Relatively Permanent Waters. Panamint Valley is also an internally drained, closed basin. No impacts to Waters of the U.S. are anticipated to occur.	Lynnette Elser	
NP	Wetlands / Riparian Zones	No wetlands or riparian plant communities have been identified within or near the project area	Lynnette Elser	
NP	Wild and Scenic Rivers	No wild and scenic rivers are identified in or adjacent to the project area.	Martha Dickes	
NI	Wild Horses and Burros	Because of the small size of the Project and occurrence on previously disturbed land, wild horses and burros would not be affected to a degree necessitating additional analysis.	Alexander Neibergs	
NI	Wilderness	Although wilderness areas are present in the area, the Proposed Action would occur on previously disturbed land authorized for mining activities. Wilderness would not be affected to a degree necessitating additional analysis.	Martha Dickes	
PI	Lands with Wilderness Characteristics	Lands with Wilderness Characteristics are present near the project area which may be affected by the Proposed Action. Impacts to this resource have been carried forward for analysis.	Martha Dickes	

Final Review:

Reviewer Title	Signature	Date	Comments
NEPA / Environmental Coordinator			
Authorized Officer			